



International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



FINAL PROGRAM

XXVIth International Symposium on Cerebral Blood Flow,
Metabolism and Function
&

XIth International Conference on Quantification of
Brain Function with PET

Shanghai, China, May 20 - 23, 2013

Translational Neuroscience: from Molecules to Man

www.kenes.com/brain



TABLE OF CONTENTS

Welcome Letter	III
About ISCBFM	IV
Committees	V
General Information	VI
ISCBFM Meetings	VII
Social Events	VIII
Awards	IX
About Shanghai	X
Information for Presenters	XII

SUPPORTER AND EXHIBITOR INFORMATION

Acknowledgements	XV
Exhibition Floor Plan and List of Exhibitors	XVI
Supporter and Exhibitor Profiles	XVII

SCIENTIFIC PROGRAM

Monday, May 20, 2013	1
Tuesday, May 21, 2013	9
Wednesday, May 22, 2013	23
Thursday, May 23, 2013	37
Poster Session I - Tuesday, May 21, 2013	47
Poster Session II - Wednesday, May 22, 2013	77
Poster Session III - Thursday, May 23, 2013	109
BrainPET Poster Session – Tuesday - Wednesday, May 21-22, 2013	137
Index	149
Notes	



WELCOME LETTER

Dear Colleagues,

On behalf of the Local Organizing Committee, we welcome you to the XXVIth International Symposium on Cerebral Blood Flow, Metabolism and Function and the XIth International Conference on Quantification of Brain Function with PET that is being held in Shanghai, China from May 20-23, 2013.

Following the tradition of previous meetings, "Brain 2013" will cover numerous aspects within the area of neuroscience research, particularly those related to brain function and metabolism, cerebral blood flow, the function of the neurovascular unit and the blood-brain barrier, brain imaging, and cerebrovascular pathology. Our goal is to present the state-of-the art and novel discoveries that will increase our understanding of brain function under physiological and pathological conditions, and the most promising investigations in brain protection and neuroregeneration. Leading scientist in these fields, members of the International Society for Cerebral Blood Flow and Metabolism (ISCBFM) and other exceptional scientists will participate as in previous biannual meetings of the ISCBFM. The program committee has actively focused on creating an engaging scientific program that will be of interest to you.

Shanghai, the largest city in China, is home to over 20 million inhabitants. The city is a fascinating metropolis for tourists and is renowned for its historical landmarks such as the Bund and City God Temple and its modern Pudong skyline including the Oriental Pearl Tower.

Shanghai, whose meaning is "Upon-the-Sea", lives up to its legacy. With one of the busiest ports in the world, Shanghai is globally influenced and influential, as a center of commerce between the east and the west.

We welcome you here in Shanghai for Brain'13 & BrainPET'13 and wish you a wonderful stay.

A handwritten signature in blue ink, appearing to read 'Jun Chen', located below the first paragraph.

Jun Chen

Brain 2013 Conference Chairs

A handwritten signature in green ink, appearing to read 'Guo-Yuan Yang', located below the second paragraph.

Guo-Yuan Yang

ABOUT ISCBFM

The International Society for Cerebral Blood Flow and Metabolism (ISCBFM) is organized and operated exclusively for the purpose of promoting the advancement of education in science of cerebral blood flow and metabolism and related topics throughout the world.

The Society promotes research in cerebral blood flow, cerebral metabolism and cerebral functions in physiological and pathophysiological states. Interests of members in the Society range from the molecular and genomic mechanism of Ischemia through to the clinical investigators of cerebral blood flow and metabolism.

The Society hosts biennial meetings in various locations throughout Asia, Europe and North America. The International Symposium on Cerebral Blood Flow, Metabolism and Function (Brain) and the International Conference on Quantification of Brain Function with PET (BrainPET) are held jointly and bring together a diverse group of investigators for the exchange of scientific information on regulation of cerebral blood flow and metabolism. The International Symposium of Cerebral Blood Flow and Metabolism was first held in 1964, with subsequent meetings held approximately every two years. It wasn't until 1981, however, that the Society was formally established.

At the time of the establishment of the Society, the Journal of Cerebral Blood Flow and Metabolism, started publication and continues to be a highly respected and cited monthly publication. It is relevant to neurologists, neurochemists, psychologists, pharmacologists, physiologists, biochemists, anesthesiologists, neuroradiologists, neuropathologists and neuroscientists in general.

In addition to the biennial meetings and the Journal, the ISCBFM organizes "schools" to bring young and senior investigators together, and helps organize and run the Gordon Research Conference in Brain Energy Metabolism and Blood Flow.

ISCBFM Administrative Office

International Society for Cerebral Blood Flow and Metabolism (ISCBFM)

9650 Rockville Pike

Bethesda, MD 20814

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International Society for
Cerebral Blood Flow & Metabolism



COMMITTEES

ISCBFM OFFICERS

Richard J. Traystman, <i>USA</i>	(President)	Peter Herscovitch, <i>USA</i>	(Treasurer)
Koji Abe, <i>Japan</i>	(Past President)	Jun Chen, <i>USA</i>	(Treasurer Elect)
Edith Hamel, <i>Canada</i>	(President Elect)	Ulrich Dirnagl, <i>Germany</i>	(Editor)
Joseph C. LaManna, <i>USA</i>	(Secretary)	Martin Lauritzen, <i>Denmark</i>	(Editor)

SCIENTIFIC PROGRAM COMMITTEE

Eng Lo, <i>USA</i>	(Co-Chair)	Guo-Yuan Yang, <i>China</i>
Miguel Perez-Pinzon, <i>USA</i>	(Co-Chair)	Edith Hamel, <i>Canada</i>
Midori Yenari, <i>USA</i>	(Co-Chair)	Iwao Kanno, <i>Japan</i>
Jun Chen, <i>USA</i>		Joan Montaner, <i>Spain</i>
Thomas Davis, <i>USA</i>		Julie Price, <i>USA</i>
Rick Dijkhuizen, <i>The Netherlands</i>		Chris Schaffer, <i>USA</i>
Ulrich Dirnagl, <i>Germany</i>		Richard J. Traystman, <i>USA</i>
Qiang Dong, <i>China</i>		Berislav Zlokovic, <i>USA</i>

LOCAL ORGANIZING COMMITTEE

Conference Co-Chairs

Jun Chen, Fudan University & Guo-Yuan Yang, Shanghai Jiao Tong University

SENIOR ADVISORS

Kerong Dai, Shanghai Jiao Tong University & Xiongli Yang, Fudan University

COMMITTEE MEMBERS

Shengdi Chen, Shanghai Jiao Tong University

Qiang Dong, Fudan University

Tianming Gao, Southern Medical University

Fengping Huang, Shanghai Health Bureau

Xunming Ji, Capital Medical University

Biao Li, Shanghai Jiao Tong University

Lan Ma, Fudan University

Yin Mao, Fudan University

Baisha Tang, Central South University

Shanbao Tong, Shanghai Jiao Tong University

Wei Wang, Huazhong University of Science and Technology

Yongjun Wang, Capital Medical University

Lize Xiong, The 4th Military Medical University

Yun Xu, Nanjing University

JinSheng Zeng, Zhongshan University

Hong Zhang, Zhejiang University

Ping Zheng, Fudan University

GENERAL INFORMATION

VENUE

Shanghai International Convention Center
Oriental Riverside Hotel, 2727 Riverside Avenue, Pudong, Shanghai, 200120, China
Tel: + 86 21 50370000 | Web: www.shicc.net

LANGUAGE

The official language of the Symposium is English.

REGISTRATION DESK HOURS

Monday, May 20	08:00 – 19:00
Tuesday, May 21	07:00 – 19:00
Wednesday, May 22	08:00 – 18:30
Thursday, May 23	07:30 – 18:00

EXHIBITION HOURS

17:30 – 20:30
09:30 – 16:00
09:30 – 16:00
09:30 – 16:00

NAME BADGE

All participants are kindly requested to wear their name badges throughout the entire Symposium in order to gain admittance into the lecture halls and other scheduled activities.

CERTIFICATE OF ATTENDANCE

Certificates of Attendance for the Symposium will be available at the registration area from 13:00 on Wednesday, May 22, 2013. Participants should scan the barcode on their name badge at the station in the registration area in order to have their certificate printed.

COFFEE BREAKS & LUNCHES

Coffee, light refreshments and lunch will be served in the exhibition area during the hours indicated in the programme.

INTERNET STATIONS

Internet facilities are available free of charge in the exhibition area in operation with exhibition opening hours

CARING FOR THE ENVIRONMENT

ISCBFM and appointed conference organizer Kenes International are devoted to considering environmentally-friendly practice in all of our operations. Our responsibility to our Conference participants, staff, environment and society is paramount in all of our decisions, policies and practices.

Brain & BrainPET Symposium Secretariat
1-3, Rue de Chantepoulet, P.O. Box 1726, CH-1211, Geneva 1, Switzerland
Tel: +41 22 908 0488 | Fax: +41 22 906 9140
E-mail: brain@kenes.com | www.kenes.com/brain



ISCBFM MEETINGS

The following ISCBFM meetings will be held:

Tuesday, May 21

12:30 – 13:30 ISCBFM Board Meeting

By Invitation Only

Meeting Room E3

Wednesday, May 22

12:30 – 13:30 JCBFM Editorial Board Meeting

By Invitation Only

Meeting Room E3

Thursday, May 23

12:30 – 13:30 ISCBFM General Assembly

Yellow River Room

Thursday, May 23

18:00 ISCBFM Board Meeting

By Invitation Only

Meeting Room E3



SOCIAL EVENTS

WELCOME RECEPTION

Monday, May 20 from 19:00 – 20:30

All registered participants are invited to the ISCBFM Welcome Reception at the Symposium Venue

YOUNG INVESTIGATORS' PARTY

The Young Investigators' Party will take place on Tuesday, 21 May

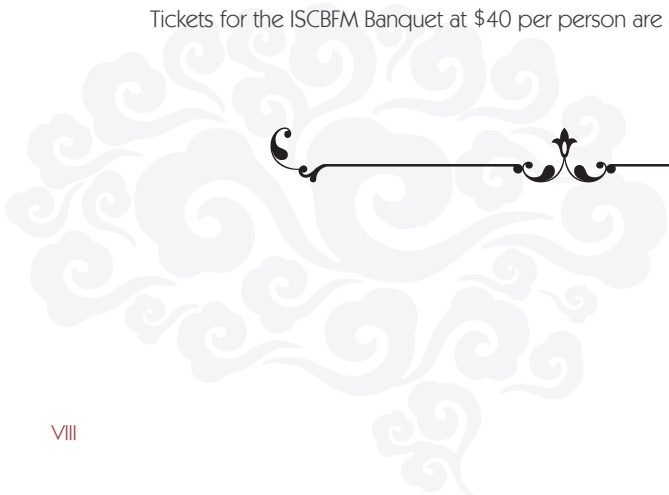
Tickets for the Young Investigators' Party at \$20 per person are available at the registration desk.

ISCBFM BANQUET

Wednesday, May 23 from 19:00

The ISCBFM Banquet will take place at the Seagull Restaurant.

Tickets for the ISCBFM Banquet at \$40 per person are available at the registration desk.





AWARDS

Lifetime Achievement Award

Prof Michael A. Moskowitz, *USA*

The Niels Lassen Award is presented by the International Society for Cerebral Blood Flow and Metabolism to recognize an outstanding scientific contribution made by a young scientist. The recipient is selected by the Program Committee based on an abstract submitted for presentation at the biennial meeting of the Society.

Niels Lassen Finalists 2013

Lili Cui, *USA*

Anders Ettrup, *Denmark*

Ai-Ling Lin, *USA*

Peiyong Li, *China*

Young Investigator Travel Bursary Recipients

Olayemi Adeoye, *USA*

Ana Antonic, *Australia*

Matilde Balbi, *Germany*

Gulnaz Begum, *USA*

Johannes Boltze,
Germany

Maria-Angeles Carrillo
Conesa, *France*

Vishal Chanana, *USA*

Monica Chau, *USA*

Ji Chen, *USA*

Qiang Chen, *USA*

Zhicai Chen, *China*

Charles H. Cohan, *USA*

Kurt Cornelius Donat,
Germany

Qinbo Deng, *Albania*

Sonia Duchemin, *Canada*

Katharina Eikermann-
Haerter, *USA*

Tracy D. Farr, *Germany*

Sjoerd J. Finnema,
Sweden

Anna Gaglianese, *USA*

Chao Gao, *China*

Huimin Gao, *China*

Bodil Gesslein, *Denmark*

Qi Guo, *UK*

Lijuan Han, *China*

Hanne D. Hansen,
Denmark

Xiaosong He, *China*

Zhenyi Hong, *China*

Clare Howarth, *UK*

Adam Institoris, *Hungary*

Yosuke Ishii, *Japan*

Makoto Isozaki, *Japan*

Xiaoyan Jiang, *China*

Jieqing Jiao, *UK*

Glen C. Jickling, *USA*

Jiali Jin, *China*

Yinchuan Jin, *South Korea*

Zheng Jing, *USA*

Yu-Chieh Jill Kao, *USA*

Yulia Konstantinovna
Komleva, *Russia*

Mariel Kozberg, *USA*

Hsin-Yi Lai, *USA*

Anne M. Landau, *Denmark*

Jin Hwan Lee, *USA*

Jonghwan Lee, *USA*

Arthur Leitzke, *USA*

Qiang Li, *China*

Qianyun Li, *China*

Shang Li, *China*

Yaning Li, *China*

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Xiaojie Lin, *China*

Barbara L. Lind, *Denmark*

Anu K. Lipsanen, *Finland*

Xiangrong Liu, *China*

Benjamin F. Menard,
France

Satoru Miyawaki, *Japan*

Kahlilia C. Morris-Blanco,
USA

Srinivasan V Narayanan,
USA

Hideaki Ono, *Japan*

Willem M. Otte, *The
Netherlands*

Yu Ouyang, *USA*

Michalis Papadakis, *UK*

Panayiota
Papadopoulos,
Canada

Hongjian Pu, *China*

Telma Alexandra
Quintela Paixao,
Portugal

Kim Radermacher,
The Netherlands

Nadege Roche-Labarbe,
France

Patrick T. Ronaldson, *USA*

Novel Rosell, *Spain*

Serres Sébastien, *UK*

Muneyuki Sakata, *Japan*

Christin Y. Sander, *USA*

Markus Savli, *Austria*

Jessica Seidel, *USA*

Zhao Shanshan, *China*

Yejie Shi, *USA*

Yen-Yu I. Shih, *USA*

Hao Shu, *USA*

Fahuan Song, *China*

Zhangjie Su, *UK*

Akira Sumiyoshi, *Japan*

Yu-Yo Sun, *USA*

Hiroyuki Takuwa, *Japan*

Yaohui Tang, *China*

Jonathan D. Teo, *Australia*

Nicole Angela Terpolilli,
Germany

Xavier Toussay, *Canada*

Renee J. Turner, *Australia*

Andri C. Tziortzi, *UK*

Kajo van der Marel, *The
Netherlands*

Geralda A. Van Tilborg,
The Netherlands

Jeroen Verhaeghe,
Belgium

Guohua Wang, *USA*

Rongliang Wang, *China*

Yongxiang Wang, *USA*

Hans F. Wehrl, *Germany*

Zheng Wei, *USA*

Robert Westphal, *UK*

Hsiao-Ying Wey, *USA*

Stephanie M Wolahan,
USA

Tine Wyckhuys, *Belgium*

Rong Xie, *China*

Gu Yong, *Hong Kong*

Hui Zhang, *China*

Jia Zhang, *China*

Nannan Zhang, *USA*

Zong-Yong Zhang, *China*

Haiping Zhao, *China*

Bastian Zinnhardt,
Germany

ABOUT SHANGHAI

Shanghai, the largest city in China, is home to over 20 million inhabitants. It is a multi-cultural metropolis with both modern and traditional Chinese features. The city is a fascinating hub for tourists and is renowned for its historical landmarks such as the Bund and City God Temple as well as its modern Pudong skyline including the Oriental Pearl Tower.

Shanghai, whose meaning is “Upon-the-Sea”, lives up to its legacy. With one of the busiest ports in the world, Shanghai is globally influenced and influential, as a centre of commerce between the east and the west. Because of Shanghai’s status as the cultural and economic centre of East Asia, it is popularly seen as the birthplace of everything considered modern in China. Asia looks to Shanghai as the trendsetter in all things cultural, including cuisine, art, cinema and fashion.

This city bristles with buildings, but it doesn’t boast must-see sights like New York or Rome. The joys of Shanghai, instead, are on the street level, where everyday life unfolds with bewildering variety.

5 THINGS TO DO IN SHANGHAI

Shanghai Maglev Train

The magnetic-levitation train ride from the international airport to the city is the perfect metaphor for Shanghai. The train reaches speeds of 430 km/hr (267 miles/hr), and the trip takes less than eight minutes. You’ll be feeling a bit whiplashed, but that sense of disorientation hints at the fast-paced city that lies ahead.



Shanghai Museum

A museum, where its shape mimics that of an ancient bronze cauldron, located on People's Square this museum is packed with fascinating riches. From calligraphy to jades and ceramics to bronzes there is more than enough striking treasures to set your eyes upon.

Dongtai Road Antique Market

Dongtai Road is the only remaining flea market in the Shanghai area that is still devoted to selling antiques. A renowned outdoor market full of character with 125 stalls selling everything from curios and trinkets to furniture items and various other props that are peddled as genuine. Also worth a visit to watch the locals loudly playing cards, or slapping Mahjong tiles on tabletops.

Yuyuan Garden

This Garden is believed to have been built in the Ming Dynasty, more than 400 years ago. The garden covers a significant space with cultural relics including century-old furniture, calligraphic and painting works of famous artists, clay sculptures and brick carvings. One of the famous attractions is the exquisite Jade Rock.

Oriental Pearl TV Tower

The 468 meter high tower has been the outstanding landmark of Shanghai since its completion in 1995. The sightseeing platform in the TV tower provides visitors with a panoramic view of the Bund and Pudong New area.



INFORMATION FOR PRESENTERS

All speakers presenting in sessions are kindly requested to submit their presentations to the Speakers' Ready Room at least 1 hour before the start of their session.

The Speakers' Ready Room is clearly marked at the venue and will be available for speakers every day throughout the Symposium.

If using a PowerPoint (or any other computer) presentation, please note you need to bring it on a CD, a DVD or on a "disk on key" Memory stick (using the USB port in the computer) and load it on one of the conference' computers in the Speakers' Ready Room, at least 1 hour before the start of the session.

Please note that the conference computers in the session halls are being supplied with Office 2010.

If combining video films with PowerPoint, please make sure to check it in the session hall where your lecture is taking place during a coffee or lunch break prior to your session, at least 30 minutes before the start of the session - *even after checking it in the Speakers' Ready Room.*

Alternatively you may supply your own laptop computer. In such a case please confirm that it has a VGA socket for external signal and come to check it first in the Speakers' Ready Room as soon as you arrive and later on in the session hall where your lecture is taking place during the coffee or lunch break prior to your session, at least 30 minutes before the start of the session.

Important note for Macintosh users

In order to use MAC presentations on a PC compatible computer please note that you need to prepare it according to the instructions below, before bringing it to the Speakers' Ready Room:

1. Use a common font, such as Arial, Times New Roman, Verdana etc. (special fonts might be changed to a default font on a PowerPoint based PC).
2. Insert pictures as JPG files (and not TIF, PNG or PICT - these images will not be visible on a PowerPoint based PC).
3. Use a common movie format, such as AVI and WMV (MOV files from QuickTime will not be visible on a PowerPoint based PC).

Alternatively you may use your own Macintosh laptop computer. In such a case please confirm you provide it with a **VGA adaptor** for external signal and come to check it first in the Speakers' Ready Room as soon as you arrive and later on in the session hall where your lecture is taking place during the coffee or lunch break prior to your session, at least 30 minutes before the start of the session.

Please note that VHS Video projection, 35 mm' slide projection and Overhead projection (projection of transparencies) will not be available.



INFORMATION FOR POSTER PRESENTERS

Poster Presentations are an integral part of the Scientific Program and an invaluable opportunity for the exchange of ideas and updates on new research.

Brain Poster Presentations

Brain 2013 Poster Presentations will be on display in three 1-day sessions by topic.

Please refer to the Scientific Program for the exact date and poster board number.

Participants are requested to be present at their designated poster board(s) for informal discussion during morning and afternoon coffee /lunch breaks.

The Organising Committee will not be responsible for posters that are not removed by the end of the designated poster session.

Poster Session I - Tuesday, May 21, 2013

Posters should be mounted from 07:30 until 19:00

Poster Topics	Poster Board No.
Animal Models	1-37
Biomarkers	38-50
Blood-Brain Barrier	51-66
Brain Edema	67-76
Cardiac Arrest/Global Cerebral Ischemia	77-89
Cell Death/Survival	90-107
Cellular Mechanisms	108-117
Cerebral Hemorrhage/Subarachnoid Hemorrhage (SAH)/Vasospasm	118-151
Cerebral Metabolic Regulation	152-161
Cerebrovascular Regulation	162-193
Clinical Studies	194-221
CNS Immune Interactions	222-223
Hypoxia / Ischemia in the Developing Brain	224-240

Poster Session II - Wednesday, May 22, 2013

Posters should be mounted from 07:30 until 19:00

Poster Topics	Poster Board No.
CNS Repair and Regeneration	1-9
CNS Trauma	10-28
Co-morbidities and Aging	29-35
Endogenous Neuroprotection	36-41
Genetic and Epigenetic Factors	42-44
Glial Mechanisms	45-52
Imaging: CT/SPECT/PET	53-71
Imaging: MRI	72-121
Imaging: Optical	122-135
Imaging: Other	136-142
Ischemic stroke	143-251

Poster Session III - Thursday, May 23, 2013

Posters should be mounted from 07:30 until 17:30

Poster Topics	Poster Board No.
Mitochondria and other Organelles	1-6
Molecular Mechanisms	7-19
Neurogenesis, Angiogenesis, and Gliogenesis	20-29
Neuroinflammation	30-51
Neurological Diseases	52-72
Neuroprotection	73-134
Neurovascular Unit	135-144
Oxidative Mechanisms	145-149
Pharmacology and Therapeutics	150-166
Preconditioning and Post-Conditioning	167-182
Reperfusion	183
Stem Cells and Cell Therapy	184-207
Vascular Cognitive Impairment / Dementia	208-220
White Matter Injuries	221-225

BrainPET Poster Presentations

Brain PET Posters may be mounted on Monday, May 20 after 19:00 and will remain on display for 2 days: **Tuesday, May 21** and **Wednesday, May 22**.

Please refer to the Scientific Program for the poster board number.

BrainPET posters should be removed by the end of sessions on **Wednesday, May 22 (18:30)**.

The Organising Committee will not be responsible for posters that are not removed by the end of the poster session.



ACKNOWLEDGEMENTS

The organizing committee would like to thank the following companies for their generous support of this educational activity:

大会主办单位 (排名不分先后) (Host)

复旦大学, 上海交通大学

(Fudan University & Shanghai Jiao Tong University)

大会协办单位 (排名不分先后) (Co-Hosts)

上海交通大学医学院附属瑞金医院

(Ruijin Hospital, Shanghai Jiao Tong University School of Medicine)

复旦大学上海华山医院

(Shanghai Huashan Hospital, Fudan University)

首都医科大学宣武医院

(Beijing Xuanwu Hospital, Capital Medical University)

南京大学鼓楼医院

(Nanjing Drum Tower Hospital, Nanjing University Medical School)

泰山医学院附属医院暨脑科研究所

(Affiliated Hospital & Brain Institute, Taishan Medical University)

第四军医大学 西京医院

(Xijing Hospital, The Fourth Military Medical University)

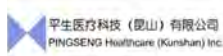
复旦大学医学神经生物学国家重点实验室和脑科学研究院

(State Key Laboratory of Medical Neurobiology and Institute of Brain Sciences, Fudan University)

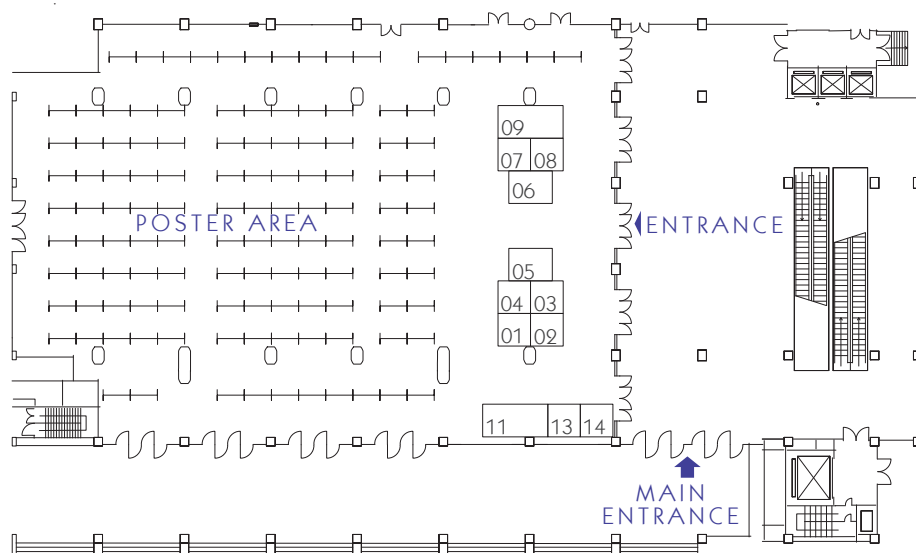
上海交通大学Med-X研究院

(Med-X Research Institute, Shanghai Jiao Tong University)

Exhibitors



EXHIBITION FLOOR PLAN & LIST OF EXHIBITORS



Poster Topics	Poster Board No.
Beckman Coulter	04
Beijing Beike Digital Medical Technology Co., Ltd.	03
EVER Neuro Pharma	06
Gene & I Scientific Ltd.	11
ISCBFM	08
Leica Microsystems	09
Perimed AB	02
PINGSENG Healthcare (Kunshan) Inc.	05
PMOD Technologies Ltd.	14
RWD Life Science Co., Ltd.	13
Shanghai Biomodel Organism Science & Technology Development Co., Ltd.	07
Thermo Fisher Scientific (China) Co., Ltd.	01



EXHIBITOR PROFILES

Beckman Coulter

500 Fu Shan Road
Shanghai, 200122
China

www.beckmancoulter.com

Beckman Coulter develops manufactures and markets products that simplify, automate and innovate complex biomedical testing. Our diagnostic systems are found in hospitals and other critical care settings around the world and produce information used by physicians to diagnose disease, make treatment decisions and monitor patients. Scientists use our life science research instruments to study complex biological problems including causes of disease and potential new therapies or drugs. Hospital laboratories are our core clinical diagnostic customers. Our life science customers include pharmaceutical and biotechnology companies, universities, medical schools and research institutions. More than 275,000 Beckman Coulter systems operate in both diagnostics and life sciences laboratories on six continents. For more than 75 years, our products have been making a difference in peoples' lives by improving the productivity of medical professionals and scientists, supplying critical information for improving patient health and reducing the cost of care.

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Bruker (Beijing) Scientific Technology Co., Ltd

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EVER Neuro Pharma

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www.everpharma.com

EVER Neuro Pharma is an internationally established, fully integrated pharmaceutical company focusing on the development, manufacturing and marketing of treatments for neurodegenerative and cerebrovascular disorders.

EVER Neuro Pharma's flagship product Cerebrolysin® is a globally recognized IV treatment for stroke, dementia and traumatic brain injury. With our own Marketing & Sales teams in our key markets and a strong network of partners, we serve over 50 markets around the globe with our products.

Gene & I Scientific Ltd

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Haidian District, Beijing, 100085
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www.gene-and-i.com

Founded in 2006, with more than 7 years' experience in Chinese research market, we have successfully made Gene&I an excellent distributor of bioscientific instruments. The business of Gene&I is mainly focused on neuroscience and animal experiments and covers all China mainland. A highly effective, mature and skilled team enables us to provide a high quality of services in sales, marketing and after sales technical support. We believe Gene&I will be one of your best partners in China research area.

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Perimed AB, headquartered just outside Stockholm, is the world leader in developing and manufacturing state-of-the-art equipment for microvascular diagnosis, such as Laser Doppler monitor, tcpO₂ monitor, Laser Speckle perfusion monitor etc. With customers in more than 80 countries, Perimed has subsidiaries in UK, US, France, Italy, Germany, Mainland China and Hong Kong. Customers from other countries are either supported by local representatives of directly from the company's headquarters. After more than 30 years of experience in the microcirculation field, we have a broad knowledge in research as well as clinical area, which is continually re-invested in her future development.

PINGSENG Healthcare (Kunshan) Inc.

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www.psmedtech.com

PINGSENG Healthcare is a Sino-foreign joint venture founded in the high-tech medical industrial park of Kunshan, Suzhou in 2012. It is dedicated to research, manufacturing and marketing of core components and systems for advanced medical imaging. PINGSENG's first product, Rainbow VHD, is the first brain and head/neck PET system in the world, with resolution and image quality superior to other clinical systems in the market. This system is uniquely designed for clinical and research applications in the field of brain function and neurology.

PMOD Technologies Ltd.

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www.pmod.com

PMOD Technologies aims to equip researchers with best-in-class software tools for biomedical imaging and quantification in humans and animals. The PMOD platform is used at more than 400 sites with over 1000 active users worldwide. It arguably represents the leading solution for PET kinetic modeling, supports all required image pre-processing steps such as image matching, brain image normalization, and automated volume-of-interest definition, and furthermore offers solutions for the pattern analysis of brain images and for attractive 3D image visualization. Founded in 2003 as a spin-off of the Zurich PET centre, PMOD is entertaining vibrant worldwide collaborations to ensure innovation.

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International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



SCIENTIFIC PROGRAM

MONDAY, MAY 20, 2013





Monday, May 20, 2013

09:00-12:30

Auditorium

Brain Course:

STROKE BIOMARKERS

Chairpersons: **M. Ning, USA**
 J. Montaner, Spain

09:00 **USING BIOMARKERS TO MONITOR THERAPEUTIC INTERVENTIONS**
 M. Ning, USA

09:45 **STROKE BIOMARKERS: CLINICAL INDICATIONS**
 J. Montaner, Spain

10:30 *Coffee Break*

11:00 **STROKE BIOMARKER DISCOVERY: MODEL SAMPLES AND PROTEOMICS STRATEGIES**
 J.-C. Sanchez, Switzerland

11:30 **STROKE BIOMARKER DISCOVERY: MICRORNAS**
 G.-Y. Yang, China

12:00 **STROKE BIOMARKER DISCOVERY: GENOMICS**
 F.R. Sharp, USA

12:30 *Lunch Break*

Monday, May 20, 2013

09:00-12:30

Yellow River

Brain Course:

TOOLS FOR STUDYING THE BLOOD BRAIN BARRIER AND NEUROVASCULAR UNIT

This session is supported by the International Brain-Barriers Society (IBBS).

Chairperson: **B. Banks, USA**

09:00 **INTRODUCTION**
 B. Banks, USA

09:10 **TRANSLATIONAL SCIENCE AT THE NEUROVASCULAR**
INTERFACE: CHALLENGES OF IN VITRO TO IN VIVO BIOLOGY
 A. Prat, Canada

09:50 **UTILITY OF IN SITU BRAIN PERFUSION TO STUDY MECHANISMS**
OF TRANSPORTER ACTIVITY AND REGULATION AT THE BLOOD
BRAIN BARRIER.
 P.T. Ronaldson, USA

10:30 *Coffee Break*

11:00 **QUANTIFICATION OF BLOOD BRAIN BARRIER PERMEABILITY IN**
HUMANS WITH CONTRAST-ENHANCED MRI: A NOVEL TOOL TO
STUDY VASCULAR DISEASES
 G.A. Rosenberg, USA

11:45 **BRAIN VASCULAR GENOMICS: METHODS FOR QUANTITATION,**
ANALYSIS AND INTERPRETATION
 L.R. Drewes, USA

12:30 *Lunch Break*

Monday, May 20, 2013

09:00-12:30

Century Hall

BrainPET Course:

BASIC

This session is supported by the World Molecular Imaging Society (WMIS).

Chairpersons: **I. Kanno, Japan**
 J. Price, USA

09:00 **BASIC PET PHYSICS**
 R. Koeppel, USA

09:30 **TRANSLATIONAL PET TRACER DEVELOPMENT**
 J. Passchier, UK

10:00 **NOVEL INSTRUMENTATION STRATEGIES FOR NEUROIMAGING WITH PET**
 S. Cherry, USA

10:30 *Coffee Break*

10:50 **QUANTITATIVE ANALYSIS OF NEURORECEPTOR STUDIES**
 H. Ito, Japan

11:15 **QUANTIFICATION ACROSS SPECIES**
 R.N. Gunn, UK

11:40 **NONINVASIVE INPUT FUNCTION**
 M. Naganawa, USA

12:05 **QUANTIFICATION VERSUS SIMPLIFICATION**
 A. Lammertsma, The Netherlands

12:30 *Lunch Break*

Monday, May 20, 2013

14:00-17:30

Auditorium

Brain Course:

ADVANCES IN MOLECULAR AND FUNCTIONAL IMAGING

This session is supported by the World Molecular Imaging Society (WMIS).

Chairpersons: **R. Dijkhuizen**, *The Netherlands*
 C.B. Schaffer, *USA*
 D. Doudet, *Canada*

14:00 **CELLULAR AND MOLECULAR IMAGING USING MRI AND
NANOPARTICLES**
 P.J. Foster, *Canada*

14:45 **ADVANCES IN FUNCTIONAL AND STRUCTURAL MRI OF THE
BRAIN**
 A.C. Silva, *USA*

15:30 *Coffee Break*

16:00 **OPTICAL IMAGING OF NEUROVASCULAR FUNCTION**
 D. Boas, *USA*

16:45 **TRANSLATIONAL PET AND MRI STUDIES IN EXPERIMENTAL AND
CLINICAL STROKE**
 J.C. Baron, *UK*

Monday, May 20, 2013

14:00-17:30

Yellow River

Brain Course:

ANIMAL MODELS

Chairpersons: **M. Yenari, USA**
 R. Traystman, USA

14:00 **STROKE MODELS**
 R. Traystman, USA

14:45 **CHRONIC CEREBRAL HYPOPERFUSION AS A PUTATIVE MODEL**
 FOR VASCULAR DEMENTIA
 H. Tomimoto, Japan

15:30 *Coffee Break*

16:00 **CNS TRAUMA**
 E. Dixon, USA

16:45 **BRAIN HEMORRHAGE**
 G. Xi, USA

Monday, May 20, 2013

14:00-17:30

Century Hall

BrainPET Course:

APPLICATION

Chairpersons: I. Kanno, *Japan*
J. Price, *USA*

14:00 **NOVEL METHODOLOGY FOR SIMULTANEOUS ASSESSMENT OF CMRO₂ AND CBF - CHALLENGES TOWARDS “ON-DEMAND” EXAMINATION USING ¹⁵O₂ AND PET**
H. Iida, *Japan*

14:25 **TWO COMPLEXITIES OF BRAIN IMAGING: GENOTYPE AND PERIPHERAL DISTRIBUTION**
R.B. Innis, *USA*

14:50 **DRUG DEVELOPMENT IN NEUROPSYCHIATRIC DISORDERS: FROM BENCH TO BED**
T. Suhara, *Japan*

15:15 **HUMAN HYBRID PET/MR IMAGING**
H. Herzog, *Germany*

15:40 *Coffee Break*

16:00 **IMAGING OPIOID TARGETS AND OPIOID-DOPAMINE INTERACTIONS**
E. Rabiner, *UK*

16:30 **MOLECULAR STROKE**
J. Hatazawa, *Japan*

17:00 **PET BIOMARKERS IN DEMENTIA**
K. Frey, *USA*

Monday, May 20, 2013

17:30-19:00

Auditorium

European Stroke Conference Brain Joint Symposium:
EXPERIMENTAL AND CLINICAL STROKE RESEARCH - DO THEY CONNECT?

Chairpersons: J.C. Baron, *UK*
U. Dirnagl, *Germany*

17:30 **INTRODUCTION**
J.C. Baron, *UK*

17:40 **TIME IS BRAIN: WHAT DO WE KNOW ABOUT THE TIME WINDOW FOR REPERFUSION AND NEUROPROTECTION? IN RODENTS!**
M. Macrae, *UK*

17:55 **TIME IS BRAIN: WHAT DO WE KNOW ABOUT THE TIME WINDOW FOR REPERFUSION AND NEUROPROTECTION? IN HUMANS!**
J.C. Baron, *UK*

18:10 **ASSESSMENT OF OUTCOME IN STROKE TRIALS IN RODENTS!**
U. Dirnagl, *Germany*

18:25 **ASSESSMENT OF OUTCOME IN STROKE TRIALS IN HUMANS!**
H. Adams, *USA*

18:40 **CONCLUSION: CAN EXPERIMENTAL STROKE RESEARCH INFORM CLINICAL DEVELOPMENT?**
U. Dirnagl, *Germany*

19:00-20:30

Exhibition Area

Welcome Reception



International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



SCIENTIFIC PROGRAM

TUESDAY, MAY 21, 2013





Tuesday, May 21, 2013

08:00-09:00

Auditorium

Opening, Introduction and Lifetime Achievement Award

Chairpersons: **J. Chen, USA**
 G.-Y. Yang, China

08:00 **WELCOME**
 J. Chen, USA
 G.-Y. Yang, China

08:30 **INTRODUCTION**
 E. Lo, USA

08:40 **RECIPIENT OF THE LIFETIME ACHIEVEMENT AWARD**
 M. Moskowitz

09:00-10:00

Auditorium

Presidential Lecture

Chairperson: **R. Traystman, USA**

09:00 **PRESIDENTIAL LECTURE**
 D. Mochly-Rosen, USA

10:00 *Coffee Break, Exhibition and Poster Viewing*

Tuesday, May 21, 2013

11:00-12:30

Auditorium

Symposium:

CELLULAR AND MOLECULAR MR IMAGING IN NEUROLOGICAL DISEASES

Chairpersons: **N. Sibson, UK**
 R. Dijkhuizen, The Netherlands

- 11:00 **INTRODUCTION**
 R. Dijkhuizen, The Netherlands
- 11:10 **TRACKING STEM CELLS IN VIVO USING MRI**
 J. Bulte, USA
- 11:30 **MOLECULAR MRI IN NEUROLOGICAL DISEASE**
 N. Sibson, UK
- 11:50 **MANGANESE-ENHANCED MRI OF THE BRAIN AND RETINA**
 T. Q. Duong, USA
- 12:10 **MAGNETIC RESONANCE IMAGING OF MACROPHAGE BRAIN**
INFILTRATION AND OF MOLECULAR BLOOD BRAIN BARRIER
ALTERATIONS IN EXPERIMENTAL AND CLINICAL MULTIPLE
SCLEROSIS
 K.G. Petry, France
- 12:30 *Lunch Break, Exhibition and Poster Viewing*

Tuesday, May 21, 2013

11:00-12:30

Yellow River

Symposium:

CEREBRAL MICROVASCULAR CONTRIBUTIONS TO DEMENTIA

Chairpersons: **J. Claassen, *The Netherlands***
 N. Nishimura, *USA*

11:00 **INTRODUCTION**
 N. Nishimura, *USA*

11:10 **CEREBRAL BLOOD FLOW IN MOUSE MODELS OF AD**
 A.J. Kiliaan, *The Netherlands*

11:30 **CEREBRAL MICROVASCULAR DISEASES: SPORADIC AND**
 FAMILIAL FORMS, AND THEIR IMPACT ON THE BRAIN
 H. Vinters, *USA*

11:50 **VASCULAR PATHOLOGY IN ALZHEIMER'S DISEASE**
 D.R. Thal, *Germany*

12:10 **IMPAIRED CEREBRAL AUTOREGULATION AND VASOMOTOR**
 REACTIVITY IN SPORADIC ALZHEIMER'S DISEASE
 J. Claassen, *The Netherlands*

12:30 *Lunch Break, Exhibition and Poster Viewing*

Tuesday, May 21, 2013

11:00-12:30

Century Hall

BrainPET Oral:

PRECLINICAL IMAGING AND TRACER EVALUATION

Chairpersons: H. Huang, *USA*
R. Boellaard, *The Netherlands*

Abstract No

- 11:00 **A PET SCANNER WITH 0.6 MM RESOLUTION DESIGNED FOR NEUROIMAGING IN MICE**
Y. Yang, J. Bec, J. Zhou, M. Zhang, M.S. Judenhofer, X. Bai, K. Di, Y. Wu, K.S. Shah, R. Farrell, J. Qi, **S.R. Cherry**, *USA* 427
- 11:15 **BRAIN PET IMAGING OF FREELY MOVING RATS: SYSTEM DESIGN AND PILOT ANIMAL DATA**
A. Kyme, R. Fulton, J. Eisenhuth, G. Angelis, W. Ryder, K. Popovic, V. Zhou, R. Bashar, S. Meikle, *Australia* 903
- 11:30 **COMPARISON BETWEEN BETA-MICROPROBE AND MICROPET IN INVESTIGATING RECEPTOR BINDING EXEMPLIFIED BY THE MGLUR5 TRACER [¹¹C]ABP688**
T. Wyckhuys, J. Verhaeghe, L. Wyffels, M. Schmidt, X. Langlois, S. Stroobants, S. Staelens, *Belgium* 139
- 11:45 **ACTIVATED ASTROCYTES OVEREXPRESS TSPO AND ARE DETECTED BY TSPO-RADIOLIGANDS**
S. Lavisse, M. Guillemier, A.-S. Hérard, F. Petit, N. Van Camp, L. Ben Haim, V. Lebon, P. Remy, F. Dollé, T. Delzescaux, G. Bonvento, P. Hantraye, C. Escartin, *France* 31
- 12:00 **CHARACTERIZATION OF [¹⁸F]PF-05270430 AS A NOVEL PET RADIOTRACER TO IMAGE THE PHOSPHODIESTERASE-2A (PDE2A) BINDING SITES IN NON-HUMAN PRIMATES**
N. Nabulsi, M. Naganawa, M. Skadden, L. Zhang, C. Helal, E.M. Beck, A. Villalobos, S.-F. Lin, S. Najafzadeh, D. Labaree, L. Chen, K. Zasadny, T. Bocan, R.N. Waterhouse, R.E. Carson, **Y. Huang**, *USA* 886
- 12:15 **[¹¹C]CIMBI-36 BINDS 5-HT_{2A} AND 5-HT_{2C} RECEPTORS IN THE NON-HUMAN PRIMATE BRAIN - A COMPARISON STUDY WITH [¹¹C]MDL 100907**
S.J. Finnema, V. Stepanov, A. Ettrup, R. Nakao, N. Amini, G.M. Knudsen, C. Halldin, *Sweden, Denmark* 630

12:30 *Lunch Break, Exhibition and Poster Viewing*

Tuesday, May 21, 2013

13:30-15:00

Yellow River

Brain Oral:

BRAIN METABOLISM AND CEREBROVASCULAR REGULATION IN AGING AND DISEASES

Chairpersons: R. Koehler, *USA*
M. Franceschini, *USA*

Abstract No

- 13:30 **THE DUAL ROLE OF BRAIN GLYCOGEN: THE GOOD AND THE BAD**
J. Duran, I. Saez, J.J. Guinovart, *Spain* 969
- 13:45 **ENERGY REQUIREMENTS DURING SPREADING DEPOLARISATION - MULTIMODAL MEASUREMENT AND KINETIC MODELLING**
D. Feuerstein, H. Backes, M. Gramer, M. Takagaki, T. Kumagai, R. Graf, *Germany, Japan* 254
- 14:00 **PEROXYNITRITE AND POLY(ADP-RIBOSE) POLYMERASE ARE RESPONSIBLE FOR THE NEUROVASCULAR DYSFUNCTION INDUCED BY BETA-AMYLOID**
L. Park, G. Wang, P. Zhou, H. Girouard, J. Anrather, C. Iadecola, *USA* 974
- 14:15 **REDUCED RESPONSE IN CORTICAL PENETRATING ARTERY BUT SUSTAINED RESPONSE IN CORTICAL SURFACE ARTERY TO WHISKER STIMULATION IN CHRONIC HYPOXIA MICE**
I. Kanno, Y. Sekiguchi, H. Takuwa, K. Masamoto, H. Kawaguchi, J. Taniguchi, Y. Tomita, R. Sudo, K. Tanishita, Y. Itoh, N. Suzuki, H. Ito, *Japan* 357
- 14:30 **ARTERIAL FUNCTION CHANGES IN SUB-CORTEX AFTER FOCAL CEREBRAL ISCHEMIA IN LIVING RAT**
X. Lin, P. Miao, Y. Guan, F. Yuan, Y. Tang, X. He, G. Tang, Y. Wang, G.-Y. Yang, *China* 911
- 14:45 **A1R-MEDIATED SPREADING DEPRESSION IS MODULATED BY METABOLIC STATUS**
B.E. Lindquist, C.W. Shuttleworth, *USA* 647
- 15:00 *Coffee Break, Exhibition and Poster Viewing*

Tuesday, May 21, 2013

13:30-15:00

Century Hall

BrainPET Oral:

MODELING AND ANALYSIS

Chairpersons: **A. Gjedde, Denmark**
 Q. Guo, UK

Abstract No

- 13:30 **ADEQUACY OF KINETIC MODEL FOR ¹⁵O-BASED CMRO₂ IN PET - CLEARANCE AFTER INTRA-CAROTID ¹⁵O-RADIOACTIVITY BOLUS INJECTION ON MACACA FASCICULARIS**
H. Iida, N. Kudomi, S. Iguchi, T. Moriguchi, N. Teramoto, K. Koshino, T. Zeniya, A. Yamamoto, Y. Hori, J. Enmi, H. Kawashima, *Japan* 1225
- 13:45 **CBF MEASURED BY 15O-WATER-PET AND ASL-MRI SIMULTANEOUSLY IN AN INTEGRATED 3TMR-BRAINPET**
H. Herzog, K. Zhang, J. Mauler, C. Filss, E. Rota Kops, L. Tellmann, T. Fischer, B. Brocke, W. Sturm, A. Buck, N.J. Shah, *Germany* 776
- 14:00 **ROBUST VOI BASED ANALYSIS OF MGLUR5 IMAGING IN RAT BRAIN USING [¹¹C]ABP688**
J. Verhaeghe, T. Wyckhuys, L. Wyffels, M. Schmidt, X. Langlois, S. Stroobants, S. Staelens, *Belgium* 214
- 14:15 **PHARMACOKINETIC MODEL BASED GROUPWISE IMAGE REGISTRATION OF 4D BRAIN PET DATA AND ITS IMPACT ON CLINICAL OCCUPANCY STUDIES WITH [¹¹C]-(+)-PHNO**
J. Jiao, G.E. Searle, J.A. Schnabel, R.N. Gunn, *UK* 746
- 14:30 **IMPACT OF PARTIAL VOLUME CORRECTION AND BRAIN ATROPHY ON AMYLOID IMAGING QUANTIFICATION**
Y. Su, T. Blazey, A.Z. Snyder, J.C. Morris, T.L.S. Benzinger, *USA* 827
- 14:45 **PERFORMANCE EVALUATION OF AN INTEGRATIVE SOFTWARE ENVIRONMENT FOR ANALYSIS OF MULTI-MODALITY NEUROIMAGING DATA IN PEDIATRIC EPILEPSY**
O. Muzik, D. Pai, E. Asano, C. Juhasz, J. Hua, *USA* 38

15:00 *Coffee Break, Exhibition and Poster Viewing*

Tuesday, May 21, 2013

16:00-17:30

Auditorium

Symposium:

COMORBIDITIES AND STROKE: FROM THE BEDSIDE TO THE BENCH

Chairpersons: **M.A. Moro, *Spain***
 M. Castellanos, *Spain*

- 16:00 **INTRODUCTION**
 M.A. Moro; M. Castellanos, *Spain*
- 16:10 **HYPERTENSION AND STROKE**
 D. Howells, *Australia*
- 16:30 **IMPROVING TPA THROMBOLYTIC THERAPY OF ISCHEMIC**
 STROKE WITH DIABETES MELLITUS AND POST-STROKE
 HYPERGLYCEMIA
 X. Wang, *USA*
- 16:50 **PRECEDING INFECTION AND ITS EFFECT ON STROKE OUTCOME**
 S. Allan, *UK*
- 17:10 **ROLE OF AGING IN ASSESSMENT OF STROKE THERAPEUTICS**
 J.D. Huber, *USA*

Tuesday, May 21, 2013

16:00-17:30

Yellow River

Symposium:

NEUROPLASTICITY-PROMOTING THERAPIES

Chairpersons: **M. Chopp, USA**
 J. Liu, USA

16:00 **INTRODUCTION**

M. Chopp, USA

16:10 **NEUROTHERAPEUTICS IN BRAIN REPAIR: EXCITATORY
 SIGNALING, GROWTH FACTORS AND PLASTICITY AGENTS**

S.T. Carmichael, USA

16:30 **MINING THE "NEW PENUMBRA" TO IDENTIFY MOLECULAR
 TARGETS THAT GUIDE PROTECTION AND REPAIR FOLLOWING
 STROKE: FOOL'S GOLD OR HIDDEN TREASURE?**

R. R. Ratan, USA

16:50 **PROMOTING PLASTICITY BY MODULATING INFLAMMATORY
 PROCESSES**

T. Wieloch, Sweden

17:10 **STEM CELL TREATMENT IN BRAIN DISORDERS**

S.I. Savitz, USA

Tuesday, May 21, 2013

16:00-17:30

Century Hall

BrainPET Symposium:

TRANSLATIONAL NEUROIMAGING IN ALZHEIMER'S DISEASE

Chairpersons: **K. Frey, USA**
 J. Price, USA

- 16:00 **IMAGING OF SIGNAL TRANSDUCTION CASCADE IN ALZHEIMER'S DISEASE**
 M. Higuchi, Japan
- 16:25 **TRANSLATIONAL AB AND TAU IMAGING IN ALZHEIMER'S DISEASE**
 V.L. Villemagne, Australia
- 16:50 **ESTABLISHING QUANTITATIVE SCALES FOR USE OF AMYLOID IMAGING AS A RESEARCH BIOMARKER**
 M. Mintun, USA
- 17:15 **SUMMARY**
 K. Frey, USA

Tuesday, May 21, 2013

17:30-19:00

Auditorium

Brain Oral:

HEALTHY AND DEGENERATIVE AGING

Chairpersons: Y. Xu, *China*
A. Rosell, *Spain*

Abstract No

- 17:30 **ANTI-AMNESIC EFFECT OF COCAINE- AND AMPHETAMINE REGULATED TRANSCRIPT (CART) THROUGH SYNAPTIC PROTECTION IN APP/PS1MICE**
J. Jin, K. Yin, L. Qian, X. Zhu, Y. Xu, *China* 529
- 17:45 **ALTERED BLOOD THIAMINE METABOLISM AS A BIOMARKER FOR ALZHEIMER'S DISEASE**
X. Pan, G. Fei, J. Lu, C. Zhong, *China* 1168
- 18:00 **CHRONIC RAPAMYCIN RESTORES BRAIN VASCULAR INTEGRITY THROUGH ENOS ACTIVATION IN MICE MODELING ALZHEIMER'S DISEASE**
A.-L. Lin, W. Zheng, J. Halloran, R. Burbank, S. Hussong, Y.-Y.I. Shih, E. Muir, A. Richardson, P. Fox, V. Galvan, *USA* 858
- 18:15 **CORTICAL AND SUBCORTICAL NEURAL AND FMRI RESPONSES IN AN ALZHEIMER'S DISEASE RAT MODEL**
B.G. Sanganahalli, P. Herman, K. Behar, H. Blumenfeld, D.L. Rothman, F. Hyder, *USA* 619
- 18:30 **CALORIC RESTRICTION ALTERS FLOW-METABOLISM COUPLING IN HEALTHY AGING: A COMBINED PET AND MRI STUDY**
A.-L. Lin, D. Coman, L. Jiang, P. Fox, A. Richardson, D. Rothman, F. Hyder, *USA* 856
- 18:45 **THE PATTERN OF METABOLIC HETEROGENEITY IN THE HIPPOCAMPUS BY 3T MULTI-VOXEL PROTON SPECTROSCOPY IN ALZHEIMER'S DISEASE**
F. Chen, B. Zhang, M. Li, X. Zhang, H. Wang, Y. Xu, B. Zhu, *China* 138

Tuesday, May 21, 2013

17:30-19:00

Century Hall

Brain Oral:

NEUROPROTECTION

Chairpersons: **S. Skaper**, *Italy*
A. Planas, *Spain*

Abstract No

- 17:30 **BRAIN COOLING BY INTRA-VENTRICULAR CATHETERS WITH BIRDS: A 7T SHEEP STUDY**
D. Coman, Y. Huang, J.W. Simmons, J.A. Goodrich, B. McHugh, J.A. Elefteriades, D.L. Rothman, **F. Hyder**, *USA* 828
- 17:45 **DOCOSAHEXAENOIC ACID COMPLEXED TO ALBUMIN AS A PROMISING NEUROPROTECTANT IN BRAIN ISCHEMIA: NEW EXPERIMENTAL EVIDENCE**
L. Belayev, L. Khoutorova, A. Obenaus, T.N. Eady, N.G. Bazan, *USA* 432
- 18:00 **TREADMILL PRE-TRAINING AMELIORATES BRAIN EDEMA IN CEREBRAL ISCHEMIA VIA DOWNREGULATION OF AQP4—A MRI STUDY OF RAT**
X. Wang, Z. He, X. Yang, Z. Wu, M. Li, Z. Guo, J. Guo, **J. Jia**, *China* 568
- 18:15 **FEASIBILITY SAFETY AND EFFICACY OF REMOTE ISCHEMIC PRECONDITIONING FOR SYMPTOMATIC INTRACRANIAL ARTERIAL STENOSIS IN OCTOGENARIANS**
R. Meng, J. Jia, G. Li, Y. Liu, F. Ling, J. Shi, Y. Duan, X. Wang, Y. Ding, E.H. Lo, X. Ji, *China, USA* 1004
- 18:30 **A NOVEL APPROACH TO NEUROPROTECTION: INHIBITING 12/15-LIPOXYGENASE TO TREAT STROKE**
H. Karatas, K. Yigitkanli, J.E. Jung, A. Pekcec, E.T. Mandeville, Y. Liu, J. Montaner, T.R. Holman, E.H. Lo, **K. van Leyen**, *USA, Spain* 892



International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



SCIENTIFIC PROGRAM

WEDNESDAY, MAY 22, 2013





Wednesday, May 22, 2013

08:30-10:00

Auditorium

Symposium:

IMPROVING QUALITY AND PREDICTIVENESS OF TRANSLATIONAL BRAIN RESEARCH - STATE-OF-THE-ART METHODS AND FUTURE PERSPECTIVES

Chairpersons: **J. Boltze**, *Germany*
 M. Macleod, *UK*

08:30 **INTRODUCTION**
 J. Boltze, *Germany, USA*

08:35 **IS THERE SOMETHING WRONG WITH STROKE MODELS?
POTENTIAL REASONS FOR THE TRANSLATIONAL FAILURE IN
NEUROPROTECTION**
 J. Jolkonnen, *Finland*

08:55 **MODELLING COMORBIDITIES IN EXPERIMENTAL STROKE:
MECHANISMS AND CONFOUNDERS**
 A. Denes, *UK, Hungary*

09:15 **NEUROFUNCTIONAL ASSESSMENTS IN RODENT MODELS OF
STROKE**
 G. Metz, *Canada*

09:35 **THE CONCEPT OF INTERNATIONAL, MULTICENTER,
RANDOMIZED AND CONTROLLED 'PHASE III' PRECLINICAL
TRIALS - EXPECTED IMPACT ON STROKE RESEARCH**
 M. Macleod, *UK*

09:55 **WRAP-UP AND CLOSING REMARKS / FINAL DISCUSSION**
 U. Dirnagl, *Germany*

10:00 *Coffee Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

08:30-10:00

Yellow River

Symposium:

DISEASES OF THE BLOOD-BRAIN BARRIER

Chairpersons: M. Erickson, *USA*
W.A. Banks, *USA*

08:30 **DYSFUNCTIONAL TRANSPORT OF LEPTIN: IS OBESITY A DISEASE OF THE BBB?**
W.A. Banks, *USA*

08:52 **INFLAMMATION INHIBITS EFFLUX OF AMYLOID BETA PEPTIDE: IMPLICATIONS FOR ALZHEIMER'S DISEASE**
M. Erickson, *USA*

09:14 **DISRUPTION OF THE BBB IN DIABETES: PROTECTION BY PERICYTES AND THE ROLE OF MITOCHONDRIAL CARBONIC ANHYDRASES**
G.N. Shah, *USA*

09:36 **TRANSPORT OF HIV-1 ACROSS THE BBB: KEY ROLE OF THE MANNOSE-6-PHOSPHATE RECEPTOR**
S. Dohgu, *Japan*

10:00 *Coffee Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

08:30-10:00

Century Hall

BrainPET Oral:

ANIMAL MODELS AND TRANSLATIONAL IMAGING

Chairpersons: **G.M. Knudsen**, *Denmark*
H. Zhang, *China*

Abstract No

- 08:30 **PET DEMONSTRATES FUNCTIONAL RECOVERY AFTER TRANSPLANTATION OF INDUCED PLURIPOTENT STEM CELLS IN A RAT MODEL OF CEREBRAL ISCHEMIC INJURY**
F. Song, J. Wang, F. Han, G. Zhang, Q. Xi, J. Li, H. Jiang, J. Wang, G. Yu, M. Tian, H. Zhang, *China* 1178
- 08:45 **¹¹C-SSR180575 EVALUATED UNDER NORMAL AND PATHOLOGICAL CONDITIONS IN NONHUMAN PRIMATE BRAIN**
N. Van Camp, S. Lavisse, L. Rbah-Vidal, R. Aron Badin, C. Jan, F. Dollé, T. Rooney, E. Brouillet, P. Hantraye, *France* 555
- 09:00 **QUANTIFYING THE SPECIFIC TSPO SIGNAL OF ¹¹C-PBR28 IN HEALTHY HUMANS: FROM IN VITRO TO IN VIVO**
Q. Guo, D.R. Owen, N. Kalk, A. Colasanti, A.A. Weekes, P.M. Matthews, F.E. Turkheimer, E.A. Rabiner, R.N. Gunn, *UK* 415
- 09:15 **[¹⁸F]PF-05270430 AS A PET RADIOTRACER FOR IMAGING PHOSPHODIESTERASE-2A IN THE BRAIN: FIRST IN HUMAN EVALUATION AND ASSESSMENT OF TEST-RETEST VARIABILITY**
M. Naganawa, N. Nabulsi, R.N. Waterhouse, A. Banerjee, S.-F. Lin, L. Zhang, T. Cass, J. Ropchan, A. Ogden, S. Tarabar, K. Zasadny, M. Skaddan, T.J. McCarthy, Y. Huang, R.E. Carson, *USA* 783
- 09:30 **INITIAL EVALUATION OF [¹¹C]ITMM FOR MAPPING METABOTROPIC GLUTAMATE RECEPTOR TYPE 1 IN HUMAN BRAIN**
M. Sakata, J. Toyohara, K. Oda, K. Ishii, M.R. Zhang, K. Ishiwata, *Japan* 499
- 09:45 **HIERARCHICAL ORGANIZATION OF THE SEROTONERGIC SYSTEM: A MULTI-TRACER PET STUDY ON HEALTHY SUBJECTS**
M. Savli, Y.-S. Ding, A. Neumeister, A. Bauer, D. Haeusler, W. Wadsak, M. Mitterhauer, R. Lanzenberger, *Austria, USA, Germany* 514

10:00 *Coffee Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

11:00-12:30

Auditorium

Brain Oral:

TOLERANCE AND ENDOGENOUS MECHANISMS

Chairpersons: H. Zhao, *USA*
R.S. Zukin, *USA*

Abstract No

- 11:00 **HAMARTIN IS A NOVEL NEUROPROTECTIVE TARGET MEDIATING THE RESISTANCE OF CA3 HIPPOCAMPAL NEURONS TO GLOBAL ISCHEMIA BY INDUCING AUTOPHAGY**
M. Papadakis, G. Hadley, M. Xilouri, M.M. McMenamin, M.J. Wood, K. Vekrellis, A.M. Buchan, *UK, Greece* 820
- 11:15 **REPETITIVE HYPOXIC PRECONDITIONING MODULATES ADAPTIVE IMMUNE MECHANISMS PRIOR TO STROKE**
S.J. Ireland, M. Li, E. Shubel, V. Fontanier, J.D. Hankins, A.J.M. Meeuwissen, R. Zhang, J.M. Gidday, N.L. Monson, A.M. Stowe, *USA* 894
- 11:30 **ROLE OF LYMPHATIC DRAINAGE FROM CNS IN THE DEVELOPMENT OF CEREBRAL VASOSPASM AND RELATED CEREBRAL ISCHEMIC INJURY FOLLOWING SUBARACHNOID HEMORRHAGE**
B.-L. Sun, X. Wang, Z.-Y. Zhang, M.-F. Yang, D.-W. Li, H. Yuan, Y.-B. Zhang, X.-Y. Yang, X. Hu, F. Zhang, *China, USA* 1027
- 11:45 **ISCHEMIC PRECONDITIONING REGULATES MITOCHONDRIAL NAMPT VIA THE PROTEIN KINASE C EPSILON-AMPK PATHWAY IN CORTICAL CULTURES**
K.C. Morris-Blanco, J.T. Neumann, M.A. Perez-Pinzon, *USA* 1309
- 12:00 **REST-DEPENDENT EPIGENETIC REMODELING PROMOTES THE *IN VIVO* DEVELOPMENTAL SWITCH IN SYNAPTIC NMDA RECEPTORS**
A. Rodenas-Ruano, A.E. Chávez, P.E. Castillo, R.S. Zukin, *USA* 1333
- 12:15 **MTOR PATHWAY IN THE NEUROPROTECTIVE MECHANISMS OF ISCHEMIC POSTCONDITIONING**
P. Wang, R. Xie, X. Ji, H. Zhao, *USA, China* 343
- 12:30 *Lunch Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

11:00-12:30

Yellow River

Brain Oral:

BLOOD BRAIN BARRIER DAMAGE AND PROTECTION

Chairpersons: **G. Fricke**, *Germany*
K. Masamoto, *Japan*

Abstract No

- 11:00 **EXPRESSION AND ROLE OF IQGAP1 IN THE BRAIN AFTER FOCAL ISCHEMIA**
Y. Yagita, K. Kitagawa, N. Oyama, T. Yukami, A. Watanabe, T. Sasaki, H. Mochizuki, *Japan* 530
- 11:15 **ROLE OF TOLL-LIKE RECEPTORS IN THE REGULATION OF BRAIN ENDOTHELIAL FUNCTION**
I. Krizbai, I. Wilhelm, A.E. Farkas, C. Fazakas, Á. Nyúl-Tóth, J. Haskó, J. Molnár, P. Nagyószí, *Hungary* 399
- 11:30 **TARGETING ORGANIC ANION TRANSPORTING POLYPEPTIDES TO TREAT PAIN AND HYPOXIA/REOXYGENATION STRESS**
P.T. Ronaldson, L.M. Slosky, B.J. Thompson, T.P. Davis, *USA* 439
- 11:45 **SPATIO-TEMPORAL DYNAMICS OF MORPHOLOGICAL CHANGES IN NEURO-GLIA-VASCULAR UNIT AFTER CEREBRAL ISCHEMIA MEASURED WITH TWO-PHOTON MICROSCOPY IN MOUSE CORTEX**
K. Masamoto, T. Abe, H. Takuwa, H. Toriumi, Y. Tomita, M. Unekawa, Y. Itoh, H. Kawaguchi, H. Ito, N. Suzuki, I. Kanno, *Japan* 743
- 12:00 **CRITICAL ROLE OF PROGRAM DEATH-LIGAND 1 SIGNALING IN REGULATORY T CELLS-AFFORDED PROTECTION AGAINST BLOOD-BRAIN BARRIER DAMAGE AFTER ISCHEMIA/REPERFUSION**
P. Li, Y. Gan, Y. Gao, J. Chen, **X. Hu**, *China, USA* 809
- 12:15 **MULTI-MODAL BIOMARKERS FACILITATE DIAGNOSIS IN VASCULAR COGNITIVE IMPAIRMENT: IDENTIFICATION OF PATIENTS WITH SUBCORTICAL ISCHEMIC VASCULAR DISEASE**
G.A. Rosenberg, J. Prestopnik, J. Thompson, A. Caprihan, B. Huisa, J.C. Adair, *USA* 318

12:30 *Lunch Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

11:00-12:30

Century Hall

BrainPET Oral:

NEUROPSYCHIATRY

Chairpersons: **D. Wong**, *USA*
M. Fujita, *USA*

Abstract No

- 11:00 **FLUOXETINE ADMINISTERED TO PRE-PUBERTAL MONKEYS PERSISTENTLY UPREGULATES THE SEROTONIN TRANSPORTER INTO ADULTHOOD**
S. Shrestha, **J.-S. Liow**, E.E. Nelson, R. Gladding, C.H. Lyoo, I. Henter, V.W. Pike, P.L. Noble, J.T. Winslow, S.J. Suomi, P. Svenningsson, E. Leibenluft, D. Pine, R.B. Innis, *USA, Sweden* 579
- 11:15 **CHANGES OF BRAIN PHOSPHODIESTERASE TYPE 4 MEASURED WITH ¹¹C-(R)-ROLIPRAM PET IN MAJOR DEPRESSIVE DISORDER**
M. Fujita, C. Hines, S. Zoghbi, A. Mallinger, Y. Zhang, V. Pike, W. Drevets, C. Zarate, **R. Innis**, *USA* 130
- 11:30 **SEROTONIN TRANSPORTER BINDING IN HEALTHY 5-HTTLPR S-ALLELE CARRIERS DOES NOT SHOW SEASONAL VARIATION**
B. Mc Mahon, A.S. Andersen, M.K. Madsen, L. Feng, V. Frøkjær, S. Keller, S. da Cunha-Bang, M. Herth, P. Iversen, L. Hasholt, G.M. Knudsen, *Denmark* 1198
- 11:45 **CENTRAL 5-HT SYSTEM DETERMINES THE AMOUNT OF WEIGHT LOSS ACHIEVED WITH GASTRIC BYPASS**
M.E. Haahr, D.L. Hansen, D.S. Stenbaek, T. Almdahl, C. Ratner, K. Madsen, J. Madsen, W.F. Baare, **G.M. Knudsen**, *Denmark* 1091
- 12:00 **CHANGES IN THE PRESYNAPTIC DOPAMINE METABOLISM OF NICOTINE DEPENDENT SUBJECTS: STATE OR TRAIT?**
I. Vernaleken, L. Rademacher, S. Prinz, K. Henkel, C. Dietrich, O. Winz, S. Mohammedkhali, J. Schmaljohann, F. Mottaghy, G. Gründer, *Germany* 861
- 12:15 **INNATELY LOW D₂ RECEPTOR AVAILABILITY IS ASSOCIATED WITH HIGH NOVELTY-SEEKING AND ENHANCED BEHAVIOURAL SENSITIZATION TO AMPHETAMINE**
N. Ginovart, B.B. Tournier, P. Millet, M. Moulin-Sallanon, P. Vallet, T. Steimer, *Switzerland, France* 1176

12:30 *Lunch Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

13:30-15:00

Auditorium

Symposium:

BRAIN FUNCTIONAL CONNECTIVITY FROM BENCH TO BEDSIDE

Chairpersons: J. Culver, *USA*
Y.-Y.I. Shih, *USA*

13:30 **INTRODUCTION**
Y.-Y.I. Shih, *USA*

13:40 **FUNCTIONAL CONNECTIVITY IN ANIMAL BRAIN USING OPTICAL IMAGING**
J. Culver, *USA*

14:00 **FUNCTIONAL CONNECTIVITY IN ANIMAL BRAIN USING FCMRI**
C. Pawela, *USA*

14:20 **FUNCTIONAL CONNECTIVITY OF HUMAN BRAIN USING MAGNETOENCEPHALOGRAPHY**
F.-H. Lin, *Taiwan R.O.C.*

14:40 **FUNCTIONAL CONNECTIVITY IN HUMAN BRAIN USING MRI**
H. Liu, *USA*

15:00 *Coffee Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

13:30-15:00

Yellow River

Symposium:

SELECTIVE NEURONAL LOSS IN CEREBROVASCULAR DISEASES: ANIMAL AND HUMAN STUDIES

Chairpersons: H. Yamauchi, *Japan*
J.C. Baron, *UK*

13:30 **SELECTIVE NEURONAL LOSS IN CHRONIC OBSTRUCTIVE DISEASE OF THE MAJOR CEREBRAL ARTERIES: A PET STUDY**
H. Yamauchi, *Japan*

13:52 **CORTICAL SELECTIVE NEURONAL LOSS FOLLOWING ACUTE ISCHEMIC STROKE IN RODENTS AND MAN: PET, MRI, BEHAVIORAL AND IMMUNOHISTOCHEMICAL CHARACTERIZATION**
J.C. Baron, *UK*

14:14 **STRIATAL SELECTIVE NEURONAL LOSS AND SPECTACULAR SHRINKING DEFICIT IN RODENTS AND MAN: MRI, BEHAVIOR AND HISTOPATHOLOGY**
M. Fujioka, *Japan*

14:36 **SELECTIVE NEURONAL LOSS: BASIC AND EXPERIMENTAL ASPECTS IN RODENT TEMPORARY MCA OCCLUSION MODELS**
M. Endres, *Germany*

15:00 *Coffee Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

13:30-15:00

Century Hall

BrainPET Oral:

NEURODEGENERATION AND NEUROLOGICAL DISORDERS

Chairpersons: D. Doudet, *Canada*
A. Varrone, *Sweden*

Abstract No

- 13:30 **MODIFICATIONS OF CHOLINERGIC FUNCTIONAL ANATOMY IN ALZHEIMER'S DISEASE ASSESSED BY AUTORADIOGRAPHY USING THE PET TRACER [¹⁸F]FLUOROETHOXYBENZOVESAMICOL**
J.-P. Soucy, M. Parent, M.-A. Bédard, A. Aliaga, N. Mechawar, P. Rosa-Neto, *Canada* 83
- 13:45 **CHRONIC CEREBRAL HYPOPERFUSION DID NOT ACCELERATE [¹¹C]PIB-REACTIVE AB DEPOSITION IN AMYLOID PRECURSOR PROTEIN TRANSGENIC MICE**
C. Seki, M. Higuchi, M. Tokunaga, B. Ji, M. Ono, M. Maruyama, J. Maeda, N. Nitta, I. Aoki, T. Suhara, H. Ito, *Japan* 1076
- 14:00 **PROTEASOME INHIBITION MODEL OF PARKINSON'S DISEASE IN GOTTINGEN MINIPIG: COMBINED DOPAMINERGIC AND NORADRENERGIC EFFECTS**
A.M. Landau, S. Jakobsen, A.K.O. Alstrup, A.C. Schacht, A. Møller, J.C. Sørensen, D. Doudet, *Denmark, Canada* 595
- 14:15 **5HT_{1B} RECEPTOR IMAGING AND COGNITION IN PARKINSON'S DISEASE**
A. Varrone, P. Svenningsson, P. Marklund, H. Fatouros-Bergman, A. Forsberg, C. Halldin, L.-G. Nilsson, L. Farde, *Sweden* 773
- 14:30 **REPRODUCIBILITY OF PARKINSONISM-RELATED METABOLIC BRAIN NETWORK ACTIVITY IN A CHINESE PATIENT COHORT**
Y. Ma, S. Peng, J. Wang, P. Wu, C. Tang, C. Zuo, V. Dhawan, D. Eidelberg, *USA, China* 618
- 14:45 **[¹¹C]-(R)PK11195 UPTAKE AND TRANSLOCATOR PROTEIN EXPRESSION IN GLIOMAS: DIFFERENCES BETWEEN GRADES AND SUBTYPES**
Z. Su, F. Roncaroli, A. Gerhard, R. Hinz, K. Karabatsou, D.J. Coope, F.E. Turkheimer, A. Jackson, K. Herholz, *UK* 394

15:00 *Coffee Break, Exhibition and Poster Viewing*

Wednesday, May 22, 2013

16:00-17:30

Auditorium

Brain Oral:

DEVELOPING BRAIN AND INJURY

Chairpersons: U.I. Tuor, *Canada*
C.-Y. Kuan, *USA*

Abstract No

- 16:00 **PROGRESSION OF AXONAL DEGENERATION FOLLOWING NEONATAL CEREBRAL HYPOXIA-ISCHEMIA IN RATS DETECTED USING DIFFUSION TENSOR IMAGING AND HISTOLOGY**
U.I. Tuor, M. Morgunov, M. Sule, M. Qiao, T. Foniok, A. Kirton, *Canada* 294
- 16:15 **RESTORATION OF DAMAGE AND MOTOR ACTIVITY AFTER NEONATAL HYPOXIA-ISCHEMIA BY IMPLANTATION OF PERIPHERAL BLOOD MONONUCLEAR CELLS**
Y.-X. Liu, X.-M. Guo, Z.-W. Zhang, J.-H. Xue, H.-T. Zhang, J.-F. Li, *China* 970
- 16:30 **TH17 LYMPHOCYTES ARE CRITICAL MEDIATORS OF PERIPHERAL INFLAMMATION-SENSITIZED HYPOXIC-ISCHEMIC BRAIN INJURY IN NEWBORNS**
D. Yang, Y.-Y. Sun, J.B. Baumann, D.M. Lindquist, C.-Y. Kuan, *USA* 448
- 16:45 **OMEGA-3 POLYUNSATURATED FATTY ACIDS MARKEDLY ATTENUATE DAMAGE TO WHITE MATTER AND THE BLOOD-BRAIN-BARRIER IN NEONATAL HYPOXIC-ISCHEMIC BRAIN INJURY**
H. Zhang, W. Zhang, J. Chen, Y. Gao, Q. Dong, *China, USA* 1074
- 17:00 **EVOKED CHANGES IN OXYGEN CONSUMPTION IN THE SOMATOSENSORY CORTEX OF PREMATURE NEONATES**
N. Roche-Labarbe, A. Fenoglio, H. Radakrishnan, M. Kocienski-Filip, S.A. Carp, J. Dubb, D.A. Boas, P.E. Grant, M.A. Franceschini, *USA, France* 79
- 17:15 **INTRAVENOUS IMMUNOGLOBULIN (IVIG) OFFERS NEUROPROTECTION AGAINST NEONATAL HYPOXIA/ISCHEMIA**
B. Chen, M. Basta, C. Liu, B. Hu, *USA* 1138

Wednesday, May 22, 2013

16:00-17:30

Yellow River

Brain Oral:

MECHANISMS OF CELL DEATH

Chairpersons: **M. Macrae, UK**
P. Herson, USA

Abstract No

- 16:00 **CONTRIBUTION OF PARTHANATOS TO CELL DEATH FROM HYPERGLYCEMIC ISCHEMIC STROKE**
R.C. Koehler, J. Zhang, X. Li, Z.-J. Yang, H. Kwansa, Y.T. Kim, V.L. Dawson, T.M. Dawson, *USA* 623
- 16:15 **VISUALIZATION AND ANALYSIS OF SPATIO-TEMPORAL MOLECULAR CHANGES IN HIPPOCAMPUS AFTER TRANSIENT GLOBAL ISCHEMIA USING IMAGING MASS SPECTROMETRY**
S. Miyawaki, T. Hayasaka, H. Imai, H. Ono, H. Horikawa, T. Ochi, A. Ito, H. Nakatomi, M. Setou, N. Saito, *Japan* 685
- 16:30 **TRPM2 CHANNELS ARE COINCIDENCE DETECTORS OF PARP-1 AND ANDROGEN RECEPTOR SIGNALING FOLLOWING EXPERIMENTAL STROKE IN MICE**
T. Shimizu, N. Quillinan, R.J. Traystman, **P. Herson**, *USA* 564
- 16:45 **THE EFFECT OF MITOPHAGY IN TRANSIENT ISCHEMIC BRAIN IN RATS**
Q. Li, T. Zhang, J.-X. Wang, G.-Y. Yang, X.-J. Sun, *China, USA* 441
- 17:00 **TEMPORAL PROFILE OF THE MITOCHONDRIAL PROTEOME IN THE ISCHEMIC PENUMBRA**
L. Meissner, G. Chen, T. Froehlich, U. Mamrak, M. Gonik, I. Johnston, G.J. Arnold, H. Zischka, **N. Plesnila**, *Germany, Ireland* 376
- 17:15 **VALIDATION OF THE ENTIRE NADPH OXIDASE FAMILY AS TARGETS FOR STROKE THERAPY**
K.A. Radermacher, E. Göb, H. van Essen, J. Debets, P. Lijnen, P. Kleikers, S. Altenhöfer, R. Hermans, K. Wingler, C. Kleinschnitz, H.H. Schmidt, *The Netherlands, Germany* 584

Wednesday, May 22, 2013

16:00-17:30

Century Hall

BrainPET Oral:

NEUROTRANSMITTER SYSTEM EVALUATION

Chairpersons: R. Carson, *USA*
R. Gunn, *UK*

Abstract No

- 16:00 **PHARMACOLOGICAL INDUCED CHANGES IN GLUTAMATE LEVELS DO NOT AFFECT MGLUR5 RADIOLIGAND [11C]JABP688 BINDING IN THE RAT BRAIN**
T. Wyckhuys, J. Verhaeghe, L. Wyffels, M. Schmidt, X. Langlois, S. Stroobants, S. Staelens, *Belgium* 211
- 16:15 **ENDOCANNABINOID MODULATION OF NORADRENALINE RELEASE REVEALED WITH [11C]YOHIMBINE MICRO-PET**
A. Nahimi, A.M. Landau, M. Simonsen, G. Wegener, A. Gjedde, *Denmark* 885
- 16:30 **ACUTE ETHANOL APPLICATION INCREASES A₁ ADENOSINE RECEPTOR AVAILABILITY IN THE HUMAN BRAIN**
D. Elmenhorst, A. Matusch, T. Kroll, A. Bauer, *Germany* 263
- 16:45 **QUANTIFICATION OF DOPAMINE D3 RECEPTORS AND DOPAMINE RELEASE IN THE FUNCTIONAL ZONES OF THE PALLIDUM**
A.C. Tziortzi, G. Searle, G. Douaud, E. Rabiner, M. Jenkinson, R.N. Gunn, *UK* 582
- 17:00 **EFFECTS OF DOPAMINE D2 RECEPTOR AGONIST/ANTAGONIST CHALLENGES IN SIMULTANEOUS PET/FMRI**
C.Y. Sander, J.M. Hooker, C. Catana, T. Witzel, D.B. Chonde, B.R. Rosen, J.B. Mandeville, *USA* 649
- 17:15 **A [11C]DIPRENORPHINE STUDY OF THE HUMAN OPIOID SYSTEM DURING EXPERIMENTAL PAIN USING SIMULTANEOUS FMRI-PET**
H.-Y. Wey, C. Catana, J.M. Hooker, D.D. Dougherty, G.M. Knudsen, B.R. Rosen, R.L. Gollub, J. Kong, *USA, Denmark* 1300

Wednesday, May 22, 2013

17:30-18:30

Auditorium

Special Symposium:

JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM: HIGHLIGHTS

Chairpersons: **M. Lauritzen**, *Denmark*
 U. Dirnagl, *Germany*
 Editors in Chief, Journal of Cerebral Blood Flow & Metabolism

- 17:30 **ASTROCYTIC AQUAPORIN 4 ROLES IN NEUROIMAGING SIGNALS:
DWI AND DTI**
 J. Badaut, *USA*
- 17:45 **CELLULAR, VASCULAR AND FUNCTIONAL DEVELOPMENT OF
THE BRAIN**
 E. Hillman, *USA*
- 18:00 **RNA PROFILING IN STROKE**
 F. Sharp, *USA*
- 18:15 **CLINICAL IMAGING OF INFLAMMATION USING TSPO-TARGETED
PET**
 E.A. Rabiner, *UK*



International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



SCIENTIFIC PROGRAM

THURSDAY, MAY 23, 2013





Thursday, May 23, 2013

08:00-09:00

Auditorium

Niels Lassen Award

Chairpersons: E. Hamel, *Canada*
K. Abe, *Japan*

Abstract No

- 08:00 **CALORIC RESTRICTION ENHANCES OXIDATIVE BRAIN METABOLISM IN HEALTHY AGING DETECTED BY ^1H [^{13}C] MRS**
A.-L. Lin, D. Coman, L. Jiang, D. Rothman, F. Hyder, *USA* 454
- 08:15 **REGULATORY T CELLS LIMIT ISCHEMIC BRAIN INFLAMMATION AND NEUROVASCULAR DISRUPTION VIA SUPPRESSION OF PERIPHERAL MATRIX METALLOPEPTIDASE-9**
P. Li, Y. Gan, B. Sun, F. Zhang, Y. Gao, W. Liang, J. Chen, X. Hu, *China, USA* 346
- 08:30 **NF-KB PATHWAY CONTRIBUTES TO THE BRAIN REPAIR INDUCED BY HEMATOPOIETIC GROWTH FACTORS IN CHRONIC STROKE**
L. Cui, N.S. Duchamp, B.J. Dakota, X. Ren, H. Hu, L.-R. Zhao, *USA* 778
- 08:45 **SEROTONIN 2A RECEPTOR AGONIST BINDING IN THE HUMAN BRAIN: FIRST EVALUATION OF [^{11}C]CIMBI-36**
A. Ettrup, S. da Cunha-Bang, B. McMahon, A. Dyssegaard, S. Lehel, M. Hansen, A.O. Baandrup, K. Møller, C. Svarer, J.L. Kristensen, N. Gillings, G.M. Knudsen, *Denmark* 1123

Thursday, May 23, 2013

09:00-10:00

Auditorium

Plenary Lecture

Chairperson: M. Yenari, *USA*
M.A. Perez-Pinzon, *USA*

09:00 **BLOOD VESSELS, STROKE AND NEURODEGENERATION**
V. Hachinski, *Canada*

10:00 *Coffee Break, Exhibition and Poster Viewing*

11:00-12:30

Auditorium

Symposium:

IMMUNE RESPONSES IN SYNAPSE FUNCTION AND BRAIN DAMAGE

Chairpersons: D. Sun, *USA*
H. Hagberg, *UK*

11:00 **SYSTEMIC INFLAMMATION IN THE NEONATE ALTERS BRAIN DEVELOPMENT**
P. Gressens, *France*

11:22 **ROLE OF MAST CELLS IN HYPOXIC-ISCHEMIC INJURY TO THE IMMATURE BRAIN**
S. Vannucci, *USA*

11:44 **POST-STROKE INFLAMMATION AND LONG-TERM OUTCOMES**
Y. Xu, *China*

12:06 **RESTING MICROGLIA DIRECTLY MONITOR SYNAPSES IN VIVO AND DETERMINE THE FATE OF ISCHEMIC TERMINALS**
H. Wake, *Japan*

12:30 *Lunch Break, Exhibition and Poster Viewing*

Thursday, May 23, 2013

11:00-12:30

Yellow River

Brain Oral:

BRAIN HEMMORRHAGE

Chairpersons: J. Aronowski, *USA*
J. Dreier, *Germany*

Abstract No

- 11:00 **INTRAVENTRICULAR ERYTHROCYTE LYSIS AND HYDROCEPHALUS**
C. Gao, Y. Hua, R.F. Keep, G. Xi, *USA, China* 167
- 11:15 **ROLE OF IRON IN BRAIN LIPOCALIN 2 EXPRESSION AFTER INTRACEREBRAL HEMORRHAGE IN RATS**
M. Dong, G. Xi, R.F. Keep, Y. Hua, *USA, China* 164
- 11:30 **INHIBITION OF S100B/RAGE- RELATED PATHWAY PREVENTS SUBARACHNOID HEMORRHAGE (SAH)-ASSOCIATED NEUROINFLAMMATION AND NEUROLOGIC DYSFUNCTION IN RATS**
D. Pelligrino, H. Xu, C. Paisansathan, *USA* 440
- 11:45 **EFFECTS OF CILOSTAZOL ON CEREBRAL VASOSPASM AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE: A MULTICENTER PROSPECTIVE, RANDOMIZED, OPEN-LABEL BLINDED END POINT TRIAL**
H. Kinouchi, N. Senbokuya, Y. Nishiyama, K. Kanemaru, T. Yagi, H. Yoshioka, K. Hashimoto, T. Horikoshi, *Japan* 740
- 12:00 **ASPIRIN ATTENUATES INFLAMMATION IN THE WALL OF HUMAN CEREBRAL ANEURYSMS: PRELIMINARY RESULTS**
D. Hasan, *USA* 921
- 12:15 **DETOXIFICATION OF HEMOGLOBIN IS NEUROPROTECTIVE AFTER INTRACEREBRAL HEMORRHAGE; PRE-CLINICAL STUDIES**
X. Zhao, G.-H. Sun, S. Song, J. Zhang, R. Strong, J.C. Grotta, J. Aronowski, *USA* 227

12:30 *Lunch Break, Exhibition and Poster Viewing*

Thursday, May 23, 2013

11:00-12:30

Century Hall

Symposium:

PATHOLOGICAL INTERFACES AT THE NEUROVASCULAR UNIT: BLOOD AND AMYLOID

Chairpersons: **J.-M. Lee, USA**
 J. Zhang, USA

11:00 **VASCULAR PATHOLOGY FOLLOWING SUBARACHNOID HEMORRHAGE: NOVEL ASPECTS AND THERAPEUTIC APPROACHES**
 N. Plesnila, Germany

11:22 **BLOOD, BLOOD VESSEL AND NEUROLOGICAL DEFICITS AFTER SAH**
 J. Zhang, USA

11:44 **TRANSGENIC MOUSE MODELS OF CEREBRAL AMYLOID ANGIOPATHY: ARTERIOLAR VS CAPILLARY AMYLOID ACCUMULATION**
 W.E. Van Nostrand, USA

12:06 **CAA-INDUCED HEMORRHAGE: PRECLINICAL STUDIES TO PREVENT SPONTANEOUS INTRACEREBRAL HEMORRHAGE**
 J.-M. Lee, USA

12:30 *Lunch Break, Exhibition and Poster Viewing*

12:30-13:30

Yellow River

ISCBFM General Assembly

Thursday, May 23, 2013

13:30-15:00

Auditorium

Brain Oral:

INFLAMMATION AND IMMUNE MECHANISMS

Chairpersons: M.-G. De Simoni, *Italy*
Y. Gao, *China*

Abstract No

- 13:30 **MULTIMODAL IMAGING OF MICROGLIAL ACTIVATION AND MATRIX-METALLOPROTEINASES AFTER EXPERIMENTAL STROKE**
B. Zinnhardt, T. Viel, A. Vrachimis, A. Faust, L. Wachsmuth, S. Hermann, K. Kopka, C. Faber, F. Dollé, B. Tavititan, M. Schäfers, M.T. Kuhlmann, A.H. Jacobs, *Germany, France* 286
- 13:45 **IN VITRO AND IN VIVO EVIDENCE THAT MESENCHYMAL STEM CELLS DRIVE PROTECTIVE M2 MICROGLIA POLARIZATION**
E.R. Zanier, L. Riganti, F. Pischiutta, E. Turolo, S. Fumagalli, C. Perego, G. D'amico, D. Lecca, E. Biagi, M.P. Abbraccio, C. Verderio, M.G. De Simoni, *Italy* 745
- 14:00 **THE LINK BETWEEN STRESS RESPONSE, IMMUNOMODULATION AND INFECTIONS IN MICE AND MEN WITH CEREBROVASCULAR DISEASES**
A. Liesz, E. Mracsko, J. Purucker, P.P. Nawroth, H. Rüger, M. Möhlenbruch, W. Hacke, R. Veltkamp, *Germany* 412
- 14:15 **INCIDENCE OF PLUGGED CAPILLARIES IN MOUSE MODELS OF AD CAN BE REDUCED BY ANTIBODIES TO LEUKOCYTE MARKERS**
N. Nishimura, C.J. Kersbergen, I. Ivasyk, J.C. Cruz-Hernandez, J. Zhou, J.D. Beverly, G. Otte, P. Karlsson, E. Slack, T.P. Santisakultarm, C. Iadecola, C.B. Schaffer, *USA* 848
- 14:30 **IDENTIFICATION OF INFLAMMATORY MARKERS TO DISTINGUISH LARGE - FROM SMALL VESSEL DISEASE IN PATIENTS WITH ACUTE ISCHEMIC STROKE**
L. Zeng, Y. Wang, J. Liu, L. Wang, S. Weng, G.-Y. Yang, *China* 1087
- 14:45 **POST-ISCHEMIC ADMINISTRATION OF A POTENT PTEN INHIBITOR REDUCES SPONTANEOUS LUNG INFECTION FOLLOWING EXPERIMENTAL STROKE**
J. Cheng, J. Jia, L. Mao, C. Dong, H. Liu, Y. Xiao, X. Zhou, X. Mao, Y. Guan, *China* 89

15:00 *Coffee Break, Exhibition and Poster Viewing*

Thursday, May 23, 2013

13:30-15:00

Yellow River

Brain Oral:

CNS TRAUMA

Chairpersons: X. Wang, USA
J. Badaut, USA

Abstract No

- 13:30 **THYMOSIN BETA 4 PROMOTES BRAIN AND SPINAL CORD REMODELING AND IMPROVES FUNCTIONAL RECOVERY IN RATS AFTER TRAUMATIC BRAIN INJURY**
Y. Xiong, Y. Zhang, Y. Meng, Z.G. Zhang, A. Mahmood, M. Chopp, USA 1049
- 13:45 **CANNABINOID RECEPTOR DENSITY IS INCREASED IN A NEWBORN PIGLET BUT NOT AN ADULT RAT MODEL OF TRAUMATIC BRAIN INJURY**
C. Donat, K. Gaber, F. Fischer, B. Walter, W. Deuther-Conrad, R. Bauer, J. Meixensberger, P. Brust, Germany 30
- 14:00 **CAVEOLIN EXPRESSIONS AND FUNCTIONS AFTER JUVENILE TRAUMATIC BRAIN INJURY**
A.M. Fukuda, D.O. Ajao, D. Sorensen, J. Badaut, USA 1143
- 14:15 **HISTONE DEACETYLASE INHIBITION PREVENTS WHITE MATTER LESIONS BY TITRATING MICROGLIA/MACROPHAGE POLARIZATION FOLLOWING EXPERIMENTAL TRAUMATIC BRAIN INJURY**
G. Wang, X. Hu, Y. Guo, X. Jiang, H. Pu, L. Mao, A.K.-F. Liou, R.K. Leak, Y. Gao, J. Chen, China, USA 460
- 14:30 **METABOLIC CHANGES IN TRAUMATIZED CULTURED HUMAN ASTROCYTES**
S.M. Wolahan, I.B. Wanner, T.C. Glenn, USA 434
- 14:45 **LONG-TERM EFFECTS OF MILD AND MODERATE-SEVERE BRAIN INJURY ON COGNITIVE FUNCTION AND LOCAL FUNCTIONAL CONNECTIVITY DENSITY**
A. Livny-Ezer, M. Weiser, T. Kushnir, S. Harnof, D. Tomasi, C. Hoffmann, E. Fruchter, A. Biegon, Israel, USA 459

15:00 *Coffee Break, Exhibition and Poster Viewing*

Thursday, May 23, 2013

13:30-15:00

Century Hall

Brain Oral:

FLOW AND METABOLISM: MECHANISMS OF REGULATION

Chairpersons: F. Hyder, *USA*
E. Hillman, *USA*

Abstract No

- 13:30 **LAMINAR NEURAL ACTIVITY AND FLOW-METABOLISM COUPLINGS IN CEREBRAL CORTEX**
P. Herman, B.G. Sanganahalli, D. Rothman, H. Blumenfeld,
F. Hyder, *USA* 75
- 13:45 **HYPOGLYCEMIA ACTIVATION OF CEREBRAL BLOOD FLOW IS MEDIATED BY GLUT-2 GLUCOSE TRANSPORTER**
H. Lei, F. Preitner, B. Thorens, R. Gruetter, *Switzerland* 524
- 14:00 **MODULATION OF CORTICAL PERFUSION AND SENSORY-EVOKED HEMODYNAMIC RESPONSES BY SELECTIVE OPTOGENETIC STIMULATION OF LOCUS COERULEUS NORADRENERGIC NEURONS**
X. Toussay, M. Wyss, B. Weber, A. Adamantidis, E. Hamel, *Canada, Switzerland* 875
- 14:15 **GLUTATHIONE IS A KEY REGULATOR OF ASTROCYTE CONTRIBUTIONS TO NEUROVASCULAR COUPLING**
C. Howarth, B.A. Sutherland, H.B. Choi, C. Martin, J. Pagan, G. Ellis-Davies, N. Sibson, A.M. Buchan, B. Macvicar, *UK, Canada, USA* 287
- 14:30 **SEGMENTAL VARIATION IN CAPILLARY DIAMETER AND FLOW CORRELATE TO LOCALIZATION OF BRAIN PERICYTES**
B. Gesslein, C. Hall, D. Attwell, M. Lauritzen, *Denmark, UK* 581
- 14:45 **NEUROVASCULAR HETEROGENEITY IN MURINE CEREBRAL CAPILLARIES UNDER ELECTRICAL AND CHEMICAL STIMULATION**
C. Cai, N.K. Iversen, E.G. Jimenez, L. Østergaard, *Denmark* 251

15:00 *Coffee Break, Exhibition and Poster Viewing*

Thursday, May 23, 2013

16:00-17:30

Auditorium

Symposium:

**NOVEL OPTICAL TECHNIQUES TO ELUCIDATE CEREBROVASCULAR
FUNCTION AND DISEASE**

Chairpersons: **C.B. Schaffer, USA**
 A. Dunn, USA

- 16:00 **INTRODUCTION**
 C.B. Schaffer, USA
- 16:10 **FUNCTIONAL MRI OF ANIMALS WITH OPTOGENETIC ACTIVATION
 OF SPECIFIC NEURONAL SUBSETS**
 J.H. Lee, USA
- 16:30 **DECIPHERING NEURONAL CIRCUITRY CONTROLLING LOCAL
 BLOOD FLOW IN CEREBRAL CORTEX OF RODENTS WITH
 OPTOGENETICS AND CHRONIC FUNCTIONAL ULTRASOUND
 IMAGING**
 J. Rossier, France
- 16:50 **RAPID VOLUMETRIC IMAGING OF CAPILLARY FLOW
 CHARACTERISTICS WITH OPTICAL COHERENCE TOMOGRAPHY**
 J. Lee, USA
- 17:10 **HIGH RESOLUTION IMAGING OF OXYGEN TENSION AND BLOOD
 FLOW AFTER MICROVASCULAR OCCLUSION**
 A.K. Dunn, USA

Thursday, May 23, 2013

16:00-17:30

Yellow River

Symposium:

NOVEL DRUGS FROM NATURAL PRODUCTS OR TRADITIONAL MEDICINE FOR CNS DISEASES

Chairpersons: **P. Wong**, *Singapore*
 Z. Boli, *China*

- 16:00 **POTENTIAL DRUGS FROM NATURAL PRODUCTS FOR AD AND PD**
 Y.-H. Suh, *Republic of Korea*
- 16:15 **LEONURINE (SCM-198), A NOVEL COMPOUND FROM CHINESE**
 HERB FOR PREVENTION AND ACUTE TREATMENT IN THE
 ANIMAL MODEL OF ISCHEMIC STROKE
 Y.Z. Zhu, *China*
- 16:30 **CLINICAL TRIALS OF TCM-BASED DRUGS FOR STROKE AND**
 DEMENTIA
 A. Lim, *Singapore*
- 16:45 **DEVELOPMENT OF INNOVATIVE TCM PRODUCT**
 Y. Qiu, *China*

Thursday, May 23, 2013

16:00-17:30

Century Hall

Brain Oral:

WHITE MATTER DAMAGE

Chairpersons: R. Vemuganti, *USA*
X. Hu, *China*

Abstract No

- 16:00 **PTEN MODULATES WHITE MATTER RECOVERY AFTER TRAUMATIC BRAIN INJURY**
X. Jiang, G. Wang, H. Pu, S. Lu, W. Zhang, H. Gao, J. Chen, Y. Gao, *China, USA* 1019
- 16:15 **ROLE OF ASTROCYTIC ACTIVATION IN WHITE MATTER DISRUPTION AND COGNITIVE IMPAIRMENT IN A MOUSE MODEL OF VASCULAR DEMENTIA**
F.J. Gerich, T. Schumacher, R. Saggiu, C. Ulbrich, G.C. Petzold, *Germany* 727
- 16:30 **POST-ACUTE CXCL12 GENE THERAPY PROTECTS AGAINST CEREBRAL WHITE MATTER INJURY BY PROMOTING OLIGODENDROCYTE PROGENITOR CELL PROLIFERATION, MIGRATION AND REMYELINATION**
Y. Li, J. Huang, X. He, Y. Tang, X. Lin, Y. Lyu, G. Tang, G.-Y. Yang, Y. Wang, *China* 471
- 16:45 **A NEW RAT MODEL OF STRESS-INDUCED DEPRESSION ASSOCIATED WITH AGE-RELATED, SELECTIVE WHITE MATTER INJURY**
H. Ono, H. Imai, S. Miyawaki, H. Horikawa, T. Ochi, A. Ito, S. Miyata, M. Kurachi, Y. Ishizaki, H. Yamagata, H. Nakatomi, M. Mikuni, N. Saito, *Japan* 178
- 17:00 **SERUM AND CSF BIOMARKER LEVELS CORRELATE WITH BIOMECHANICAL RESPONSE AND AXONAL INJURY LEVELS IN CLOSED HEAD IMPACT TRAUMATIC BRAIN INJURY**
L. Zhang, Y. Li, S. Kallakuri, J.M. Cavanaugh, *USA* 897
- 17:15 **CHARACTERIZATION OF WHITE MATTER INJURY BY DIFFUSION TENSOR MRI IN A RAT MODEL OF CHRONIC CEREBRAL HYPOPERFUSION**
D.B. Back, B.-R. Choi, J.-S. Han, J.-H. Seo, W.J. Moon, B.R. Kim, J. Lee, H.Y. Kim, *Republic of Korea* 363



International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



POSTER SESSION I

TUESDAY, MAY 21, 2013





Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Animal Models

Board No		Abstract No
1	THE INFLUENCE OF DEPRESSION ON THE SOCIAL BEHAVIOR OF RATS, THE EFFECT OF ANTIDEPRESSANT TREATMENT M. Boyko , D. Porat, R. Kuts, I. Melamed, V. Zvenigorodsky, A. Zlotnik, <i>Israel</i>	1187
2	ESTABLISHMENT OF RAT MODEL OF POST-SUBARACHNOID HEMORRHAGE DEPRESSION M. Boyko , R. Kuts, V. Zvenigorodsky, I. Melamed, D. Porat, A. Zlotnik, <i>Israel</i>	1186
3	ESTABLISHMENT OF ANIMAL MODEL OF DEPRESSION CONTAGION M. Boyko , D. Porat, R. Kuts, V. Zvenigorodsky, Y. Kezerle, H. Severinovskaya, K. Baturova, A. Zlotnik, <i>Israel, Ukraine</i>	1173
4	ENDOTHELIAL INJURY INITIATES THE PATHOLOGICAL CASCADE OF CEREBRAL SMALL VESSEL DISEASE IN SHRSP C.Z. Büche , C. Garz, H.-J. Heinze, M. Goertler, K. Reymann, H. Braun, S. Schreiber, <i>Germany</i>	220
5	A NON-HUMAN PRIMATE MODEL OF TRANSIENT FOCAL CEREBRAL ISCHEMIA WITH VARIABLE DURATION DETERMINED BY SERIAL DIFFUSION MRI S.-H. Cha , S.R. Lee, H.J. Lee, S.Y. Lee, K.S. Yi, K.-M. Kim, Y.J. Lee, K.-T. Chang, <i>Republic of Korea</i>	1071
6	EVOLUTION OF THE PENUMBRA IN AN ANIMAL STROKE MODEL DURING THE FIRST 12 HOURS AFTER STROKE ONSET B. Hong-Goka, R. Sweazey, F.-L. Chang , <i>USA</i>	1122
7	EFFECTS OF GINKGOLIDE ON EXPRESSION OF HO-1 IN CEREBRAL TISSUE OF SUBARACHNOID HEMORRHAGE AFTER BLOCKAGE OF CEREBRAL LYMPHATIC DRAINAGE RATS C.Z. Cheng , <i>China</i>	1247
8	DIFFERENT SHAM PROCEDURES INDUCE CORRESPONDING INCREASES IN LEVELS OF TRAUMA MARKERS FOR RATS IN TRAUMATIC BRAIN INJURY EXPERIMENTS Y.-H. Chiang , C.-C. Wu, K.-Y. Chen, W.-T. Chiu, C.-Y. Shiau, <i>Taiwan</i> <i>R.O.C.</i>	1323

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Animal Models (contd.)

Board No		Abstract No
9	PROGRESSION OF A PHOTOTHROMBOTIC-INDUCED ISCHAEMIC INFARCT DETERMINED BY MRI AND HISTOLOGY A. Craig, A. Krishnan, G. Housley, <i>Australia</i>	1252
10	PHOTOTHROMBOTIC MILD STROKE: MRI DETECTION OF CORE AND PERI-INFARCT INJURY Q. Deng, M. Qiao, T. Foniok, D. Rushforth, U.I. Tuor, <i>Canada</i>	644
11	THE CORRIDOR TEST TO ASSESS SENSORIMOTOR NEGLECT FOLLOWING MIDDLE CEREBRAL ARTERY OCCLUSION C.M. Diaz, R.C. Trueman, A.E. Rosser, S.B. Dunnett, <i>UK</i>	42
12	INVESTIGATING THE TIME-COURSE OF MRI AND NEUROPATHOLOGICAL EFFECTS OF 45MIN MICROCLIP DISTAL MCA OCCLUSION (MD-TMCAO) IN THE SPONTANEOUSLY HYPERTENSIVE RAT S. Ejaz, D.J. Williamson, T. Ahmed, S.J. Sawiak, J.-C. Baron, <i>UK, France</i>	718
13	A NOVEL RODENT MODEL OF PURE CORTICAL SELECTIVE NEURONAL LOSS FOLLOWING TEMPORARY MCA OCCLUSION (TMCAO): BEHAVIORAL, HISTOPATHOLOGICAL AND MRI CHARACTERIZATION S. Ejaz, J. Emmrich, S.J. Sawiak, D.J. Williamson, J.-C. Baron, <i>UK, France</i>	549
14	DEVELOPMENT OF A MCA OCCLUSION RODENT MODEL OF PURE CORTICAL SELECTIVE NEURONAL LOSS: NEUROPATHOLOGICAL VALIDATION S. Ejaz, D.J. Williamson, U. Jensen-Kondering, T. Ahmed, S.J. Sawiak, J.-C. Baron, <i>UK, France</i>	55
15	DIRECT THETA BURST CORTICAL STIMULATION INDUCES LONG LASTING PLASTICITY-LIKE EFFECTS IN RAT T.-H. Hsieh, C.-W. Peng, Y.-Z. Huang, A. Rotenberg, J.-J. Chen, J.-Y. Wang, <i>Taiwan R.O.C., USA</i>	1170
16	INCREASED EXPRESSION OF SMALL HEAT SHOCK PROTEIN AB-CRYSTALLIN AFTER INTRACEREBRAL HEMORRHAGE IN ADULT RATS K. Ke, L. Li, <i>China</i>	378

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Animal Models (contd.)

Board No		Abstract No
17	CONTRIBUTION OF ESTROGEN ALPHA AND BETA RECEPTORS IN NEUROPROTECTIVE EFFECTS OF ESTROGEN FOLLOWING TRAUMATIC BRAIN INJURY M. Khaksari Haddad, S. Zahedi Asl, A. Siaposht Khachaki, N. Shahrokhi, S. Nourizade, <i>Iran</i>	335
18	DEPRESSION-LIKE BEHAVIOR IN A RAT MODEL OF CHRONIC CEREBRAL HYPOPERFUSION: FEASIBILITY AS AN ANIMAL MODEL FOR VASCULAR DEPRESSION S.R. Lee, B.-R. Choi, S. Paul, J.-S. Han, H.Y. Kim, <i>Republic of Korea</i>	117
19	ZEBRAFISH AS A NOVEL MODEL SYSTEM FOR STUDYING HYPOXIC-ISCHEMIC BRAIN DAMAGE Y.V. Li, X. Yu, <i>USA</i>	904
20	CURCUMIN REDUCES ABETA DEPOSITION IN THE APP/PS1 DOUBLE TRANSGENIC MOUSE THROUGH LXRB/RXRA/ABCA1 PATHWAY X. Zhang, Z. Teng, C. Wang, J. Sun, Y. Li, <i>China</i>	1276
21	CURCUMIN INDUCED MACROAUTOPHAGY EXPRESSION IN THE HIPPOCAMPUS OF THE APPSWE/PS1 DOUBLE TRANSGENIC MICE MODELS X. Zhang, C. Wang, Z. Teng, J. Sun, Y. Li, <i>China</i>	1275
22	THE INFLUENCE OF SYSTEMATIC HYPERTENSION ON GROWTH AND RUPTURE OF CEREBRAL ANEURYSM J. Cai, T. Han, C. He, Y.-H. Bai, S.-P. Huang, Y. Huang, F. Ling, <i>China</i>	977
23	UTILITIES AND CHALLENGES OF DIFFERENT MOUSE CEREBRAL ISCHEMIA MODELS C. Liu, T. Kristian, B. Hu, <i>USA</i>	1136
24	ANESTHETIC-DRUG INTERACTIONS IN RODENT PHARMACOLOGICAL MAGNETIC RESONANCE IMAGING OF THE SEROTONIN SYSTEM C. Martin, A. Spain, A. Khrapichev, N.R. Sibson, <i>UK</i>	703
25	EFFECT OF ARGATROBAN ON LASER-INDUCED THROMBUS FORMATION IN MURINE BRAIN MICROVASCULATURE OBSERVED ON INTRAVITAL FLUORESCENCE MICROSCOPY H. Maruyama, T. Fukuoka, T. Hayashi, Y. Nagamine, H. Sano, M. Hirayama, N. Tanahashi, <i>Japan</i>	938

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Animal Models (contd.)

Board No		Abstract No
26	ACUTE HYDROCEPHALUS IN A RAT MODEL OF SUBARACHNOID HEMORRHAGE S. Okubo, Y. Hua, N. Kawai, T. Tamiya, R.F. Keep, G. Xi, <i>USA, Japan</i>	261
27	PIVOTAL ROLES OF P62 AND SELECTIVE AUTOPHAGY IN TAU DEPOSITION AND CONSEQUENT NEURODEGENERATION REVEALED WITH TAUOPATHY MOUSE MODELS M. Ono, B. Ji, M. Tokunaga, M. Komatsu, T. Ishii, T. Suhara, M. Higuchi, <i>Japan</i>	1099
28	AMINO ACID TRACERS AS RELIABLE IMAGING BIOMARKER TO MONITOR TREATMENT RESPONSE OF GLIOBLASTOMAS TO TEMOZOLOMIDE THERAPY WITH INTERFERON-B AND BEVACIZUMAB T. Ono, T. Sasajima, Y. Doi, S. Oka, M. Ono, M. Kanagawa, A. Baden, K. Mizoi, <i>Japan</i>	99
29	NEUROCHEMICAL SIGNALLING AND PARTICIPATION OF PAX6 IN FISHES POSTEMBRYONAL NEUROGENESIS E.V. Pushchina, M.E. Stukanyova, D.K. Obukhov, A.A. Varaksin, <i>Russia</i>	205
30	DIAGNOSTIC SIGNIFICANCE OF NEWLY SYNTHESIZED AMINO ACID ANALOG <i>TRANS</i>-1- AMINO-3-FLUOROCYCLOBUTANECARBOXYLIC ACID (<i>ANTI</i>-FACBC) IN GLIOMAS T. Sasajima, T. Ono, N. Shimada, Y. Doi, S. Oka, M. Kanagawa, A. Baden, K. Mizoi, <i>Japan</i>	97
31	NEW MODEL OF MEDULLOBLASTOMA IN THE RAT TO DETERMINE THE ROLE OF TRANSIENT RECEPTOR POTENTIAL CHANNELS IN TUMOUR MICROENVIRONMENT S. Serres, M. Glitsch, B. Claire, N.R. Sibson, <i>UK</i>	515
32	A MODEL OF RAT EMBOLIC INTERNAL CAROTID ARTERY OCCLUSION WITH A QUANTIFIABLE, AUTOLOGOUS ARTERIAL BLOOD CLOT N. Shimamura, J. Kikuchi, N. Matsuda, H. Ohkuma, <i>Japan</i>	971

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Animal Models (contd.)

Board No		Abstract No
33	PRENATAL STRESS MODULATES IGFBP-2 EXPRESSION IN HIPPOCAMPUS AND FRONTAL CORTEX J. Slusarczyk, E. Szczesny, A. Basta- Kaim, K. Glombik, M. Leskiewicz, J. Detka, M. Kubera, B. Budziszewska, W. Lason, <i>Poland</i>	207
34	REGULATION OF IFN-GAMMA EXPRESSION BY SOCS-1 IN AN ANIMAL MODEL OF DEPRESSION E. Szczesny, J. Slusarczyk, A. Basta- Kaim, A. Zelek-Molik, K. Rafa- Zablocka, K. Glombik, A. Kurek, B. Budziszewska, I. Nalepa, W. Lason, <i>Poland</i>	210
35	UNIFORM EXTENT AND DEGREE OF CEREBRAL ISCHEMIA AFTER MIDDLE CEREBRAL ARTERY OCCLUSION IN RATS: USE OF PROSPECTIVE DIFFUSION MRI K.S. Yi, S.-H. Cha, S.Y. Lee, C. Lee, S.-R. Lee, <i>Republic of Korea</i>	1149
36	LIPOPOLYSACCHARIDE/ISCHEMIA/HYPOXIA INDUCES DIFFUSE MYELIN/AXONAL INJURY AND FOCAL MYELIN/AB AGGREGATION IN RAT BRAIN X. Zhan, C. Cox, B.P. Ander, G.C. Jickling, F.R. Sharp, <i>USA</i>	119
37	ESTABLISHMENT AND EVALUATION OF AN EXPERIMENTAL ANIMAL MODEL OF HIGH ALTITUDE CEREBRAL EDEMA Q.Q. Zhou, P. Guo, H. Luo, Y. Fan, <i>China</i>	12

Biomarkers

38	IN SEARCH OF AUTISM BIOMARKERS D.M. Halepoto, L.Y. Al-Ayadhi, <i>Saudi Arabia</i>	150
39	VALUE OF EXPRESSION LEVEL OF MICRORNA-1285 IN DIAGNOSIS OF AMYOTROPHIC LATERAL SCLEROSIS B. Cai, D. Fan, <i>China</i>	1107
40	MICRORNA EXPRESSION SIGNATURE IN HUMAN BRAIN ARTERIOVENOUS MALFORMATIONS AND BRAIN HEMANGIOBLASTOMA J. Huang, W. Zhu, Q. An, Y. Wang, S. Zhang, T. Xu, G. Tang, Y. Li, Y. Liu, Y. Wang, G.-Y. Yang, <i>China</i>	466
41	QUEST FOR ELECTROPHYSIOLOGICAL BIOMARKERS IN TRANSLATIONAL STROKE RESEARCH J. Lückl, S. Major, U. Khojasteh, J.P. Dreier, <i>Germany</i>	759

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Biomarkers (contd.)

Board No		Abstract No
42	CSF ALPHA-SYNUCLEIN TEMPORAL PROFILES PREDICT OUTCOME AFTER SEVERE TRAUMATIC BRAIN INJURY S. Mondello, A. Buki, D. Italiano, A. Jeromin, <i>USA, Hungary, Italy</i>	124
43	BLOOD GLUTATHIONE S-TRANSFERASE-PI AS A STOPWATCH OF STROKE ONSET J.-C. Sanchez, X. Robin, J. Montaner, P. Burkhard, N. Turck, <i>Switzerland, Spain</i>	1043
44	SERUM METABOLOMIC ANALYSIS RELIABLY DIFFERENTIATES BETWEEN MULTIPLE SCLEROSIS SUB-TYPES N. Sibson, J.R. Larkin, A.M. Dickens, J.L. Griffin, A. Cavey, L. Matthews, B.G. Davies, T.D.W. Claridge, J. Palace, D.C. Anthony, <i>UK</i>	738
45	CIRCULATING MICRORNA AS BIOMARKERS FOR STROKE SEVERITY: EVIDENCE FROM AN EXPERIMENTAL MODEL A. Selvamani, M. Wright-Williams, R.C. Miranda, F. Sohrabji, <i>USA</i>	159
46	DETERMINATION OF VISIN LIKE PROTEIN FOR DIAGNOSIS OF THE STROKE D. Stejskal, M. Svestak, P. Kanovsky, <i>Czech Republic</i>	74
47	NEUROVASCULAR OXIDATIVE STRESS THROUGH NITRIC OXIDE AND SOLUBLE LECTIN-LIKE OXIDIZED LOW-DENSITY LIPOPROTEIN RECEPTOR - 1 (SLOX-1) IN ACUTE STROKE K. Suwanprasert, S.- Muengtaweepongsa, <i>Thailand</i>	723
48	PSMB8 AS AN MTBI BIOMARKER L.-J. Tsai, E.-Y. Lin, K.-Y. Chen, Y.-C. Chen, W.-T. Chiu, Y.-J. Chen, Y.-H. Chiang, J.-H. Chen, <i>Taiwan R.O.C.</i>	177
49	INCREASED CYSTATIN C AND DECREASED VEGF IN SERUM WITH LOW CEREBRAL GLUCOSE METABOLISM: PREDICTION FOR SEVERITY OF MALE PARKINSON'S DISEASE H. Gao, Y. Xu, L. Long, Q. Wang, <i>China</i>	206
50	IL-6 IS THE KEY PRO-INFLAMMATORY CYTOKINE IN PERIPHERAL INFLAMMATION RESPONSE TO CEREBRAL ISCHEMIA L. Zeng, Y. Wang, J. Liu, L. Wang, S. Weng, K. Chen, E.F. Domino, G.-Y. Yang, <i>China, USA</i>	1084

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Blood-Brain Barrier

Board No		Abstract No
51	CYCLOOXYGENASE-1 CONTRIBUTES TO BLOOD-BRAIN BARRIER DISRUPTION IN ISCHEMIC BRAIN INJURY BY MODULATING OF TIGHT JUNCTION PROTEINS S.-H. Choi, F. Bosetti, A.C. Silva, <i>USA</i>	635
52	PERMEABILISATION OF THE BLOOD-BRAIN BARRIER AT SITES OF METASTASIS ENABLES TARGETED THERAPY DELIVERY J. Connell, G. Chatain, B. Cornelissen, K. Vallis, L. Seymour, D. Anthony, N. Sibson, <i>UK</i>	129
53	CAVEOLIN-1 REGULATES NITRIC OXIDE MEDIATED MATRIX METALLOPROTEINASES ACTIVITY AND BLOOD-BRAIN BARRIER PERMEABILITY IN FOCAL CEREBRAL ISCHEMIA AND REPERFUSION INJURY Y. Gu, J. Shen, <i>Hong Kong S.A.R.</i>	669
54	COMBINED MICROPET IMAGING AND MICRODIALYSIS IN A STUDY OF OXYCODONE ACTIVE UPTAKE IN RAT BRAIN S. Gustafsson, J. Eriksson, S. Syvänen, O. Eriksson, J. Dunhall, M. Hammarlund-Udenaes, G. Antoni, <i>Sweden</i>	797
55	CORRELATIONS OF THE IMMUNOREACTIVITIES OF DYSTROGLYCAN COMPLEX AND LAMININ IN CEREBRAL VESSELS RELATED TO THE BLOOD-BRAIN BARRIER PERMEABILITY M.G. Kálmán, J. Mahalek, S. Sadeghian, E. Faragó, N. Varga, K. Pócsai, <i>Hungary</i>	590
56	COMBINATORIAL ANTIOXIDANTS ATTENUATES BLOOD-BRAIN BARRIER DISRUPTION AFTER ISCHEMIC STROKE J.E. Lee, J.Y. Kim, J.Y. Choi, S.-T. Lee, K.-M. Lee, <i>Republic of Korea</i>	489
57	THE INTERACTIONS BETWEEN NITRIC OXIDE, CAVEOLIN-1 AND AUTOPHAGOSOME CONTRIBUTE TO OXYGEN-GLUCOSE DEPRIVATION-INDUCED CLAUDIN-5 DEGRADATION IN ENDOTHELIAL CELLS J. Liu, J. Weaver, K. Liu, X. Jin, W. Liu, <i>China, USA</i>	1243
58	THE PROTECTIVE ROLE OF TONGXINLUO ON BLOOD-BRAIN BARRIER AFTER ISCHEMIA-REPERFUSION BRAIN INJURY Y. Liu, G. Tang, Y. Sun, G.-Y. Yang, J.-R. Liu, <i>China</i>	1078

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Blood-Brain Barrier (contd.)

Board No		Abstract No
59	EVALUATION OF PERMEABILITY AND METABOLISM OF 20(S)-PROTOPANAXADIOL IN AN IN VITRO BLOOD BRAIN BARRIER MODEL, HCMEC/D3 HUMAN BRAIN ENDOTHELIAL CELLS W. Meng, C.A. Ortori, D.A. Barrett, W. Jia, A. Al-Shehri, T.L. Parker, UK, Canada, Saudi Arabia	640
60	DEVELOPMENT OF A BRAIN-TUMOUR-ENDOTHELIAL 3-D TRIPLE CO-CULTURE MODEL OF THE BBB FOR STUDIES ON TARGETING BRAIN TUMORS USING LIPID CARRIERS T. Parker, A. Al Shehri, M.E. Favretto, H. Lu, W. Meng, P. Kallinteri, UK, China	680
61	EXACERBATION OF METHAMPHETAMINE-INDUCED NEUROTOXICITY IN DIABETES. NEUROPROTECTION BY NANODRUG DELIVERY OF NEUROTROPHINS H.S. Sharma, J.V. Lafuente, R. Patnaik, D.F. Muresanu, A. Sharma, Sweden, Spain, India, Romania	63
62	CAVEOLIN-1 IS A CRUCIAL MOLECULAR TARGET IN BLOOD-BRAIN-BARRIER (BBB) DISRUPTION AND INFARCTION ENLARGEMENT DURING CEREBRAL ISCHEMIA-REPERFUSION INJURY J. Shen, Y. Gu, Hong Kong S.A.R.	1034
63	INTERACTION OF MELANOMA CELLS WITH BRAIN ENDOTHELIAL CELLS I. Wilhelm, C. Fazakas, A.G. Végh, J. Haskó, J. Molnár, Á. Nyúl-Tóth, P. Nagyőszzi, G. Váró, I.A. Krizbai, Hungary	385
64	EFFECT OF FASUDIL HYDROCHLORIDE ON NEURONAL APOPTOSIS AND BLOOD BRAIN BARRIER PERMEABILITY FOLLOWING FOCAL CEREBRAL ISCHEMIA IN RATS H. Chen, Q.-H. Cui, Y.-B. Zhang, J.-M. Li, China	966
65	PRECONDITIONING WITH SULFORAPHANE AND ALLYL ISOTHIOCYANATE TO INDUCE CEREBROVASCULAR PROTECTION N. Zhou, J. Xiang, R. Keep, USA, China	401
66	INFLUENCE OF HYPOXIA ON THE PERMEABILITY OF BBB IN RAT AND PROTECTIVE EFFECT OF SODIUM AESCINATE ON BBB EXPOSURE HYPOXIA Q.Q. Zhou, P. Guo, H. Luo, China	11

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Brain Edema

Board No		Abstract No
67	ROLE OF ASTROCYTE NETWORK IN EDEMA FORMATION AFTER JUVENILE TRAUMATIC BRAIN INJURY A.M. Fukuda, A. Adami, S. Ashwal, A. Obenaus, J. Badaut, <i>USA</i>	981
68	EFFECTS OF PROPOFOL POST-TREATMENT ON BLOOD-BRAIN BARRIER INTEGRITY AND BRAIN EDEMA AFTER TRANSIENT CEREBRAL ISCHEMIA B.-N. Koo, J.H. Lee, H.S. Cui, <i>Republic of Korea</i>	453
69	ORDERED WATER WITHIN MOCROTUBULES (MTS) AS A SEPARATE AND SIGNIFICANT HYDRATION FRACTION TO BE MEASURED IN CEREBROVASCULAR BRAIN EDEMA A.R. Kunz, C. Iliadis, <i>USA, Greece</i>	1293
70	MECHANISMS OF AQUAPORIN EXPRESSION FOLLOWING EXPERIMENTAL TRAUMATIC BRAIN INJURY K. Rauen, R. Trabold, J. Badaut, V. Popp, N. Plesnila, <i>Germany, USA</i>	667
71	TEMPORAL AND SPATIAL DYNAMICS OF VASOGENIC BRAIN EDEMA FORMATION QUANTIFIED BY 2-PHOTON MICROSCOPY <i>IN VIVO</i> S.M. Schwarzmaier, M. Gallozzi, N. Plesnila, <i>Ireland, Germany</i>	503
72	AGE AND SIZE DEPENDENT NEUROPATHOLOGY OF NANOPARTICLES FROM METALS IN RATS ARE RELATED TO NITRIC OXIDE MEDIATED MECHANISMS A. Sharma, D.F. Muresanu, R. Patnaik, H.S. Sharma, <i>Sweden, Romania, India</i>	65
73	NO EFFECT OF MANNITOL ON THE COURSE OF PERIHEMORRHAGIC EDEMA AFTER INTRACEREBRAL HEMORRHAGE B. Volbers, W. Willfarth, S. Schwab, P. Gölitz, A. Doerfler, D. Staykov, <i>Germany</i>	824
74	ULINASTATIN ATTENUATES CEREBRAL ISCHEMIC NEUROINJURY VIA AQP4 AND NKCC1 MEDIATED ANTI-EDEMA ACTION L. Zhang, Z. Fei, <i>China</i>	1256

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Brain Edema (contd.)

Board No

Abstract No

- 75 **EFFECT AND INFLUENCING FACTORS OF FIRST AID AND TREATMENT ON THE SPOT FOR PATIENTS WITH HIGH ALTITUDE CEREBRAL EDEMA**
Q.Q. Zhou, D. Yang, X. Zhang, *China* 13
- 76 **TLR4 AND SEIZURE GENERATION FOLLOWING ISCHEMIA WITH HYPERGLYCEMIA**
Y. Liang, Z. Lei, H. Zhang, Z. Xu, Q. Cui, **Z.C. Xu**, *China, USA* 104

Cardiac Arrest/Global Cerebral Ischemia

- 77 **NEUROPROTECTIVE EFFECT OF OSTHOLE AGAINST OXYGEN AND GLUCOSE DEPRIVATION IN RAT CORTICAL NEURONS: INVOLVEMENT OF MAPK PATHWAY**
T. Chen, Z. Fei, *China* 1273
- 78 **CARDIAC ARREST DECREASES HIPPOCAMPAL CA1 NEURONS, INHIBITS PLASTICITY AND IMPAIRS SPATIAL MEMORY IN MIDDLE AGED RATS**
C.H. Cohan, J.T. Neumann, M. Binkert, K.R. Dave, C.B. Wright, M.A. Perez-Pinzon, *USA* 624
- 79 **GLOBAL CEREBRAL ISCHEMIA-REPERFUSION INDUCES STRIATAL T1-HYPERINTENSITY OF NEURONAL DEATH WITHOUT MICROBLEEDS IN HUMAN BRAINS: SWI STUDY ON CARDIAC ARREST SURVIVORS**
M. Fujioaka, T. Watanabe, T. Taoka, K. Okuchi, *Japan* 200
- 80 **CIRCULATING NITRIC OXIDE AND AUTONOMIC IMPAIRMENT IN THERAPEUTIC HYPOTHERMIA AFTER CARDIAC ARREST**
A. Jantanukul, S. Muengtaweepongsa, K. Suwanprasert, *Thailand* 689
- 81 **MOVING FROM A RODENT MODEL TO THE CLINIC IN STUDYING GLOBAL CEREBRAL ISCHEMIA WITH HSP70 AND ICAM-1 AS EARLY BIOMARKERS**
M. Jiang, E. Curfman, B.C. Hong-Goka, R.D. Sweazey, F.-L.F. Chang, *USA* 1054
- 82 **EARLY MEK ½ INHIBITION AFTER TRANSIENT FOREBRAIN ISCHEMIA PREVENTS DELAYED UPREGULATION OF VASOCONSTRICTOR RECEPTORS IN RAT CEREBRAL ARTERIES**
S.E. Johansson, S.S. Larsen, G.K. Povlsen, L. Edvinsson, *Denmark* 1192

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cardiac Arrest/Global Cerebral Ischemia (contd.)

Board No		Abstract No
83	FATTY ACID METHYL ESTERS CONFER NEUROPROTECTION AFTER CEREBRAL ISCHEMIA H.W. Lin, I. Saul, V.L. Gresia, S.V. Narayanan, J.T. Neumann, K.R. Dave, M.A. Perez-Pinzon, <i>USA</i>	594
84	IMPAIRED NMDA RECEPTOR FUNCTION IN PURKINJE NEURONS IN A MOUSE MODEL OF CARDIAC ARREST/CARDIOPULMONARY RESUSCITATION N. Quillinan, K. Shimizu, H. Grewal, R.J. Traystman, P.S. Herson, <i>USA</i>	784
85	ACTIVATION OF GLIAL CELLS AND REDISTRIBUTION OF WATER CHANNEL AQUAPRIN-4 IN RELATION TO BRAIN PATHOLOGY IN CARDIAC ARREST H.S. Sharma, R. Patnaik, A. Sharma, L. Wiklund, <i>Sweden, India</i>	67
86	VENTILATORY PATTERN VARIABILITY IS ASSOCIATED WITH LONG-TERM SURVIVAL FOLLOWING CARDIAC ARREST AND RESUSCITATION IN RATS K. Xu, Y. Kuang, T.E. Dick, F.J. Jacono, <i>USA</i>	865
87	CYP2C19 POLYMORPHISMS AND ANTIPLATELET EFFECTS OF CLOPIDOGREL IN ACUTE ISCHEMIC STROKE IN CHINA M. Zhang, Z. Chen, D. Jia, Y. Xu, <i>China</i>	534
88	EFFECT OF MCI-186 ON THE INTRACELLULAR CALCIUM AND MEMBRANE FLUIDITY IN THE RATS WITH FOCAL CEREBRAL INFARCTION M. Yu, <i>China</i>	1238
89	PROTECTIVE EFFECT OF DL-3-N-BUTYLPHTHALIDE ON RECOVERY FROM CARDIAC ARREST AND RESUSCITATION IN RATS L. Zhang, Y. Kuang, K. Xu, J.C. LaManna, <i>USA, China</i>	782

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:
Cell Death/Survival

Board No		Abstract No
90	NEURONAL DAMAGE AND GLIOSIS IN THE SOMATOSENSORY CORTEX INDUCED BY VARIOUS DURATIONS OF TRANSIENT CEREBRAL ISCHEMIA IN GERBILS J.H. Ahn, D.H. Lee, B.C. Yan, J.H. Park, J.-C. Lee, M.-H. Won, J.H. Cho, <i>Republic of Korea</i>	483
91	OSTHOLE ATTENUATES CEREBRAL ISCHEMIC NEUROINJURY VIA ENOS DEPENDENT AND NITRIC OXIDE MEDIATED ANTI-APOPTOTIC ACTION X.-D. Chao, Z. Fei, <i>China</i>	1274
92	RESP18 IS INVOLVED IN THE CYTOTOXICITY OF DOPAMINERGIC NEUROTOXINS IN MN9D CELLS Y. Huang, J. Xu, F. Huang, <i>China</i>	1175
93	PROGRESSION FROM FOCAL ISCHEMIA TO INFARCT FORMATION AFTER BARREL CORTEX STROKE IN MICE Q. Jiang, Y.Y. Zhao, T.C. Deveau, S.P. Yu, L. Wei, <i>USA</i>	1137
94	DIFFERENCES OF CALCIUM BINDING PROTEINS IMMUNOREACTIVITIES IN THE YOUNG HIPPOCAMPAL CA1 REGION FROM THE ADULT FOLLOWING TRANSIENT ISCHEMIC DAMAGE I.H. Kim, J.-H. Cho, J.H. Park, J.H. Cho, Y.L. Lee, M.-H. Won, B.C. Yan, <i>Republic of Korea</i>	481
95	AGMATINE SUPPORTS COGNITIVE FUNCTION VIA ITS PRO-SURVIVAL ACTIVITY OF HIPPOCAMPAL NEURONS IN RATS EXPOSED TO STREPTOZOTOCIN J.E. Lee, B.E. Hur, W. Yang, <i>Republic of Korea</i>	494
96	EFFECT OF SHEXIANGBAOXIN PILL ON LEFT VENTRICLE IN PRESSURE-OVERLOADED HYPERTROPHY RAT X. Liang, S. Li, L. Jinning, <i>China</i>	245
97	PROTECTIVE EFFECT OF HOMER1A ON TUMOR NECROSIS FACTOR-A WITH CYCLOHEXIMIDE-INDUCED APOPTOSIS IS MEDIATED BY MITOGEN-ACTIVATED PROTEIN KINASE PATHWAYS P. Luo, Z. Fei, <i>China</i>	1259

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cell Death/Survival (contd.)

Board No		Abstract No
98	THE ROLE OF THE A2A RECEPTOR IN CELL APOPTOSIS CAUSED BY MDMA M. Mehdizadeh, M. Soleimani, M. Katebi, <i>Iran</i>	265
99	HEXOKINASE II-MEDIATED HYPOXIA TOLERANCE - A MOLECULAR SWITCH GOVERNING CELLULAR FATE DEPENDING ON THE METABOLIC STATE P. Mergenthaler, J. Sünwoldt, K. Wendland, D.W. Andrews, A. Meisel, <i>Germany, Canada</i>	717
100	SERIAL EXPRESSION OF HYPOXIA INDUCIBLE FACTOR-1A AND NEURONAL APOPTOSIS IN HIPPOCAMPUS OF RATS WITH CHRONIC ISCHEMIC BRAIN C.T. Moon, Y.I. Chun, Y.C. Koh, <i>Republic of Korea</i>	193
101	ZINC PROMOTES HYPOXIC ASTROCYTES DEATH BY INCREASE HIF-1A EXPRESSION VIA PARP-1 R. Pan, C. Chen, W. Liu, K. Liu, <i>USA</i>	147
102	THE CHANGES OF GENE EXPRESSION PROFILING AFTER CEREBRAL INFARCTION IN RATS F.-F. Shi, P.-F. Huang, L. Yu, S.-S. Duan, C.-C. Ren, <i>China</i>	1079
103	INCREASED EXPRESSION OF TRPM7 CHANNELS IS ASSOCIATED WITH HYPERGLYCEMIA-MEDIATED INJURY OF VASCULAR ENDOTHELIAL CELLS H.-W. Sun, T.-D. Leng, Z. Zeng, X.-R. Gao, K. Inoue, Z.-G. Xiong, <i>China, USA</i>	1299
104	REMARKABLE INCREASE OF CYTOCHROME C OXIDASE SUBUNIT I AFTER GLOBAL CEREBRAL ISCHEMIA Y. Takahashi, T. Sugawara, T. Miyazaki, H. Itoh, K. Mizoi, <i>Japan</i>	1117
105	HEMIN-INDUCED PLASMALEMMA PERMEABILITY CONTRIBUTES TO AUTOPHAGIC CELL DEATH IN HT22 CELLS VIA REACTIVE OXYGEN SPECIES SIGNALING L. Wang, T. Wang, M. Zhang, L. Zhang, Y. Wang, P. Chang, W. Dong, X. Chen, L. Tao, <i>China</i>	174

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cell Death/Survival (contd.)

Board No		Abstract No
106	IDUNA PROTECTS HT22 CELLS FROM HYDROGEN PEROXIDE-INDUCED OXIDATIVE STRESS THROUGH INTERFERING POLY (ADP-RIBOSE) POLYMERASE-1-INDUCED CELL DEATH (PARTHANATOS) H.-X. Xu, Z. Fei, <i>China</i>	1281
107	EFFECTS OF PI3K/AKT SIGNALING PATHWAY ON MECHANICAL NEURONAL INJURY INDUCED AUTOPHAGY M.-M. Zhao, Z. Fei, <i>China</i>	1282

Cellular Mechanisms

108	BAICALIN PROTECTS PC-12 CELL FROM DEATH DUE TO OXIDATIVE STRESS INDUCED BY HYDROGEN PEROXIDE VIA JAK/STAT SIGNALING PATHWAY X. Cao, W.-X. Zheng, X. Yu, X. Hu, <i>China</i>	546
109	THE EXPRESSION AND MECHANISM OF MMP-9 IN THP-1 CELLS INDUCED BY INJURED ENDOTHELIAL CELLS F. Jiang, X. Qin, T. Tao, J. Feng, <i>China</i>	1289
110	ZINC OVERLOAD OR CALCIUM OVERLOAD IN ISCHEMIC NEURONAL DEATH Y.V. Li, C.J. Stork, <i>USA</i>	907
111	EFFECT OF ANGIO II ON APOPTOSIS AND MMPs IN ENDOTHELIAL AND SMCS, AND THE INFLUENCES OF XINKANG ON IT X. Liang, S. Li, L. Jinning, <i>China</i>	181
112	CROSS-TALK REGULATION OF NTS NEURONS IN THE ELECTROACUPUNCTURE (EA) ANALGESIA EFFECT IN RAT WITH COLORECTAL DISTENTION (CRD) K. Liu, L. Li, M.-D. He, X.-Y. Gao, B. Zhu, H. Ben, <i>China</i>	33
113	THE KINASE INHIBITORY REGION OF SOCS-3 REDUCED INTERLEUKIN-6 INDUCED PHOSPHORYLATION OF STAT3 IN PC12 H.-X. Lu, L. Wang, Y.-Y. Wang, Q. Jiao, Z.-R. Li, Y. Liu, <i>China</i>	280
114	DOPAMINE D5 RECEPTOR MODULATE G_{S/O}L_F/ADENYLYL CYCLASE-COUPLED D1 RECEPTOR PATHWAY AT PRESYNAPTIC SITES IN THE PRELIMBIC CORTEX W. Luan, P. Zheng, <i>China</i>	1227

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cellular Mechanisms (contd.)

Board No		Abstract No
115	MIR-324-3P INDUCES THE PROMOTER-MEDIATED EXPRESSION OF THE PRO-INFLAMMATORY RELA GENE AFTER ISCHEMIA A. Dharap, C. Pokrzywa, S. Murali, G. Pandi, R. Vemuganti , <i>USA</i>	1296
116	SYNERGY OF PPARγ AND MICRORNAS IN CNS R. Vemuganti , A. Dharap, <i>USA</i>	1294
117	INTERACTIONS BETWEEN SIRT1 AND MAPK/ERK REGULATE NEURONAL APOPTOSIS INDUCED BY TRAUMATIC BRAIN INJURY IN VITRO AND IN VIVO Y.-B. Zhao , Z. Fei, <i>China</i>	1260
Cerebral Hemorrhage/Subarachnoid Hemorrhage (SAH)/Vasospasm		
118	APT102, AN OPTIMIZED HUMAN APYRASE ALONE OR WITH RT-PA, IS BENEFICIAL IN THROMBOEMBOLIC STROKE MODELS S.-M. Ting, X. Zhao, G.-H. Sun, R. Chen, S.S. Jeong, J.C. Grotta, J. Aronowski , <i>USA</i>	226
119	THE NEUROPROTECTIVE EFFECTS OF BLOOD GLUTAMATE SCAVENGING IN A RAT MODEL OF SUBARACHNOID HEMORRHAGE M. Boyko , Y. Kezerle, I. Melamed, R. Kuts, D. Porat, A. Zhumadilov, S. Karibay, A. Zlotnik, <i>Israel, Kazakhstan</i>	1179
120	THE LECTIN PATHWAY IN SUBARACHNOID HEMORRHAGE PATIENTS M.-G. De Simoni , R. Zangari, T. Zoerle, F. Orsini, S. Parrella, V. Conte, N. Stocchetti, E.R. Zanier, <i>Italy</i>	609
121	COCHRANE SYSTEMATIC REVIEW: LUMBAR DRAINAGE OF CEREBROSPINAL FLUID FOR SUBARACHNOID HEMORRHAGE W. Dong , S. Lin, D. Wang, B. Wu, Z. Hao, M. Liu, <i>China</i>	1278
122	MIRNA PROFILING OF CEREBRAL VESSELS AFTER SUBARACHNOID HAEMORRHAGE A. Holt Müller , G.K. Povlsen, C.H. Bang-Berthelsen, L.S. Kruse, L. Edvinsson, <i>Denmark</i>	151
123	EFFECTS OF INTRAVENTRICULAR FIBRINOLYSIS ON CEREBRAL PERFUSION AND METABOLISM AFTER SEVERE INTRAVENTRICULAR HEMORRHAGE J.B. Kuramatsu, S. Schwab, H.B. Huttner , <i>Germany</i>	339

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebral Hemorrhage/Subarachnoid Hemorrhage (SAH)/Vasospasm (contd.)

Board No		Abstract No
124	DIRECT THROMBIN INHIBITOR DABIGATRAN AS TREATMENT IN EXPERIMENTAL INTRACEREBRAL HEMORRHAGE BRAIN MODEL S. Illanes, C. Urrutia, F. Vial, P. Conget, <i>Chile</i>	156
125	ADIPONECTIN PREVENTS THE INTRACEREBRAL HEMORRHAGE THROUGH STAT3 AND NF-KB MEDIATED MECHANISM H. Jang, B.-J. Kim, Y.-J. Kim, J. Noh, S. Yang, S.-H. Lee, B.-W. Yoon, <i>Republic of Korea</i>	725
126	INCREASED EXPRESSION OF EHD2 AFTER INTRACEREBRAL HEMORRHAGE IN ADULT RATS K. Ke, Y. Rui, <i>China</i>	373
127	SPONTANEOUS CORTICAL SPREADING DEPRESSION AFTER ACUTE SUBDURAL HEMATOMA IN RATS: INFLUENCE OF BLOOD CONSTITUENTS ON CSD AND LESION O. Kempfski, M. Plath, S. Tretzel, A. Heimann, B. Alessandri, <i>Germany</i>	153
128	SECONDARY LESION EXPANSION FOLLOWING ACUTE SUBDURAL HEMORRHAGE IN RATS O. Kempfski, E. Amoruso, A. Heimann, B. Alessandri, <i>Germany</i>	144
129	MODIFIED CLIPPING TECHNIQUE OF THE SMALL CAROTID CAVE ANEURYSMS USING FENESTRATED CLIPS THROUGH SMALL INCISION ON THE CAVERNOUS SINUS ROOF J. Kim, J. Cheong, C. Kim, <i>Republic of Korea</i>	112
130	EXSANGUINATION POSTCONDITIONING OF ICH - USING THE LANCET TO TREAT THE BLEED: PRELIMINARY STUDY IN RODENTS T. Lekic, W. Rolland, P. Krafft, J. Tang, J. Zhang, <i>USA</i>	906
131	ATORVASTATIN INDUCES CEREBRAL HEMORRHAGE BY DAMAGING BLOOD VESSEL STABILITY VIA MEVALONATE AND SRC/VE-CADHERIN PATHWAYS IN HUMAN ENDOTHELIAL CELL AND ZEBRAFISH S. Li, Z.Y. Zhou, M.P.M. Hoi, W.C. Hang, Y.W. Kwan, S.W. Chan, G.P.H. Leung, S.M.Y. Lee, <i>China</i>	1277
132	TREATMENT RESULT OF THE DISTAL INTERNAL CAROTID ARTERY ANEURYSM, MICROSURGICAL VS ENDOVASCULAR THERAPIES D.-J. Lim, S.-H. Kim, S.-D. Kim, S.-K. Ha, <i>Republic of Korea</i>	321

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebral Hemorrhage/Subarachnoid Hemorrhage (SAH)/Vasospasm (contd.)

Board No		Abstract No
133	ROLE OF ENDOTHELIUM DERIVED FACTORS IN CORTICAL SPREADING ISCHEMIA INDUCED VASOCONSTRICTION OF ISOLATED RAT MCA U. Lindauer, I. Eskina, S. Pinkernell, B. Meyer, <i>Germany</i>	881
134	ANTI-MITOGENIC TREATMENTS VIA SRC INHIBITION IN INTRAVENTRICULAR HEMORRHAGE D.Z. Liu, B.P. Ander, X. Zhan, B. Stamova, G.C. Jickling, F.R. Sharp, <i>USA</i>	201
135	THROMBIN HAS A ROLE IN HYDROCEPHALUS DEVELOPMENT AFTER INTRAVENTRICULAR HEMORRHAGE F. Liu, Z. Chen, Y. Hua, R.F. Keep, G. Xi, <i>USA</i>	955
136	S100B PLAYS A KEY ROLE IN SUBARACHNOID HEMORRHAGE (SAH)-ASSOCIATED CEREBROVASCULAR DYSFUNCTION AND NEUROPATHOLOGY C. Paisansathan, H. Xu, P. Polak, D. Pelligrino, <i>USA</i>	428
137	GENE SIGNATURE AND CO-OCCURRENCE OF TRANSCRIPTION FACTOR BINDING MOTIFS IN SUBARACHNOID HAEMORRHAGE A.K. Samraj, A.H. Mueller, L. Edvinsson, <i>Denmark</i>	1263
138	DELETION OF THE PROSTAGLANDIN E2 EP1 RECEPTOR AGGRAVATES HEMORRHAGIC INJURY AND COGNITIVE DEFICITS N. Singh, B. Ma, S. Narumiya, S. Doré, <i>USA, Japan</i>	1208
139	EFFECT OF HUMAN ALBUMIN IN CEREBRAL BLOOD FLOW, DELAYED CEREBRAL ISCHEMIA, AND CEREBRAL INFARCTION IN SUBARACHNOID HEMORRHAGE (ALISAH STUDY) J. Suarez, R.H. Martin, E. Calvillo, The ALISAH Study Investigators, <i>USA</i>	290
140	SITUATIONAL REVIEW OF ABNORMAL MOTOR EVOKED POTENTIAL (MEP) DURING ANEURYSM CLIPPING J.H. Sung, J. Huh, S.W. Lee, <i>Republic of Korea</i>	724
141	NLRP3 INFLAMMASOME MEDIATED BY MITOCHONDRIA ROS CONTRIBUTES TO INFLAMMATORY RESPONSE FOLLOWING INTRACEREBRAL HEMORRHAGE IN MICE J. Tang, Q. Ma, J.H. Zhang, <i>USA</i>	808

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebral Hemorrhage/Subarachnoid Hemorrhage (SAH)/Vasospasm (contd.)

Board No		Abstract No
142	ROLE OF FERRIC IRON TRANSPORTERS WHEN IRON ACCUMULATION IN BRAIN AFTER RAT INTRACEREBRAL HEMORRHAGE G. Wang, S. Meng, W. Hu, <i>China</i>	152
143	UROCORTIN REDUCES BRAIN INJURY FOLLOWING CEREBRAL HEMORRHAGE PARTIALLY VIA PI3K/AKT AND GSK-3B SIGNALING PATHWAYS J.-Y. Wang, H. Liew, C. Pang, G.S. Chen, <i>Taiwan R.O.C.</i>	706
144	CHARACTERISTICS OF ETIOLOGICAL DIAGNOSTIC WORKUP ACROSS THE PAST 10 YEARS IN PATIENTS WITH SPONTANEOUS INTRACEREBRAL HEMORRHAGE IN A CHINESE HOSPITAL Q. Wang, <i>China</i>	1031
145	COAGULATION STATUS AND MMPS DID NOT CORRELATE TO BRAIN MICRO BLEEDINGS IN CIRRHOTIC PATIENTS J. Ding, D. Lin, X. Wang, <i>China</i>	184
146	EFFECTS OF LYMPHATIC DRAINAGE PATHWAY ON NEURAL STEM CELLS PROLIFERATION, DIFFERENTIATION AND PLASTICITY AFTER SUBARACHNOD HEMORRHAGE L. Xichang, B.-L. Sun, <i>China</i>	1148
147	EFFECT OF GINKGOLIDES AGAINST BRAIN EDEMA AND NEURON ULTRASTRUCTURAL INJURY ON SAH RATS WITH CEREBRAL LYMPHATIC BLOCKADE L. Xichang, B.-L. Sun, <i>China</i>	1147
148	S100B, BUT NOT HMGB1, MEDIATES SUBARACHNOID HEMORRHAGE (SAH)-ASSOCIATED CEREBROVASCULAR DYSFUNCTION AND NEUROPATHOLOGY H. Xu, C. Paisansathan, P. Polak, D.A. Pelligrino, <i>USA</i>	437
149	COMPARISON BETWEEN THE FORMULA 1/2ABC AND 2/3SH IN INTRACEREBRAL PARENCHYMA HEMORRHAGE J. Yan, K. Zhao, J. Sun, W. Yang, Y. Qiu, T. Kleinig, Y. Fu, S. Chen, <i>China, Australia</i>	1088

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebral Hemorrhage/Subarachnoid Hemorrhage (SAH)/Vasospasm (contd.)

Board No

Abstract No

- 150 **FINGOLIMOD REDUCES CEREBRAL LYMPHOCYTE INFILTRATION IN EXPERIMENTAL MODELS OF RODENT INTRACEREBRAL HEMORRHAGE**
W. Rolland, T. Letic, P. Krafft, Y. Hasegawa, O. Altay, R. Hartman, R. Ostrowski, A. Manaenko, J. Tang, **J. Zhang**, *USA* 818
- 151 **INTRANASAL ADMINISTRATION OF CALCITONIN GENE-RELATED PEPTIDE ALLEVIATES CEREBRAL VASOSPASM IN RATS FOLLOWING SUBARACHNOID HEMORRHAGE**
B.-L. Sun, F.-P. Shen, M.-F. Yang, D.-W. Li, Z.-Y. Zhang, H. Yuan, F.-M. Xie, J. Chen, F. Zhang, *China, USA* 1023

Cerebral Metabolic Regulation

- 152 **A STUDY OF CORRELATION BETWEEN HYPOPERFUSION OF THE LANGUAGE CENTER AND APHASIA IN PATIENTS WITH MOYAMOYA DISEASE**
L. Duan, *China* 1118
- 153 **DYNAMIC MODELING OF LAYER SPECIFIC CORTICAL TEMPERATURE FOR QUANTITATIVE FMRI**
A. Gaglianese, P. Herman, P. Pietrini, F. Hyder, *USA, Italy* 305
- 154 **EFFECTS OF GLP-1 ON GLUCOSE TRANSPORT AND PHOSPHORYLATION CAPACITIES IN HUMAN BRAIN**
M. Gejl, S. Lerche, L. Egefjord, J.J. Holst, B. Brock, N. Møller, J. Rungby, **A. Gjedde**, *Denmark* 729
- 155 **GLUTAMATERGIC FUNCTION IN RESTING HUMAN BRAIN DEMANDS UNIFORMLY HIGH OXIDATIVE ENERGY**
F. Hyder, R.K. Fulbright, R.G. Shulman, D.L. Rothman, *USA* 834
- 156 **CONSERVED CORTICAL ENERGY DEMANDS OF SIGNALING AND NON-SIGNALING COMPONENTS ACROSS ACTIVITY LEVELS IN MAMMALIAN BRAIN**
F. Hyder, D.L. Rothman, M.R. Bennett, *USA, Australia* 830
- 157 **SCALING OF BRAIN METABOLISM AND HEMODYNAMICS IN RELATION TO CAPILLARY SCALING**
J. Karbowski, *Poland* 803

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebral Metabolic Regulation (contd.)

- 158 **CEREBRAL BLOOD FLOW RESPONSE OF INTRAVENOUS ADENOSINE INFUSION**
J.M. Lynch, E. Buckley, P. Schwab, M. Feldman, M. Harris, D.J. Licht, A.G. Yodh, *USA* 446
- 159 **COMPARISON OF NITRIC OXIDE PRODUCTION BETWEEN ANGIOTENSIN II TYPE 1A RECEPTOR KNOCKOUT MICE AND TYPE 2 RECEPTOR KNOCKOUT MICE**
R. Nishioka, M. Yamazato, Y. Ito, A. Miyake, M. Hirayama, K. Ishizawa, M. Sawada, Y. Asano, N. Araki, *Japan* 713
- 160 **EFFECT OF NON-STEROIDAL ANTI-INFLAMMATORY DRUG CELECOXIB ON CEREBRAL GLUCOSE METABOLISM IN RAT BRAIN SLICES AS MEASURED BY DPAT**
T. Asai, S. Fukumoto, W. Wang, H. Okazawa, *Japan* 692
- 161 **CIGARETTE SMOKING SIGNIFICANTLY ALTERS WHOLE BRAIN CEREBRAL BLOOD FLOW AND OXYGEN CONSUMPTION**
M.S. Vafae, P. Cumming, N. Imamirad, K. Vang, A. Gjedde, *Denmark, Germany* 171

Cerebrovascular Regulation

- 162 **TIME TO INCLUDE THE NITRATE TO NO PATHWAY IN CEREBROVASCULAR PHYSIOLOGY**
R. Aamand, T. Dalsgaard, Y.-C. Lynn Ho, A. Møller, A. Roepstorff, T.E. Lund, *Denmark* 511
- 163 **QUANTIFICATION OF COLLATERAL FLOW DYNAMICS BY DOPPLER OCT FOLLOWING STROKE IN A MOUSE MODEL OF TYPE 2 DIABETES**
Y. Akamatsu, C.C. Lee, L. Shi, R. Wang, J. Liu, *USA* 901
- 164 **MAPPING REGIONAL RATE OF CHANGE IN CBF IN RESPONSE TO CHANGES IN PACO₂: A COMBINED MR-ASL AND PHASE-CONTRAST STUDY**
N. Alperin, A. Bagci, *USA* 888
- 165 **CEREBROVASCULAR DYSFUNCTION IN NEWBORNS WITH HYPOXIC ISCHEMIC ENCEPHALOPATHY (HIE): CAN "NON-RESPONDERS" BE IDENTIFIED DURING THERAPEUTIC HYPOTHERMIA (TH)?**
L. Chalak, P. Sanchez, R. Zhang, *USA* 890

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebrovascular Regulation (contd.)

Board No		Abstract No
166	NEURAL OVER-EXPRESSION OF ACE2 DECREASES MCAO-INDUCED CEREBRAL INJURY PARTIALLY THROUGH BP-INDEPENDENT MECHANISMS J. Chen, S. Chen, J. Wang, C. Zhang, X. Xiao, W. Zhang, B. Zhao, Y. Chen, <i>USA, China</i>	191
167	WAVELET CROSS-CORRELATION ANALYSIS ON RELATIONSHIP BETWEEN CEREBRAL OXYHAEMOGLOBIN AND ARTERIAL BLOOD PRESSURE R. Cui, W. Li, W. Zhou, L. Lu, Q. Han, Y. Gao, Z. Li, <i>China</i>	485
168	ABBREVIATED TITLE: 20-HETE SYNTHESIS EXPLAINS REDUCED CBF AFTER CSD J. Fordsmann, R. Koh, H.B. Choi, K.J. Thomsen, B.M. Witgen, C. Mathiesen, M. Lønstrup, H. Piilgaard, B. Macvicar, M. Lauritzen , <i>Denmark, Canada</i>	1307
169	RETROGRADE DIASTOLIC BLOOD FLOW IN THE MIDDLE CEREBRAL ARTERIES DURING NEUROCARDIOGENIC SYNCOPE A. Gergont, M. Kacinski, A. Biedron, <i>Poland</i>	1245
170	DYNAMIC CEREBRAL BLOOD FLOW MEASUREMENTS DISTINGUISH UPSTREAM BLOOD SUPPLY FROM LOCAL MICROVASCULAR TONE R. Graf, M. Takagaki, H. Backes, M. Gramer, D. Feuerstein , <i>Germany, Japan</i>	864
171	STATE-DEPENDENT RESTING-STATE COHERENCE BETWEEN NEURAL ACTIVITY AND BLOOD FLOW P. Herman, R.N.S. Sachdev, Y. Yu, B.G. Sanganahalli, H. Blumenfeld, D.A. McCormick, F. Hyder , <i>USA, China</i>	604
172	CEREBRAL ARTERIAL PULSATION DRIVES PARAVASCULAR CEREBROSPINAL FLUID-INTERSTITIAL FLUID EXCHANGE J. Iliff, M. Wang, M. Nedergaard, <i>USA, China</i>	347
173	RELATION BETWEEN HEART RATE VARIABILITY AND NITRIC OXIDE TO CEREBRAL AUTOREGULATION DURING BREATH HOLDING INDUCED-HYPERCAPNIA IN HEALTHY SUBJECTS K. Intharakham, K. Suwanpraser, <i>Thailand</i>	691

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebrovascular Regulation (contd.)

Board No		Abstract No
174	CORTICAL SPREADING DEPRESSION EVOKED CHANGES IN OXYGEN CONSUMPTION AND CEREBRAL BLOOD FLOW IN NMRI AND C57BL6/J MICE L. Khennouf, B. Gesslein, M. Lauritzen, <i>Denmark</i>	587
175	ENDOTHELIAL DYSFUNCTION IN HYPERTENSIVE RATS HAMPERS THE EFFECT OF G-CSF ON PIAL ARTERIOGENESIS K. Kitagawa, Y. Sugiyama, Y. Yagita, T. Yukami, N. Oyama, T. Sasaki, H. Mochizuki, <i>Japan</i>	230
176	POSTNATAL DEVELOPMENT OF NEUROVASCULAR COUPLING AT A CELLULAR AND MICROVASCULAR LEVEL M.G. Kozberg, L.E. Grosberg, E.M.C. Hillman, <i>USA</i>	793
177	BOLD FMRI OF CEREBROVASCULAR RESERVE IN PATIENTS WITH SEVERE ARTERIAL STENOSIS: A LATERALITY INDEX APPROACH A. Krainik, A. Attye, O. Detante, F. Tahon, I. Troprès, L. Lamalle, J. Pietras, J.-L. Magne, J.-F. Le Bas, <i>France</i>	545
178	MICRO-VASCULAR CBF RESPONSE TO HYPERCAPNIA IN HEALTHY ADULTS AT ELEVATED HEAD-OF-BED POSITION (HOB) C. Lindner, U. Weigel, P. Zirak, J. Tercero, I. Gracia, E. Carrero, R. Valero, N. Fabregas, T. Durduran, <i>Spain</i>	1291
179	ECDYSTERONE ATTENUATES METABOLITE ABNORMALITIES AND GLUTAMATE DISORDERS IN SUBARACHNOID HEMORRHAGE RABBIT: A MICRODIALYSIS STUDY Z. Liu, Y. Chen, Z. Chen, H. Feng, <i>China</i>	1266
180	AUTOREGULATION OF CEREBRAL CIRCULATION IN PROGRESSIVE HEART FAILURE AND ITS RELATIONSHIP TO SEIZURE READINESS M. Mamalyga, <i>Russia</i>	1182
181	HEMODYNAMIC CHANGES DURING WHISKER STIMULATION IN AWAKE AND ANESTHETIZED MICE EXAMINED BY LASER-DOPPLER FLOWMETRY T. Matsuura, H. Takuwa, T. Obata, H. Kawaguchi, I. Kanno, H. Ito, <i>Japan</i>	1001

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Cerebrovascular Regulation (contd.)

Board No		Abstract No
182	EFFECTS OF BRAIN PARTIAL ISCHEMIA ON MITOCHONDRIAL FUNCTION AND MICROCIRCULATORY BLOOD FLOW IN BRAIN AND SMALL INTESTINE UNDER HEMORRHAGIC HYPOTENSION M. Mandelbaum-Livnat, E. Barbiro-Michaely, A. Mayevsky , <i>Israel</i>	1042
183	BRAIN METASTASIS INDUCES ASTROCYTE ACTIVATION AND ALTERS NEUROVASCULAR COUPLING IN THE RAT S. Serres , M. Sarmiento Soto, C.J. Martin, C. Escartin, G. Bonvento, N.R. Sibson, <i>UK, France</i>	523
184	REGULATION OF BASAL CEREBRAL BLOOD FLOW BY DIETARY NITRITE AND ASCORBIC ACID IN OSTEOGENIC DISORDER SHIONOGI (ODS) RATS B. Pikhova, J.W. Park, S.E. Todd, A.N. Schechter, A.C. Silva , <i>USA</i>	779
185	TRPM7 REGULATES VASCULAR ENDOTHELIAL CELL ADHESION, MIGRATION AND ANGIOGENESIS Z. Zeng, H.-W. Sun , T.-D. Leng, X.-C. Feng, L. Zhu, K. Inoue, Z.-G. Xiong, <i>USA, China</i>	1297
186	AUTOREGULATORY VASODILATATION AND REDUCED CEREBRAL CIRCULATION RESERVE DUE TO CAROTID ARTERY OCCLUSION MEASURED BY TWO-PHOTON LASER MICROSCOPE IN MICE Y. Tajima , H. Takuwa, H. Kawaguchi, J. Taniguchi, Y. Ikoma, K. Masamoto, C. Seki, I. Kanno, H. Ito, <i>Japan</i>	240
187	HEMODYNAMIC CHANGES IN CROSSED CEREBELLAR DIASCHISIS MEASURED BY LASER-DOPPLER FLOWMETRY IN AWAKE MICE H. Takuwa , Y. Tajima, H. Kawaguchi, J. Taniguchi, Y. Ikoma, K. Masamoto, C. Seki, I. Kanno, H. Ito, <i>Japan</i>	500
188	NORADRENERGIC MODULATION OF THE SENSORY-EVOKED NEUROVASCULAR COUPLING RESPONSE IN THE RAT X. Toussay , E. Hamel, <i>Canada</i>	576
189	DIFFERENT RESPONSE IN DIAMETER OF PIAL VESSELS AND IN CEREBRAL BLOOD FLOW ASSOCIATED WITH CORTICAL SPREADING DEPRESSION IN ANESTHETIZED MICE M. Unekawa, Y. Tomita, H. Toriumi, T. Osada, K. Masamoto , H. Kawaguchi, Y. Itoh, I. Kanno, N. Suzuki, <i>Japan</i>	1016

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:
Cerebrovascular Regulation (contd.)

Board No		Abstract No
190	HUK EXERTS A NEUROPROTECTIVE EFFECT BY REGULATING GLUCOSE METABOLISM IN EXPERIMENTAL STROKE <i>J. Li, Y. Xu, China</i>	540
191	DYSFUNCTION AND RECOVERY OF ENDOTHELIAL TRPV4 CHANNELS IN PATHOLOGIES OF THE CEREBRAL CIRCULATION RELATED TO ALZHEIMER'S DISEASE <i>L. Zhang, E. Hamel, Canada</i>	543
192	COMPARISON OF BLOOD VELOCITY AND VOLUMETRIC FLOW IN MIDDLE CEREBRAL AND INTERNAL CAROTID ARTERY DURING STEPWISE CHANGES IN BLOOD PRESSURE <i>J. Liu, C. Hill, K. Armstrong, T. Tarumi, A.M. Stowe, R. Zhang, USA</i>	887
193	NEURO-CAPILLARY COUPLING IN VIVO <i>J. Lee, W. Wu, D.A. Boas, USA</i>	190

Clinical Studies

194	INTRACRANIAL TUMORS IN INFANTS: A FORTY-THREE YEAR REVIEW OF A SINGLE INSTITUTION EXPERIENCE IN SASKATCHEWAN, CANADA <i>K. Ali, Canada</i>	1133
195	EMBRYOLOGIC ASSOCIATION OF TOMWALDT'S CYST WITH CEREBRAL ARTERY ABNORMALITIES <i>A. Badr, M.F. Osborn, N. Akle, J. Zhang, USA</i>	980
196	CLINICAL FEATURES, SURGICAL TREATMENT, AND LONG-TERM OUTCOME IN ADULT PATIENTS WITH MOYAMOYA DISEASE IN CHINA <i>L. Duan, China</i>	1116
197	A RETROSPECTIVE STUDY ON THE DIAGNOSES AND TREATMENT OF 4462 CASES WITH SEVERE TRAUMATIC BRAIN INJURY <i>Z. Fei, China</i>	1279
198	EFFICACY AND LIMITATIONS OF INTRAOPERATIVE MOTOR EVOKED POTENTIAL MONITORING IN CEREBRAL ANEURYSM SURGERY <i>N. Higashiyama, T. Yanagisawa, T. Sugawara, T. Sasajima, K. Mizoi, Japan</i>	1154

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:
Clinical Studies (contd.)

Board No		Abstract No
199	LONG-TERM ONGOING CORTICAL REMODELING AFTER CONTRALATERAL C7 NERVE TRANSFER X.-Y. Hua, W.-D. Xu, <i>China</i>	936
200	LONG TERM FOLLOW-UP RESULTS IN 142 ADULT PATIENTS WITH MOYAMOYA DISEASE ACCORDING TO MANAGEMENT MODALITY P.W. Huh, <i>Republic of Korea</i>	196
201	LONG TERM RESULT OF THE REVASCLARIZATION SURGERY IN THE HEMORRHAGIC MOYAMOYA DISEASE P.W. Huh, <i>Republic of Korea</i>	195
202	PRACTICAL CLINICAL USE OF DSC-MRI FOR SURGICAL TREATMENT OF MOYAMOYA DISEASE Y. Ishii, T. Nariai, Y. Tanaka, M. Mukawa, M. Inaji, T. Maehara, K. Ohno, <i>Japan</i>	248
203	CEREBRAL HAEMODYNAMICS DURING SEIZURES IN UNCONSCIOUS CHILDREN F. Kirkham, C. Newton, <i>UK</i>	1302
204	CORTICAL GLUCOSE HYPOMETABOLISM CORRELATES WITH DECREASED CORTICAL THICKNESS IN CORTICOBASAL DEGENERATION: [18F]FDG PET AND MRI STUDY C.S. Lee, S.M. Kim, S.J. Kim, J.S. Kim, J.M. Lee, <i>Republic of Korea</i>	1197
205	SUBSTANCE P LEVEL AS A MARKER OF DYSPHAGIA IN POST-STROKE PATIENTS S. Matsumoto, M. Shimodozono, R. Miyata, K. Toyama, K. Kawahira, <i>Japan</i>	1191
206	THIRD VENTRICLE MORPHOLOGY AS A PREDICATOR OF ENDOSCOPIC THREE VENTRICULOSTOMY SUCCESS X.F. Min, <i>China</i>	1253
207	HEMISPHERIC ASYMMETRY OF CEREBROSPINAL FLUID CIRCULATION AND OF SKULL BIOMECHANICS Y.E. Moskalenko, G.B. Weinstein, N.A. Ryabchikova, P. Halvorson, T.C. Vardy, T.I. Kravchenko, <i>Russia, USA, Australia</i>	107

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Clinical Studies (contd.)

Board No		Abstract No
208	IMPROVED CEREBRAL HEMODYNAMICS AND FUNCTION OF MOYAMOYA DISEASE WITH USE OF PET GUIDED INDIRECT-BYPASS SURGERY T. Nariai, M. Inaji, S. Image, M. Mukawa, Y. Ishii, T. Kudo, Y. Tanaka, T. Maehara, K. Ishiwata, K. Oda, K. Ishii, <i>Japan</i>	538
209	GLYCO-PROTEOMIC STUDY OF THERAPEUTIC HYPOTHERMIA IN GLOBAL ISCHEMIC BRAIN INJURY POST CARDIAC ARREST J. Cao, F.S. Buonanno, K. Feeney, M. Elia, H. Koop, D. McMullin, S.-Z. Guo, K. Arai, E.H. Lo, M. Ning, <i>USA</i>	608
210	PLASMA PROTEOMIC CHANGES PERSIST IN LONG TERM FOLLOW-UP OF PATENT FORAMEN OVALE RELATED STROKE PATIENTS AFTER PFO CLOSURE M. Ning, M. Lopez, D. Sarracino, K. Feeney, M. Thayer, M. Elia, H. Koop, D. McMullin, Z. Demirjian, I. Inglessis-Azuaje, S. Silverman, G.W. Dec, I. Palacios, E.H. Lo, F.S. Buonanno, <i>USA</i>	606
211	DURAL ARTERIOVENOUS FISTULA ASSOCIATED WITH HEMANGIOPERICYTOMA IN TRANSVERSE SINUS M. Oda, T. Sasajima, M. Takahashi, T. Ono, S. Takahashi, K. Mizoi, <i>Japan</i>	1196
212	FOLLOW-UP STUDY OF SPONTANEOUS INTRACRANIAL ARTERIAL DISSECTIONS H. Ono, H. Nakatomi, H. Imai, N. Saito, <i>Japan</i>	942
213	CYTOFLAVIN ANTIOXIDANT THERAPY IMPROVES CLINICAL, MRI AND ELECTROENCEPHALOGRAPHY PARAMETERS IN ACUTE ISCHEMIC STROKE A. Orlova, S. Rumiantseva, E. Silina, S. Bolevich, <i>Russia</i>	424
214	ELEVATED THYROID AUTOANTIBODIES IN YOUNG STROKE PATIENTS WITH INTRACRANIAL LARGE ARTERY STENOSIS (ILAS): A RETROSPECTIVE STUDY Z. Shi, X. Zhang, Z. Chen, M. Lou, <i>China</i>	1167
215	MONTREAL COGNITIVE ASSESSMENT FOR TRAUMATIC BRAIN INJURY PATIENTS WITH INTRACRANIAL HAEMORRHAGE G.K.C. Wong, K. Ngai, W.S. Poon, <i>Hong Kong S.A.R.</i>	915

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Clinical Studies (contd.)

Board No		Abstract No
216	EXTENT OF EARLY CEREBRAL INFARCTION AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE: RISK FACTOR AND PROGNOSTIC SIGNIFICANCE G.K.C. Wong, J. Leung, J. Yu, D. Siu, S. Lam, W.S. Poon, <i>Hong Kong S.A.R.</i>	914
217	PERIPHERAL CROSS-NEUROTIZATION INDUCING UNAFFECTED HEMISPHERE REORGANIZATION TO ENHANCE THE MOTOR CONTROL OF THE SPASTIC HEMIPLEGIC HAND IN CENTRAL NEUROLOGIC INJURY W.-D. Xu, <i>China</i>	935
218	RISK FACTORS FOR VERTEBRAL ARTERY STENT-TREATED STROKE PATIENTS TO DEVELOP IN-SENT RESTENOSIS J. Li, Y. Lin, M. Zhang, L. Qian, Y. Xu, <i>China</i>	547
219	DIABETES-SPECIFIC ENTERAL NUTRITION MODULATION THE IMMUNE-FUNCTION AND INSULIN RESISTANCE AFTER ACUTE ISCHEMIC STROKE X. Zhang, W. Heng, Y. Xu, <i>China</i>	1199
220	FAS LIGAND INDUCED BRAIN INFLAMMATION AFTER ISCHEMIC STROKE AND ATTENUATES BY HUMAN URINARY KALLIDINOGENASE X. Zhang, Y. Xu, <i>China</i>	1177
221	CORTICAL REGIONS RELATED TO APRAXIA IN PATIENTS WITH CORTICOBASAL DEGENERATION: [18F]FDG PET AND MRI STUDY C.S. Lee, S.M. Kim, S.J. Kim, J.S. Kim, J.M. Lee, <i>Republic of Korea</i>	1204

CNS Immune Interactions

222	STREPTOCOCCUS PNEUMONIAE INFECTION DRIVES ATHEROGENESIS AND AUGMENTS CEREBROVASCULAR PATHOLOGIES IN ISCHAEMIA VIA IL-1- AND PLATELET-MEDIATED SYSTEMIC INFLAMMATORY MECHANISMS A. Denes, J. Pradillo, C. Drake, P. Warn, K.N. Murray, B. Rohit, D. Dockrell, S. Francis, B. Nieswandt, N. Rothwell, S.M. Allan, <i>UK, Hungary</i>	381
223	CNS-IMMUNE INTERACTIONS DURING CHRONIC STRESS AND ITS REGULATION BY NITRIC OXIDE (NO) IN RATS A. Ray, K. Gulati, <i>India</i>	796

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Hypoxia/Ischemia in the Developing Brain

Board No		Abstract No
224	NEUROPEPTIDE -Y CONTRIBUTES TO HYPOXIC REMODELING OF OVINE MIDDLE CEREBRAL ARTERIES O.O. Adeoye, J. Silpanisong, K. Latschaw, J.M. Williams, W.J. Pearce, USA	857
225	PROFOUND NEUROPROTECTIVE EFFECTS OF TRKB RECEPTOR AGONIST 7,8-DHF IN FEMALE THAN MALE MICE AFTER PERINATAL HYPOXIA AND ISCHEMIA V. Chanana, K. Uluc, P. Kendigelen, L. Zhang, D. Kintner, E. Akture, K. Ye, P. Ferrazzano, D. Sun, P. Cengiz, USA, Turkey	1057
226	AGE-DEPENDENT MICROGLIAL RESPONSES AFTER HYPOXIA-ISCHEMIA V. Chanana, K. Uluc, E. Fidan, E. Akture, D. Kintner, P. Cengiz, D. Sun, P. Ferrazzano, USA	1056
227	COMPARISON OF THE IMMUNOREACTIVITIES OF NMDA RECEPTORS BETWEEN THE YOUNG AND ADULT HIPPOCAMPAL CA1 INDUCED BY TRANSIENT CEREBRAL ISCHEMIA B.H. Chen, C.H. Lee, J.H. Park, M.-H. Won, J.H. Cho, Y.L. Lee, Republic of Korea	488
228	MODELLING BLOOD FLOW AND METABOLISM IN THE PIGLET BRAIN DURING HYPOXIA-ISCHAEMIA: SIMULATING INTRACELLULAR PH T. Hapuarachchi, T. Moroz, A. Bainbridge, S. Faulkner, D. Price, E. Powell, T. Zhu, E. Baer, K.D. Broad, D. Thomas, E. Cady, N. Robertson, X. Golay, I. Tachtsidis, UK	431
229	NEURAL STEM CELLS WITH HIGH MITOTIC ACTIVITY EXIST IN THE INJURED AREA OF NEONATAL BRAIN AFTER HYPOXIC ISCHEMIC INSULT J. Kido, K. Momosaki, D. Fujisawa, H. Mori, S. Matsumoto, H. Mitsubuchi, F. Endo, M. Iwai, Japan	1234
230	HYPOXIC PRECONDITIONING PREVENTS THE LOSS OF MYELIN FOLLOWING HYPOXIC-ISCHAEMIC INJURY IN THE NEWBORN RAT N.M. Jones, E. Suryana, Australia	542

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Hypoxia/Ischemia in the Developing Brain (contd.)

Board No		Abstract No
231	TRANSIENT POSTNATAL HYPOXIA INCREASES CORTICAL CAPILLARY DENSITY IN MICE J.C. LaManna, C. Tsipis, X. Sun, T. Radford, G. Babcock, W.F. Boron, K. Xu, <i>USA</i>	840
232	NEUROPROTECTIVE EFFECTS OF GLYCINE AGAINST HYPOXIC- ISCHEMIC BRAIN INJURY IN NEONATAL RATS K. Momosaki, H. Mori, J. Kido, M. Iwai, <i>Japan</i>	648
233	A SLICE CULTURE MODEL OF PERINATAL HYPOXIA-ISCHEMIA SHOWS NEUROPROTECTION BY HYPOTHERMIA A. Phillips M. Porambo, M.A. Wilson, I. Shats, J.D. Rothstein, M.V. Johnston, A. Fatemi, <i>USA</i>	1047
234	PERINATAL ASPHYXIA DECREASES NEURONAL BRANCHING AND SYNAPTOGENESIS IN RAT HIPPOCAMPUS. IMPLICATION OF ASTROCYTE REACTIVITY AND HIF-1ALPHA E. Rojas-Mancilla, T. Neira-Peña, C. Kraus, B. Rivera, R. Pérez, Á. Álvarez, D. Bustamante, P. Morales, L. Leyton, M. Herrera-Marschitz, <i>Chile</i>	9
235	NEUROPROTECTIVE EFFECTS OF METHANE IN AN NEONATAL HYPOXIA-ISCHEMIA RAT MODEL Y. Zhou Heng, J. Shi, Z. Kang, X. Sun, <i>China</i>	1067
236	NON-INVASIVE IN-VIVO BRAIN BIOMARKERS IN PERINATAL HYPOXIA-ISCHAEMIA I. Tachtsidis, A. Bainbridge, S. Faulkner, D. Price, E. Powell, T. Zhu, E. Baer, K.D. Broad, D. Thomas, E. Cady, N. Robertson, X. Golay, <i>UK</i>	380
237	G-CSF-INDUCED PROTECTION AGAINST HYPOXIC-ISCHEMIC BRAIN INJURY IN NEONATAL RATS INVOLVES CORTICOSTERONE SYNTHESIS INHIBITION VIA JAK2/PI3K/PDE PATHWAY AND CAMP DEGRADATION J. Tang, M. Charles, J.H. Zhang, <i>USA</i>	634
238	THE EFFECTS OF HYPOXIC POSTCONDITIONING IN A NEONATAL RAT MODEL OF HYPOXIC-ISCHAEMIC BRAIN INJURY J.D. Teo, M.J. Morris, N.M. Jones, <i>Australia</i>	557

Tuesday, May 21, 2013

09:00-19:00

Poster Area

Poster Session I:

Hypoxia/Ischemia in the Developing Brain (contd.)

Board No		Abstract No
239	DOPAMINE D1- AND ADENOSINE 2A-RECEPTOR ANTAGONISTS HAVE ADDITIVE NEUROPROTECTION IN NEONATAL HYPOXIA-ISCHEMIA B. Wang , Z.-J. Yang, A.C. Larsen, J.L. Jamrogowicz, E. Kulikowicz, L.J. Martin, R.C. Koehler, <i>USA</i>	592
240	ADENOSINE 2A RECEPTORS CONTRIBUTE TO STRIATAL INJURY AFTER NEONATAL HYPOXIA-ISCHEMIA Z. Yang , B. Wang, H. Kwansa, K.D. Heitmiller, G. Hong, L.J. Martin, R.C. Koehler, <i>USA</i>	397
Neuroprotection		
241	HONOKIOL FOR NEUROPROTECTION IN THE DEVELOPING RAT BRAIN A. Woodbury , S.-P. Yu, L. Wei, <i>USA</i>	924



International Society for
Cerebral Blood Flow & Metabolism



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POSTER SESSION II

WEDNESDAY, MAY 22, 2013





Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
CNS Repair and Regeneration

Board No		Abstract No
1	ASTROCYTIC HMGB1 PROMOTES ENDOTHELIAL PROGENITOR CELL ACCUMULATION AND FUNCTIONAL RECOVERY AFTER ISCHEMIC STROKE K. Hayakawa, L.D. Pham, Z.S. Katusic, K. Arai, E.H. Lo, <i>USA</i>	868
2	ASTROCYTIC HMGB1 PROMOTES ADHESIVE INTERACTION BETWEEN BRAIN ENDOTHELIUM AND ENDOTHELIAL PROGENITOR CELLS K. Hayakawa, L.D. Pham, Z.S. Katusic, K. Arai, E.H. Lo, <i>USA</i>	862
3	LEVODOPA INDUCED ATTENUATION OF ADAPTIVE IMMUNE RESPONSE ENHANCES RECOVERY AFTER STROKE E. Kuric, T. Wieloch, K. Ruscher, <i>Sweden</i>	522
4	NEURONAL REGENERATION WITHIN SUBVENTRICULAR ZONE OF ADULT RAT AFTER CYTOSINE ARABINOSIDE INTRAVENTRICULAR INJECTION T. Ochi, H. Nakatomi, H. Ono, S. Miyawaki, H. Horikawa, A. Ito, H. Imai, N. Saito, <i>Japan</i>	1231
5	MINING THE "NEW PENUMBRA" TO IDENTIFY TARGETS FOR PROTECTION AND REPAIR FOLLOWING STROKE: FOOL'S GOLD OR HIDDEN TREASURE? R. Ratan, <i>USA</i>	189
6	EXPRESSION REGULATION AND PROTEOLYTIC CLEAVAGE OF L1CAM FOLLOWING EXPERIMENTAL TRAUMATIC BRAIN INJURY IN MICE M. Schaefer, L. Dangel, A. Sebastiani, E.-V. Schaible, C. Luh, S. Thal, C. Werner, <i>Germany</i>	1286
7	TREATMENT OF CLINICAL CASES OF ALZHEIMER'S DISEASE WITH ZINC SULPHATE AND VITAMINS K.S. Dhillon, J. Singh, J.S. Lyall, <i>India</i>	109
8	INTRANASAL ADMINISTRATION OF CART PEPTIDE INDUCES NEUROREGENERATION IN STROKE RATS S.-J. Yu, H. Shen, Y. Yang, B. Hoffer, Y. Wang, <i>USA</i>	37

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

CNS Repair and Regeneration (contd.)

Board No

Abstract No

- 9 **STEM CELL FACTOR AND GRANULOCYTE-COLONY STIMULATING FACTOR COMBINATION TREATMENT IN CHRONIC STROKE ENHANCES NEURAL NETWORK REMODELING IN AGED BRAIN**
L.-R. Zhao, L. Cui, S. Murikinati, X. Zhang, W.-M. Duan, Brain Repair after Stroke, *USA, China* 300

CNS Trauma

- 10 **POST-INJURY ADMINISTRATION OF DOCOSAHEXAENOIC ACID REDUCES ER STRESS RESPONSE AND IMPROVES NEUROLOGICAL FUNCTION AFTER TRAUMATIC BRAIN INJURY IN RATS**
G. Begum, H.Q. Yan, A. Singh, C.E. Dixon, D. Sun, *USA* 1128
- 11 **MANNOSE BINDING-LECTIN IS ASSOCIATED WITH INJURED VESSELS IN CLINICAL AND EXPERIMENTAL TRAUMATIC BRAIN INJURY AND ITS DELETION IS PROTECTIVE**
M.G. De Simoni, F. Orsini, L. Longhi, S. Parrella, D. De Blasio, R. Zangari, F. Ortolano, N. Stocchetti, *Italy* 708
- 12 **OMEGA-3 POLYUNSATURATED FATTY ACID SUPPLEMENTATION IMPROVES NEUROLOGICAL RECOVERY AND ATTENUATES WHITE MATTER INJURY FOLLOWING EXPERIMENTAL TRAUMATIC BRAIN INJURY**
H. Pu, W. Zhang, J. Zhang, L. Huang, G. Wang, A. Liou, J. Chen, Y. Gao, *China, USA* 337
- 13 **PHARMACOLOGICALLY INDUCED HYPOTHERMIA ATTENUATES BRAIN INJURY AFTER TRAUMATIC BRAIN INJURY IN NEONATAL RATS**
X. Gu, Z. Wei, A.R. Espinera, L. Wei, S.P. Yu, *USA* 1145
- 14 **HYPERBARIC OXYGEN THERAPY IMPROVES NEUROIMAGING OUTCOMES IN A RAT MODEL OF REPETITIVE MILD TRAUMATIC BRAIN INJURY**
L. Huang, J.S. Coats, A. Mohd-Yusof, J.H. Zhang, R.D. Martin, A. Obenaus, *USA* 833
- 15 **HYPERBARIC OXYGEN TREATMENT IS NEUROPROTECTIVE AGAINST REPETITIVE MILD TRAUMATIC BRAIN INJURY**
L. Huang, M. Hamer, K. Tasi, A. Obenaus, R. Applegate, J.H. Zhang, *USA* 626

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
CNS Trauma (contd.)

Board No		Abstract No
16	AQUAPORIN-4 (AQP4) DYSREGULATION IN A CLOSED-SKULL MURINE MODEL OF MILD AND MODERATE TRAUMATIC BRAIN INJURY J. Iliff, Z. Ren, L. Yang, M. Nedergaard, <i>USA</i>	815
17	CEREBRAL HEMODYNAMICS OF MILD TRAUMATIC BRAIN INJURY AT THE ACUTE STAGE Z. Kou, H. Doshi, W. Wang, V. Mika, R. Welch, E.M. Haacke, <i>USA, China</i>	671
18	THE PROTECTIVE EFFECT OF PHARMACOLOGICALLY INDUCED HYPOTHERMIA AFTER TRAUMATIC BRAIN INJURY IN ADULT MICE J.H. Lee, L. Wei, S.P. Yu, <i>USA</i>	1142
19	MICRORNA EXPRESSION PROFILE DURING SECONDARY LESION EXPANSION AFTER TRAUMATIC BRAIN INJURY L. Meissner, M. Gallozzi, S. Schwarzmaier, M. Balbi, N. Terpolilli, N. Plesnila, <i>Germany, Ireland</i>	585
20	GLYCYRRHIZIN THERAPY FOR TRAUMATIC BRAIN INJURY Y. Okuma, K. Liu, H. Wake, K. Teshigawara, J. Haruma, I. Date, M. Nishibori, <i>Japan</i>	652
21	SMALL MOLECULAR HGF MIMETIC REDUCES TBI INDUCED MOTOR DEFICIT AND TISSUE DAMAGE IN MICE H. Sheng, M. Lu, M. Izutsu, D. Smith, I. Goldberg, D.S. Warner, <i>USA, China</i>	675
22	PATHOBIOLOGY AND TREATMENT OF CLINICAL CASES OF AUTISM IN CHILDREN J. Singh, <i>USA</i>	461
23	NOTCH SIGNALING PATHWAY MEDIATES NEUROPROTECTIVE EFFECT IN MOUSE CORTICAL NEURONS AFTER TBI N. Su, Z. Fei, <i>China</i>	1265
24	ENDOPLASMIC RETICULUM STRESS FOLLOWING TRAUMATIC BRAIN INJURY V.P. Nakka, R. Vemuganti, <i>USA</i>	1298

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
CNS Trauma (contd.)

Board No		Abstract No
25	CORTICAL THICKNESS FINDINGS IN PATIENTS WITH PERSISTENT SYMPTOMS AFTER MILD TRAUMATIC BRAIN INJURY O. Wu, E. McIntosh, B.L. Edlow, J.C. Sherman, A. van der Kouwe, S. Stufflebeam, M. Purohit, D.M. Greer, B. Fischl, R. Zafonte, <i>USA</i>	345
26	CEREBROLYSIN IMPROVES LONG-TERM COGNITIVE FUNCTIONAL OUTCOME IN RATS AFTER MILD CLOSED HEAD INJURY Y. Xiong, M. Chopp, Y. Zhang, Y. Meng, T. Schallert, E. Doppler, A. Mahmood, Z.G. Zhang, <i>USA, Austria</i>	960
27	HYDROGEN SULFIDE REDUCES HISTOPATHOLOGY AND IMPROVES FUNCTIONAL OUTCOME AFTER TRAUMATIC BRAIN INJURY IN MICE M. Zhang, L. Tao, <i>China</i>	388
28	INHALED NITRIC OXIDE (INO) REDUCES BRAIN DAMAGE AFTER EXPERIMENTAL TRAUMATIC BRAIN INJURY N.A. Terpolilli, S.W. Kim, S.C. Thal, W.M. Kuebler, N. Plesnila, <i>Germany, Canada</i>	314
Co-morbidities and Aging		
29	ASSOCIATION OF METABOLIC SYNDROME AND ISCHEMIC STROKE IN THE HISPANIC POPULATION ON THE US-MEXICO BORDER A. Badr, M.F. Osborn, C.C. Miller, J. Zhang, <i>USA</i>	999
30	PREDISPOSED CHRONIC PERIPHERAL INFECTION IN AGED MICE AGGRAVATES ISCHEMIC STROKE INDUCED BRAIN DAMAGE H. Dhungana, T. Malm, A. Denes, P. Valonen, S. Wojciechowski, J. Magga, E. Savchenko, R. Grecis, J. Koistinaho, <i>Finland, UK, Hungary</i>	273
31	THE IMPACT OF AGING ON PERI-INFARCT DEPOLARIZATIONS INDUCED BY FOCAL CEREBRAL ISCHEMIA IN THE RAT BRAIN A. Institoris, D. Clark, Z. Bere, E. Farkas, U.I. Tuor, F. Bari, <i>Hungary, Canada</i>	687

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Co-morbidities and Aging (contd.)

Board No		Abstract No
32	CEREBROLYSIN REDUCES EXACERBATION OF BLOOD-BRAIN BARRIER BREAKDOWN, EDEMA FORMATION AND BRAIN PATHOLOGY IN DIABETIC AND HYPERTENSIVE RATS AFTER HYPERTHERMIA D.F. Muresanu, A. Sharma, R. Patnaik, H. Moessler, H.S. Sharma, Romania, Sweden, India, Austria	66
33	PREFERENTIAL DECREASE IN HIPPOCAMPAL MITOCHONDRIAL RESPIRATION IN COCKAYNE SYNDROME B MICE, A MOUSE MODEL OF PRE-MATURE AGING K. Thomsen, N. Sherazi, T. Yokota, V. Bohr, M. Lauritzen, Denmark, Japan, USA	839
34	DYSFUNCTION OF ANNEXIN A2 CONTRIBUTES TO HYPERGLYCEMIA-INDUCED FIBRINOLYTIC ACTIVITY REDUCTION ON HUMAN ENDOTHELIAL CELLS H. Dai, Z. Yu, X. Fan, N. Liu, M. Yan, Z. Chen, K.A. Hajjar, E.H. Lo, X. Wang, China, USA	1008
35	NEURAL EFFECTS OF GERIATRIC DEPRESSION AND AMNESTIC MILD COGNITIVE IMPAIRMENT ON THE HIPPOCAMPAL FUNCTIONAL CONNECTIVITY NETWORK IN THE NON-DEMENTED ELDERLY C. Xie, J. Goveas, W. Li, G. Chen, T. Zhai, G. Chen, M. Franczak, P.G. Antuono, J.L. Jones, S.-J. Li, Z. Zhang, China, USA	1124

Endogenous Neuroprotection

36	SKF83959 IS A POTENT ALLOSTERIC MODULATOR OF SIGMA-1 RECEPTOR L. Guo, J. Zhao, B. Zhao, G. Jin, G. Wang, A. Zhang, X. Zhen, China	452
37	ACTIVATION OF ENDOGENOUS STEM CELLS AFTER FOCAL VENOUS CEREBRAL ISCHEMIA AND CORTICAL SPREADING DEPRESSION A. Heimann, K. Horiuchi, S. Nieraad, B. Alessandri, O. Kempfski, Germany, Japan	389
38	MIRNA-424 PROMOTES NEUROPROTECTION AGAINST FOCAL CEREBRAL ISCHEMIA INJURY IN MICE THROUGH SUPPRESSING MICROGLIAL ACTIVATION H. Zhao, L. Gao, X. Liu, Z. Gao, Z. Tao, X. Ji, Y. Luo, China	84

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Endogenous Neuroprotection (contd.)

Board No		Abstract No
39	GENOME-WIDE SURVEY REVEALS ISCHEMIC POST-CONDITIONING PARTIALLY REVERSES CELL CYCLE REACTIVITY FOLLOWING ISCHEMIA/REPERFUSION INJURY R. Wang, H. Zhao, X. Liu, F. Yan, X. Ji, Y. Luo , <i>China</i>	86
40	DELTA-OPIOID RECEPTOR MEDIATED UP-REGULATION OF EXCITATORY AMINO ACID TRANSPORTERS IN MOUSE ASTROCYTES J. Liang, H.K. Sandhu, D. Chao, D.H. Kim, Y. Xia , <i>USA</i>	120
41	ANGIOTENSIN-(1-7) MODULATES RENNIN-ANGIOTENSIN SYSTEM ASSOCIATED WITH REDUCING OXIDATIVE STRESS AND ATTENUATING NEURONAL APOPTOSIS IN THE BRAIN OF HYPERTENSIVE RATS Y. Zhang , T. Jiang, <i>China</i>	1156

Genetic and Epigenetic Factors

42	CLASSIFYING INTRACRANIAL MAJOR ARTERY STENOSIS/OCCLUSION BASED ON THE GENOTYPE OF <i>RNF213</i>, THE SUSCEPTIBILITY GENE FOR MOYAMOYA DISEASE S. Miyawaki , H. Imai, H. Ono, S. Takayanagi, H. Horikawa, T. Ochi, A. Ito, A. Mukasa, H. Nakatomi, N. Saito, <i>Japan</i>	270
43	DEVELOPMENT OF GENETIC STUDY BY USING GROUPING SYSTEM FOR STROKE CARE (MEDICAL TREATMENT/NURSING SERVICE/WELFARE) IN THE REMOTE PLACE K. Takenaka , K. Hayashi, M. Kato, T. Yamada, <i>Japan</i>	142
44	NOVEL CELLULAR ROLES OF CCM SIGNALING COMPLEX DURING NEUROVASCULAR ANGIOGENESIS J. Zhang , S. Shen, Y. Qu, A. Badr, <i>USA</i>	1125

Glial Mechanisms

45	ASTROCYTE REACTIVITY IS ASSOCIATED WITH DECREASED OF N-ACETYL-ASPARTATE LEVELS IN ABSENCE OF NEURODEGENERATION IN THE RAT BRAIN M.-A. Carrillo-de Sauvage , L. Ben Haim, M. Guillermier, J. Valette, C. Escartin, <i>France</i>	298
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Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Glial Mechanisms (contd.)

Board No		Abstract No
46	BAICALEIN INDUCES ASTROCYTE-SPECIFIC PRODUCTION OF INTERLEUKIN 6 VIA ACTIVATION OF PI3K/AKT SIGNALING PATHWAY FOR NEUROPROTECTION S.-H. Lin, H.-Y. Chuang, Y.-Y. Sun, Y.-H. Lee, <i>Taiwan R.O.C., USA</i>	333
47	ASTROCYTES - A TARGET FOR THE ACTION OF THROMBIN AND ACTIVATED PROTEIN C L. Gorbacheva, S. Strukova, A. Ivanova, V. Pinelis, G. Reiser, <i>Russia, Germany</i>	835
48	A MAJORITY OF ASTROCYTES SHOW RAPID STIMULUS-EVOKED CA²⁺ ACTIVITY, FAST ENOUGH TO CONTRIBUTE TO THE HEMODYNAMIC RESPONSE IN VIVO B.L. Lind, A. Brazhe, S.B. Jessen, F.C.C. Tan, M. Lauritzen, <i>Denmark, Russia</i>	742
49	A VICIOUS CIRCLE OF AGING, HYPOXIA, AND ASTROGLIA CALCIUM WAVES C. Mathiesen, A. Brazhe, K. Thomsen, M.L. Lauritzen, <i>Denmark, Russia</i>	282
50	STIMULATION OF NA⁺/H⁺ EXCHANGER ISOFORM 1 PROMOTES MICROGLIAL MIGRATION Y. Shi, H. Yuan, D. Kim, V. Chanana, A. Baba, T. Matsuda, P. Cengiz, P. Ferrazzano, D. Sun, <i>USA, Japan</i>	1032
51	ACTIVITY-DEPENDENT CA²⁺ SIGNALS IN HIPPOCAMPAL ASTROCYTES OF ADULT MICE REVEALED BY GCAMP5 W. Tang, K. Szokol, V. Jensen, Ø. Hvalby, P.J. Helm, L. Looger, R. Sprengel, E. Nagelhus, <i>Norway, Germany, USA</i>	761
52	OPPOSITE EFFECT OF OXYSTEROLS ON MYELINATION PROCESS IN THE CENTRAL AND PERIPHERAL NERVOUS SYSTEMS AND INTERPLAY WITH WNT PATHWAY C. Massaad, D. Meffre, J. Grenier, J. Makoukji, G. Shackleford, <i>France</i>	853

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: CT/SPECT/PET

Board No		Abstract No
53	CORTICAL GABA_A RECEPTOR BINDING POTENTIAL PATTERNS DISPLAY SMALL-WORLD CHARACTERISTICS N.W. Duncan, C. Wiebking, P. Gravel, A.J. Reader, G. Northoff, <i>Canada</i>	358
54	USEFULNESS OF BRAIN PERFUSION SPECT IMAGING IN CHILDREN CORTICAL VISUAL IMPAIRMENTS EXPLORATION K. Farid, C. Cavezian, F. Caetta, N. Caillat Vigneron, S. Chokron, <i>France</i>	1262
55	HIGH-RESOLUTION IN VIVO SPECT-IMAGING OF ACTIVITY-DEPENDENT CHANGES IN REGIONAL CEREBRAL BLOOD FLOW IN MOUSE BRAIN J. Goldschmidt, A. Kolodziej, J. Neubert, F. Angenstein, A. Pethe, O.S. Grosser, H. Amthauer, U.H. Schroeder, K.G. Reymann, H. Scheich, F.W. Ohl, <i>Germany</i>	589
56	DUAL ENERGY VIRTUAL NON-CONTRAST TECHNIQUE OF DUAL SOURCE HEAD CTA IN DIAGNOSIS OF MENINGIOMAS D. Han, X. Xie, Y. Deng, X. Zeng, S. Kang, <i>China</i>	912
57	PHYSIOLOGICAL CORRELATES OF CEREBRAL BLOOD FLOW AT THE ONSET OF THE STEADY-STATE EXERCISE: A PET STUDY M. Hiura, T. Nariai, K. Ishii, M. Sakata, K. Oda, J. Toyohara, K. Ishiwata, <i>Japan</i>	771
58	QUANTITATIVE ASSESSMENT OF REST- AND ACETAZOLAMIDE CBF USING QSPECT AND DUAL-TABLE ARG METHOD - INTER-INSTITUTIONAL CONSISTENCY OF NORMAL VALUES M. Yamauchi, E. Imabayashi, H. Matsuda, J. Nakagawara, M. Takahashi, E. Shimosegawa, J. Hatazawa, H. Iwanaga, M. Suzuki, K. Fukuda, H. Iida, <i>Japan</i>	1222
59	MEASUREMENTS OF CBV AND CBF IN GRAY AND WHITE MATTER FROM BRAIN PERFUSION CT IMAGES IN UNILATERAL ARTERIAL STENOSIS PATIENTS Y.-H. Kao, M.M.H. Teng, H. Wang, Y.-T. Kao, <i>Taiwan R.O.C.</i>	105
60	USEFULNESS OF BRAIN PERFUSION SPECT FOR DIFFERENTIATION BETWEEN IDIOPATHIC PARKINSON'S DISEASE AND MULTIPLE SYSTEM ATROPHY H.-J. Kim, I.-U. Song, Y.-A. Chung, <i>Republic of Korea</i>	719

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: CT/SPECT/PET (contd.)

Board No		Abstract No
61	ACCURACY OF CENTRAL BENZODIAZEPINE RECEPTOR BINDING POTENTIAL/ CEREBRAL BLOOD FLOW SPECT IMAGING FOR DETECTING MISERY PERFUSION H. Kuroda, <i>Japan</i>	985
62	STATISTICAL IMAGING ANALYSIS USING 3D-SSP OF ¹²³I-IMZ SPECT FOR DIAGNOSIS OF HIGHER BRAIN DYSFUNCTION IN PATIENTS WITH ADULT MOYAMOYA DISEASE J. Nakagawara, K. Iihara, H. Kataoka, K. Morita, K. Itoh, N. Kobayashi, D. Ishii, D. Maruyama, N. Hashimoto, H. Iida, <i>Japan</i>	502
63	VOXEL ANALYSIS OF CT PERFUSION MAPS IN ACUTE ISCHEMIC STROKE E.M. Nemoto, M. Malkoff, J. Kawano, T. Lee, H. Yonas, <i>USA, Canada</i>	792
64	STABLE XENON CEREBRAL BLOOD FLOW QUANTITATIVELY REFLECTS CT DENSITY IN ACUTE ISCHEMIC STROKE E.M. Nemoto, T. Zhang, H. Yonas, <i>USA</i>	785
65	HOW DO GABA AND GLUTAMATE MODULATE THE BRAIN'S INTRINSIC ACTIVITY AND SUBSEQUENT STIMULUS-INDUCED ACTIVITY ON A REGIONAL LEVEL? G. Northoff, C. Wiebking, P. Qin, N. Duncan, <i>Canada</i>	325
66	EFFECTIVE BRAIN CONNECTIVITY IN GRN-RELATED MONOGENIC FRONTOTEMPORAL DEMENTIA: A PATH MODELING ANALYSIS B. Paghara, A. Alkhrasheh, E. Premi, M. Grassi, B. Borroni, A. Padovani, R. Giubbini, <i>Italy</i>	18
67	THE USE OF ²⁰¹THALLIUM-DIETHYLDITHIOCARBAMATE-SPECT FOR IN-VIVO IMAGING OF EARLY STROKE INDUCED ALTERATIONS IN CEREBRAL POTASSIUM METABOLISM F. Stöber, U. Dirnagl, K.G. Reymann, U.H. Schröder, H. Scheich, A. Wunder, J. Goldschmidt, <i>Germany</i>	747
68	NON INVASIVE ASSESSMENT OF HYPOXIA WITH [¹⁸F]-FMISO PET IN TWO EXPERIMENTAL HUMAN GLIOMA MODELS S. Valable, A. Corroyer-Dulmont, E.A. Pérès, E. Petit, L. Durand, L. Marteau, J. Toutain, S. Roussel, L. Barré, M. Bernaudin, <i>France</i>	367

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: CT/SPECT/PET (contd.)

Board No

Abstract No

- 69 **UNDERSTANDING MECHANISMS OF ENERGY FAILURE USING
 ¹⁵OXYGEN AND [¹⁸F]FLUOROMISONIDAZOLE POSITRON
 EMISSION TOMOGRAPHY FOLLOWING HEAD INJURY**
 T.V. Veenith, T. Geeraerts, J. Grossac, E. Carter, V. Newcombe,
 J. Outtrim, G. Gee, R. Smith, F.I. Aigbirhio, T. Fryer, D. Menon, Y. Hong,
 J. Coles, *UK* 1017
- 70 **HYPOPERFUSION OF CONSECUTIVE BRAIN SPECT IMAGES WITH
 MCI BY 3 ALTERNATED MR-BASED PARTIAL VOLUME
 CORRECTION ALGORITHMS**
 H.J. Yoon, Y.J. Jeong, D.-Y. Kang, *Republic of Korea* 482
- 71 **DETERMINING THE LOCALIZATION OF CONSECUTIVE BRAIN
 SPECT IMAGES USING SISCOM, ISAS AND ISAS HN METHOD**
 H.J. Yoon, Y.J. Jeong, D.-Y. Kang, *Republic of Korea* 365

Imaging: MRI

- 72 **DETECTION OF HEMODYNAMIC RESPONSE WITH FUNCTION MRI
 USING REPEATED MEDIAN NERVE STIMULATION**
 L. Ai, X. Gao, J. Xiong, *USA, China* 958
- 73 **DYNAMIC SUSCEPTIBILITY CONTRAST MRI ABSOLUTE
 QUANTITATIVE CBF ISCHEMIC VOLUMES CLOSELY MIRRORS
 NIHSS SEVERITY IN ACUTE ISCHEMIC STROKE**
 J.R. Alger, G. Ahadi, D.J.J. Wang, D.S. Liebeskind, *USA* 677
- 74 **ASSOCIATION OF TAU PROTEIN PATHWAYS AND DISRUPTED
 CORTICO-CEREBELLAR LOOPS IN AMNESTIC MILD COGNITIVE
 IMPAIRMENT**
 F. Bai, W. Liao, C. Yue, M. Pu, Y. Shi, H. Yu, Y. Yuan, L. Geng,
 Z. Zhang, *China* 1102
- 75 **THE HUMAN PARAHIPPOCAMPAL REGION: II. PERIRHINAL
 CORTEX CYTOARCHITECTONIC AND MRI CORRELATION**
 X. Blaizot, F. Mansilla, A.M. Insausti, A. Salinas-Alaman, R. Insausti,
 Spain 737
- 76 **PROBABILISTIC MRI BRAIN ANATOMICAL ATLASES BASED ON
 1,000 CHINESE SUBJECTS**
 N. Chen, K. Li, X. Wang, *China* 1028

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: MRI (contd.)

Board No		Abstract No
77	NEW IN VIVO APPROACH FOR IMAGING INTRACELLULAR NAD CONTENTS AND NAD⁺/NADH REDOX STATE IN LIVING BRAINS W. Chen, M. Lu, X.-H. Zhu, <i>USA</i>	417
78	HYPOINTENSIVE DEEP MEDULLARY VEINS CORRELATES WITH HYPOPERFUSION IN ISCHEMIC STROKE PATIENTS: A 3T SUSCEPTIBILITY-WEIGHTED IMAGING (SWI) STUDY M. Lou, Z. Chen, H. Hu, Y. Lin, J. Wan, S. Yan, Z. Shi, <i>China</i>	1193
79	MOLECULAR IMAGING OF SELECTIN EXPRESSION AFTER STROKE T. Farr, D. Grünstein, C.-H. Lai, A. Barandov, C.-C. Wang, G. Laettig, P.H. Seeberger, C. Harms, <i>Germany</i>	930
80	NEUROIMAGING AND BEHAVIOURUAL CHARACTERIZATION OF A MOUSE MODEL OF VASCULAR COGNITIVE IMPAIRMENT T.D. Farr, M.P. Brinckmann, M. Foddis, A. Kunz, C. Po, U. Dirnagl, M. Fächtemeier, <i>Germany, France</i>	134
81	DWI STUDY REVEALS VERY-DELAYED CYTOTOXIC EDEMA IN THE PULVINAR AND MEDIAL NUCLEI OF THALAMI IN HUMAN BRAINS AFTER HYPOGLYCEMIC COMA M. Fujioka, S. Suzuki, K. Okuchi, Y. Tada, T. Watanabe, T. Seki, T. Taoka, Y. Kitazawa, <i>Japan</i>	203
82	EVALUATING NEURODEGENERATIVE DISEASE WITH ASL PERFUSION: COMPARISON WITH FDG-PET S.H. Fung, C. Karmonik, M.F. Dulay, B. Pascual, D.Y. Lee, S.B. Chiang, R.E. Fisher, R.G. Grossman, B.M. Spann, G.C. Roman, <i>USA</i>	650
83	THE HUMAN HIPPOCAMPUS AND AMYGDALA: PROBABILISTIC ATLASES IN A STEREOTAXIC SPACE, AND QUANTITATIVE COMPARISON OF SPATIAL NORMALIZATION STRATEGIES C. Vial, M. Belgacem, R.A. Heckemann, J.A. Yankam Njiwa, R. Allom, C.-H. Chen, N. Costes, A. Hammers, <i>France, UK</i>	1287
84	EARLY CHANGE IN FERUMOXYTOL-ENHANCED MAGNETIC RESONANCE IMAGING SIGNAL SUGGESTS UNSTABLE HUMAN CEREBRAL ANEURYSM. A PILOT STUDY D. Hasan, <i>USA</i>	919

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: MRI (contd.)

Board No		Abstract No
85	EFFECTS OF ARTERY INPUT FUNCTION ON (K^{TRANS}) AND (V_E) OF DYNAMIC CONTRAST ENHANCED MRI FOR DETERMINING GRADES OF GLIOMAS B. Hou, N. Zhang, J.S. Carpenter, <i>USA, China</i>	939
86	FMRI OF GLUCOSE INGESTION C. Huerta, J. Li, T. Duong, <i>USA</i>	976
87	DIFFERENTIAL FMRI RESPONSES TO VISUAL FOOD CUES BETWEEN LEAN AND OBESE SUBJECTS C. Huerta, P. Sarkar, T. Duong, <i>USA</i>	975
88	FEASIBILITY OF USING PULSED CONTINUOUS ARTERIAL SPIN LABELING TECHNIQUE FOR QUANTITATIVE EVALUATION OF CEREBRAL BLOOD FLOW M. Isozaki, H. Okazawa, A. Tada, S. Yamada, H. Arai, H. Takeuchi, H. Kimura, K. Kikuta, <i>Japan</i>	537
89	DETECTION OF EARLY WHITE MATTER REORGANIZATION USING MRI Q-SPACE DTI Q. Jiang, G. Ding, S. Pourabdollah Nejad D., C. Qu, A. Mahmood, L. Li, Q. Li, M. Chopp, <i>USA</i>	330
90	QUANTITATIVE ASSESSMENT OF CEREBRAL BLOOD VOLUME AND FLOW FROM BRAIN PERFUSION MR IMAGES WITH THE REMOVAL OF VESSEL VOXELS Y.-H. Kao, M.M.H. Teng, I.-C. Cho, F.-Y. Chiu, F.-C. Chang, <i>Taiwan R.O.C.</i>	241
91	IDENTIFICATION OF BRAIN SUB-NETWORKS DURING THE INITIATION OF WILLED MOVEMENT C. Karmonik, A. Verma, M. Dulay, S. Fung, R.G. Grossman, <i>USA</i>	1039
92	STANDARDIZATION OF PRECLINICAL STROKE IMAGING A. Kranz, J. Boltze, D.-C. Wagner, <i>Germany</i>	777
93	VENTROMEDIAL PREFRONTAL CORTEX IN CONTROL OF PHYSIOLOGICAL AROUSAL: THE EFFECTS OF IMPULSIVITY S. Zhang, C.-S.R. Li, <i>USA</i>	128

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: MRI (contd.)

Board No		Abstract No
94	ALTERED NEUROVASCULAR COUPLING OF CEREBRAL BLOOD FLOW AND NEURONAL RESPONSES TO SENSORY STIMULATION BY THE SEROTONIN RECEPTOR AGONIST PSILOCIN A. Spain, C. Howarth, M. Maczka, T. Sharp, N.R. Sibson, C. Martin, <i>UK</i>	721
95	HEMODYNAMIC EVALUATION OF MIDDLE CEREBRAL ARTERY IN PATIENTS WITH ISCHEMIC STROKE DETECTED BY 3.0TESLA MRI A. Mizuma, N. Kajihara, H. Takano, K. Endo, M. Kawakata, H. Nishio, T. Horie, T. Yanagimachi, S. Takizawa, <i>Japan</i>	1169
96	EVALUATION OF PHASE UNWRAPPING METHODS IN MRI FOR ASSESSMENT OF OEF IN TRANSIENT ISCHEMIC BRAIN TISSUE IN RATS K. Nakamura, J. Kawamura, Y. Kondoh, H. Miyata, T. Kinoshita, <i>Japan</i>	683
97	DEPRESSIVE MOOD MODULATES ANTERIOR LATERAL CA1 DURING A PATTERN SEPARATION TASK IN HEALTHY INDIVIDUALS: A FUNCTIONAL MRI STUDY T. Fujii, D.N. Saito, H.T. Yanaka, H. Kosaka, H. Okazawa, <i>Japan</i>	492
98	EFFECTS OF TRANSIENT FUNCTIONAL BRAIN DISRUPTION ON GLOBAL NEURAL NETWORK STATUS IN RATS W.M. Otte, K. van der Marel, R.M. Dijkhuizen, <i>The Netherlands</i>	95
99	QUANTIFICATION OF CEREBRAL HAEMODYNAMICS BEYOND CBF USING NON-PARAMETRIC CPI METHOD FOR DYNAMIC SUSCEPTIBILITY CONTRAST MRI S.J. Payne, A. Mehndiratta, D.E. Crane, B.J. MacIntosh, M.A. Chappell, <i>UK, Canada</i>	526
100	EXPERT SYSTEM DEVELOPMENT FOR THE FANN BASED DIAGNOSIS OF BRAIN TUMOR N. Pradhan, A.K. Sinha, <i>India</i>	841
101	SPONTANEOUS ACTIVITY AND THE SELF - AN INTERACTION STUDY BETWEEN DIFFERENT OPERATIONAL RESTING STATES AND SELF-SPECIFIC STIMULI P. Qin, S. Grimm, M. Bajbouj, G. Northoff, <i>Canada, Germany</i>	324

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: MRI (contd.)

Board No		Abstract No
102	FMRI BOLD SIGNAL OF MICE IN RESPONSE TO PROLONGED SENSORY STIMULATION SHOWS NONLINEARITIES WHICH DEPEND ON THE ANESTHETIC REGIME F. Schlegel, A. Schröter, M. Rudin, <i>Switzerland</i>	329
103	DEFINING THE HUMAN HYPOTHALAMUS <i>IN VIVO</i> BY ULTRA-HIGH FIELD 7 TESLA MRI S. Schindler, L. Schmidt, M. Strauß, A. Anwander, P.-L. Bazin, H. Möller, R. Trampel, U. Hegerl, R. Turner, S. Geyer, P. Schönknecht, <i>Germany</i>	212
104	DIFFERENCES IN BRAIN FUNCTION BETWEEN PHONEMIC FLUENCY AND SEMANTIC CATEGORY VERBAL TESTS A. Shiino, T. Watanabe, Y. Shirakashi, K. Tanigaki, T. Inubushi, <i>Japan</i>	172
105	INVESTIGATING AUDITORY PROCESSING IN CONSCIOUS AWAKE COMMON MARMOSETS USING FMRI C.R. Toarmino, C.C.-C. Yen, D.A. Leopold, C.T. Miller, A.C. Silva, <i>USA</i>	908
106	BRAIN PERFUSION MEASUREMENT IN PATIENTS WITH STENO-OCCLUSIVE DISEASE USING ARTERIAL SPIN LABELLING: CURRENT STATUS AND PERSPECTIVES J. Sobesky, M. Mutke, S. Martin, V. Madai, F. Samson-Himmelstejrna, O. Zaro Weber, M. Guenther, <i>Germany</i>	1306
107	PHARMACOLOGICAL MRI (PHMRI) OF THE SEROTONIN (5-HT) RECEPTOR AGONIST PSILOCIN IN THE RAT: POTENTIAL FAST-ONSET THERAPY FOR AFFECTIVE DISORDERS A. Spain, C. Howarth, A. Khrapitchev, T. Sharp, N.R. Sibson, C. Martin, <i>UK</i>	712
108	FUNCTIONAL MAGNETIC RESONANCE IMAGING FOR DETECTION OF CORTICAL REORGANIZATION IN PEDIATRIC-ONSET MULTIPLE SCLEROSIS R.O. Suarez, M.P. Gorman, M. Matson, S.P. Prabhu, S.K. Warfield, <i>USA</i>	617
109	REGIONAL GRAY AND WHITE MATTER VOLUME INCREASES IN ADULT RAT BRAIN FOLLOWING 7 DAYS VOLUNTARY WHEEL RUNNING A. Sumiyoshi, Y. Taki, H. Nonaka, H. Takeuchi, R. Kawashima, <i>Japan</i>	197

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: MRI (contd.)

Board No		Abstract No
110	NORMAL TIME-TO-PEAK BRAIN MAP - ANOTHER PARAMETRIC IMAGE FOR EVALUATION OF BRAIN PERFUSION M.M.H. Teng, Y.-H. Kao, I.-C. Cho, F.-C. Chang, C.-J. Lin, C.-B. Luo, W.-Y. Guo, <i>Taiwan R.O.C.</i>	941
111	LONGITUDINAL DIFFUSION KURTOSIS IMAGING OF NORMAL WHITE MATTER DEVELOPMENT IN RATS K. van der Marel, W.M. Otte, U.S. Rudrapatna, A. van der Toorn, R.M. Dijkhuizen, <i>The Netherlands</i>	493
112	MOLECULAR MRI OF ICAM-1 EXPRESSION AT DIFFERENT STAGES AFTER EXPERIMENTAL STROKE IN MICE G.A. Van Tilborg, L.H. Deddens, K. van der Marel, H. Hunt, A. van der Toorn, H.E. de Vries, R.M. Dijkhuizen, <i>The Netherlands</i>	762
113	INTER SUBJECT VARIABILITY, WITHIN AND BETWEEN SESSION REPRODUCIBILITY OF DIFFUSION TENSOR IMAGING AND IMPORTANCE IN INTERVENTIONAL AND LONGITUDINAL STUDIES T. Veenith, E. Carter, J. Grossac, V. Newcombe, J. Outtrim, V. Lupson, G. Williams, D. Menon, J. Coles, <i>UK</i>	377
114	RELIABILITY OF 2D AND 3D PSEUDO-CONTINUOUS ARTERIAL SPIN LABELING PERFUSION MRI IN ELDERLY POPULATIONS - COMPARISON WITH 15O-WATER PET D.J. Wang, E. Kilroy, L. Apostolova, C.Y. Liu, L. Yan, J. Ringman, <i>USA</i>	423
115	PHARMACOLOGICAL MRI AND TENSOR-BASED MORPHOMETRY IN THE 6-OHDA RAT MODEL OF PARKINSON'S DISEASE R. Westphal, C. Simmons, M. Mesquita, T.C. Wood, W.R. Crum, D. Duricki, A. Vernon, S.C. Williams, D. Cash, <i>UK</i>	382
116	INCREASED COX ACTIVITY IN MELAS IS LINKED TO SEVERE SKELETAL ENERGY FAILURE BY 31P-MRS F. Niu, L. Zhuo, F. Chen, Y. Xu, <i>China</i>	554
117	METABOLIC CHANGES IN SYMPTOMATIC ATHEROSCLEROTIC LARGE-ARTERY OCCLUSIVE DISEASE EVALUATED BY PROTON MAGNETIC RESONANCE SPECTROSCOPY T. Yagi, K. Hashimoto, S. Yagi, M. Shimizu, T. Shimizu, T. Horikoshi, H. Kinouchi, <i>Japan</i>	1068

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: MRI (contd.)

Board No		Abstract No
118	NETWORK ASYMMETRY OF VISUAL AREAS REVEALED BY RESTING-STATE FUNCTIONAL MRI L.-R. Yan, Y.-B. Wu, <i>China</i>	1064
119	CONTRAST-ENHANCED MRI OF INTRA- AND PERILESIONAL VASCULAR CHANGES AFTER FOCAL CEREBRAL ISCHEMIA IN RATS P. Yanev, P. Seevinck, M. Bouts, U. Rudrapatna, A. van der Toorn, R.M. Dijkhuizen, <i>The Netherlands</i>	1295
120	INTRAOPERATIVE HEMODYNAMIC MONITORING IN THE ARTERIOVENOUS MALFORMATION SURGERY: THE ROLE OF INTRAOPERATIVE MRI F. Zhu, Y. Mao, D. Song, W. Zhu, Y. Gu, B. Xu, J. Wu, L. Zhou, <i>China</i>	676
121	INTRAOPERATIVE HEMODYNAMIC CHANGE AND BRAIN REPERFUSION AFTER CAROTID ENDARTERECTOMY EVALUATED BY INTRAOPERATIVE MRI F. Zhu, Y. Mao, D. Song, Y. Gu, B. Xu, W. Zhu, J. Wu, L. Zhou, <i>China</i>	672

Imaging: Optical

122	TARGETING EVALUATION OF FA-NIR797 MAGNETIC ALBUMIN NANOSPHERES IN VITRO AND IN VIVO Y.-L. An, Q.-S. Tang, D.-F. Liu, G.-J. Teng, <i>China</i>	1226
123	FROM ASTRONOMY TO ASTROCYTES: MULTISCALE VISION MODEL FOR DETECTION OF GLIAL CALCIUM WAVES IN TWO-PHOTON IMAGING DATA A. Brazhe, C. Mathiesen, M. Lauritzen, <i>Russia, Denmark</i>	292
124	REPERFUSION IN MANNOSE-BINDING LECTIN KNOCK-OUT MICE FOLLOWING MIDDLE CEREBRAL ARTERY OCCLUSION A. Kristoffersen, X. de la Rosa Siles, C. Valdés, C. Justicia, A.M. Planas, T. Durduran, <i>Spain</i>	1313
125	CHANGES IN EFFECTIVE DIFFUSIVITY FOR OXYGEN DURING NEURAL ACTIVATION AND DEACTIVATION ESTIMATED FROM CAPILLARY DIAMETER MEASURED BY TWO-PHOTON LASER MICROSCOPE H. Ito, H. Takuwa, Y. Tajima, H. Kawaguchi, K. Masamoto, J. Taniguchi, Y. Ikoma, C. Seki, M. Ibaraki, I. Kanno, <i>Japan</i>	267

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: Optical (contd.)

Board No		Abstract No
126	CHRONIC IMAGING OF CORTICAL BLOOD FLOW USING MULTI-EXPOSURE SPECKLE IMAGING S.M.S. Kazmi, A.K. Dunn, <i>USA</i>	889
127	REAL TIME CEREBRAL BLOOD FLOW MONITORING IN RAT MIDDLE CEREBRAL ARTERY OCCLUSION SURGERY BY LASER SPECKLE IMAGING L. Yuan, H. Lu, Y. Li, S. Tong, <i>China</i>	1271
128	UNDERSTANDING CEREBRAL NEUROVASCULAR COUPLING FUNCTIONS OF THE PHOTOTHROMBOTIC STROKE VIA NOVEL ELECTROCORTICOGRAPHY-FUNCTIONAL PHOTOACOUSITIC MICROSCOPY (ECOG-FPAM) L.-D. Liao, H.-Y. Lai, V. Tsytsarev, N.V. Thakor, Y.-R. Lin, Y.-Y.I. Shih, M.-L. Li, Y.-Y. Chen, <i>Singapore, USA, Taiwan R.O.C.</i>	770
129	IN VIVO OPTICAL IMAGING FOR EVALUATING THE EFFICACY OF EDARAVONE AFTER TRANSIENT CEREBRAL ISCHEMIA IN MICE N. Liu, J. Shang, T. Yamashita, Y. Omote, K. Deguchi, Y. Ikeda, K. Abe, <i>Japan</i>	51
130	VALIDATION OF OPTICALLY MEASURED CEREBRAL VENOUS OXYGEN SATURATION IN HUMANS J.M. Lynch, E. Buckley, P. Schwab, M.E. Putt, B.D. Hanna, D.J. Licht, A.G. Yodh, <i>USA</i>	445
131	IN VIVO TWO-PHOTON IMAGING OF CORTICAL MICROVASCULAR DYSFUNCTION IN ANIMAL MODELS OF ESSENTIAL THROMBOCYTHEMIA AND POLYCYTHEMIA VERA T.P. Santisakultarm, C.Q. Paduano, T. Stokol, N. Nishimura, T.L. Southard, R.C. Skoda, W.L. Olbricht, A.I. Schafer, R.T. Silver, C.B. Schaffer, <i>USA, Switzerland</i>	583
132	AN APPLICATION OF THE FIBERED FLUORESCENCE MICROSCOPY TO CONTINUOUSLY MONITOR THE RAT CEREBRAL NEURONS <i>IN VIVO</i> Y. Shi, L. Chen, M. Jiang, <i>China</i>	1105
133	NEUROVASCULAR COUPLING STUDIED IN AWAKE RATS BY DOI/EEG MEASUREMENTS J. Sutin, W. Wu, C. Chang, L. Ruvinskaya, M.A. Franceschini, <i>USA</i>	1290

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Imaging: Optical (contd.)

Board No		Abstract No
134	IN VIVO IMAGING OF CEREBRAL ENERGY METABOLISM WITH 2-PHOTON FLUORESCENCE LIFETIME MICROSCOPY OF NADH AND PO₂ M.A. Yaseen, S. Sakadžić, B. Fu, W. Wu, D.A. Boas, <i>USA</i>	1315
135	NON-INVASIVE EVALUATION OF NEURONAL VIABILITY IN ORGANOTYPIC BRAIN CULTURES USING OPTICAL COHERENCE MICROSCOPY F. Li, Y. Berdichevsky, M.D. Feldman, C. Zhou, <i>USA</i>	661

Imaging: Other

136	SEGMENTATION OF MOUSE BRAIN MICROVASCULATURE FROM MICRO-CT IMAGES USING GABOR FILTER AND LOCAL ENTROPY THRESHOLDING Y. Ding, W. Ward, T. Parker, S. Nakagawa, L. Buttery, L. White, L. Bai, <i>UK</i>	1111
137	VIRTUAL NAVIGATOR - NEW MODALITY FOR INTRAOPERATIVE FUSION IMAGING OF BRAIN TUMORS M. Filip, P. Linzer, F. Šámal, P. Jurek, D. Skoloudik, <i>Czech Republic</i>	77
138	USEFULNESS OF HIGH SPATIAL RELATION THREE-DIMENSIONAL FUSION IMAGE IN THE ANTERIOR APPROACH FOR THE RESECTION OF SPINAL HEMANGIOBLASTOMA D. Nakagawa, T. Kin, K. Ishii, H. Imai, M. Yoshino, H. Oyama, N. Saito, <i>Japan</i>	1003
139	NOVEL INDANONE DERIVATIVES AS PROBES FOR SENILE PLAQUES IN ALZHEIMER'S DISEASE D. Nan, C. Gan, C. Wang, J. Qiao, J.-N. Zhou, <i>China</i>	666
140	NOVEL DERIVATIVES CONTAINING (E)-1-PHENYL-3-(4-((E)-STYRYL)PHENYL)PROP-2-EN-1-ONE CORE AS POTENTIAL IMAGING AGENT FOR SENILE PLAQUES C. Wang, D. Nan, X. Wang, J. Qiao, J.-N. Zhou, <i>China</i>	665
141	EVOLUTION MODELING OF BRAIN MEMORY FUNCTIONAL SMALL WORLD NETWORK L. Zhang, Y. Tang, B. Sun, <i>China</i>	1037
142	A PC-BASED AUTORADIOGRAPHIC IMAGING SYSTEM FOR ANIMAL STROKE OR TRAUMA STUDY W. Zhao, <i>USA</i>	1020

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Ischemic Stroke

Board No		Abstract No
143	PROSTAGLANDIN D2 DP1 RECEPTOR ACTIVATION RESCUES THE ISCHEMIC BRAIN THROUGH IMPROVED CEREBRAL BLOOD FLOW A. Ahmad, T. Maruyama, S. Narumiya, S. Dore, <i>USA, Japan</i>	817
144	DIMINISHED ET_B RECEPTOR-MEDIATED VASOCONSTRICTION BY MEK1/2 INHIBITION IS ASSOCIATED WITH IMPROVED NEUROLOGICAL FUNCTION AFTER CEREBRAL ISCHEMIA IN FEMALE RATS H. Ahnstedt, F. W Blixt, R. Thiagarajah, K. Warfvinge, D.N. Krause, L. Edvinsson, <i>Sweden, USA</i>	750
145	POST-ISCHEMIA ETHANOL (PIE) THERAPY IS HIGHLY NEUROPROTECTIVE IN ACUTE STROKE BY REDUCING OXIDATIVE INJURY THROUGH IMPROVED METABOLIC FUNCTION K. Asmaro, C. Peng, R. Kochanski, T. Higashida, I. Lee, M. Hüttemann, M. Guthikonda, Y. Ding, <i>USA</i>	655
146	IDENTIFICATION OF ISCHEMIC PENUMBRA USING FDG POSITRON EMISSION TOMOGRAPHY H. Backes, M. Walberer, H. Endepols, B. Neumaier, K. Wienhard, R. Graf, G. Mies, <i>Germany</i>	812
147	QUANTIFYING LEPTOMENINGEAL COLLATERAL BLOOD FLOW DURING MIDDLE CEREBRAL ARTERY OCCLUSION IN THE RAT D.J. Beard, D.D. McLeod, C.L. Logan, M. Imtiaz, N.J. Spratt, <i>Australia</i>	176
148	IMPROVING QUALITY AND PREDICTIVENESS OF TRANSLATIONAL BRAIN RESEARCH: STATE-OF-THE-ART METHODS AND FUTURE PERSPECTIVES J. Boltze, J. Jolkkonen, A. Denes, G. Metz, M. Macleod, U. Dirnagl ^{8,9} , <i>Germany, USA, Finland, UK, Hungary, Canada</i>	790
149	APOPTOTIC AND NECROTIC PROCESSES IN A RAT ORGANOTYPIC HIPPOCAMPAL SLICE CULTURE MODEL OF ISCHEMIC STROKE WITHOUT REPERFUSION A.I. Martin, P.I. Huynh, R.D. Sweazey, B.C. Hong-Goka, F.-L.F. Chang, <i>USA</i>	1036
150	CALRETICULIN AND CAROTID PLAQUES STABILITY B.-L. Chen, Y. Xu, Z.-Z. Wu, X.-B. Li, <i>China</i>	714

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Ischemic Stroke (contd.)

Board No		Abstract No
151	THE INVOLVEMENT OF PROGRAMMED CELL DEATH 5 (PDCD5) IN THE REGULATION OF APOPTOSIS IN CEREBRAL ISCHEMIA/REPERFUSION INJURY C. Chen, Z. Jiang, X. Yang, J. Yan, L. Yang, K. Wang, Y. Chen, J.H. Zhang, C. Zhou, <i>China, USA</i>	700
152	THE REGENERATIVE EFFECTS OF DANSHENSU AFTER ISCHEMIC STROKE IN ASMA-GFP TRANSGENIC MICE D. Chen, J. Li, D. Drury-Stewart, L. Wei, <i>USA, China</i>	956
153	NEURORESTORATIVE THERAPY FOR STROKE IN TYPE ONE DIABETIC RATS USING APX3330 T. Yan, M. Chopp, A. Zacharek, R. Ning, X. Qiao, M.R. Kelley, C. Roberts, J. Chen, <i>USA</i>	992
154	CHARACTERIZATION OF HYPOXIA INDUCIBLE FACTOR PATHWAY IN NEUROPROTECTION AND NEURORESTORATION FOLLOWING CEREBRAL ISCHAEMIA R. Chen, S. Nagel, M. Papadakis, P. Ratcliffe, C. Pugh, C. Schofield, A. Buchan, <i>UK, Germany</i>	43
155	IMMUNE CELL INFILTRATION AFTER PERMANENT CEREBRAL ISCHEMIA H.X. Chu, H.A. Kim, S. Lee, M. Gelderblom, T.V. Arumugam, G.R. Drummond, C.G. Sobey, <i>Australia, Germany</i>	233
156	HIGH-FAT DIET INDUCES OBESITY, CEREBRAL VASCULAR REMODELING AND INCREASED ISCHEMIC BRAIN INJURY IN MICE J. Deng, L. Xiong, Z. Zuo, <i>USA, China</i>	1200
157	EARLY TREATMENT OF TYPE 2 DIABETIC MICE WITH PIOGLITAZONE REVERSED CEREBRAL VASCULAR REMODELING AND ISCHEMIC BRAIN INJURY AGGRAVATION J. Deng, L. Xiong, Z. Zuo, <i>USA, China</i>	1140
158	DEVELOPMENT OF A CUSTOM-DESIGN MICROWIRE FOR ENDOVASCULAR OCCLUSION OF MIDDLE CEREBRAL ARTERY IN RATS VIA TRANSFEMORAL APPROACH A.A. Divani, X. Wang, R. Chow, X.-H. Zhu, J. Nordberg, A. Murphy, T. Acompanado, J. Tokarev, Y. Zhang, W. Chen, <i>USA</i>	909

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
159	THE EFFECT OF FLUVOXAMINE, ENVIRONMENTAL ENRICHMENT AND DIETARY RESTRICTION ON EXPERIMENTAL STROKE IN RATS D.A. Duricki, A.L. Dixon, K. Galley O'Toole, C. Simmons, M. Mesquita, S.C. Williams, D. Cash, <i>UK</i>	566
160	MIGRAINE PROPHYLACTIC DRUGS LAMOTRIGINE AND TOPIRAMATE SUPPRESS PERI-INFARCT DEPOLARIZATIONS AND IMPROVE STROKE OUTCOMES K. Eikermann-Haerter, J.H. Lee, A. Daneshmand, E.S. Yu, A. Can, B. Sengul, Y. Zheng, N. Yalcin, C. Ayata, <i>USA, North Korea</i>	131
161	CITALOPRAM ENHANCES NEUROVASCULAR REGENERATION AND SENSORIMOTOR FUNCTIONAL RECOVERY AFTER ISCHEMIC STROKE IN MICE A.R. Espinera, Z. Wei, M.E. Ogle, X. Gu, A.C.H. Yu, L. Wei, <i>USA, China</i>	1211
162	THE POLY (ADP-RIBOSE) POLYMERASE INHIBITOR PJ34 COUNTERACTS BLOOD BRAIN BARRIER DAMAGES INDUCED BY RT-PA AFTER ISCHEMIC STROKE IN MICE T. Fei, V. Beray-Berthat, B. Coqueran, C. Lesbats, B. Palmier, M. Garraud, C. Bedfert, N. Slane, D. Scherman, M. Plotkine, B.-T. Doan, C. Marchand-Leroux, I. Margail, <i>France</i>	768
163	ADAMTS13: A NOVEL THERAPEUTIC DRUG CANDIDATE FOR ACUTE STROKE AND FOR DELAYED CEREBRAL ISCHEMIA M. Fujioka, C. Muroi, K. Mishima, Y. Fujimura, K. Okuchi, M. Fujiwara, B.K. Siesjo, <i>Japan, Sweden</i>	198
164	T CELLS CONTRIBUTE TO STROKE-INDUCED LYMPHOPENIA IN RATS L. Gu, X. Xiong, X. Gao, S. Krams, H. Zhao, <i>China, USA</i>	249
165	BNIP3 AND OGD-INDUCED OLIGODENDROCYTE DEATH: ROLE IN WHITE MATTER INJURY IN CEREBRAL ISCHEMIA T. Guan, C. Li, J. Kong, <i>Canada, China</i>	658
166	PROTECTION OF ELECTROACUPUNCTURE AGAINST CEREBRAL ISCHEMIA THROUGH ADIPONECTIN SIGNALING PATHWAY IN STREPTOZOTOCIN-INDUCED DIABETIC MICE F. Guo, Q. Wang, L. Xiong, <i>China</i>	1080

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
167	DO DIFFERENCES IN THE METABOLIC RESPONSES TO STROKE IN OBESE AND LEAN MICE EXPLAIN THE 'OBESITY PARADOX'? M. Haley, C. Lawrence, <i>UK</i>	1115
168	PH-WEIGHTED IMAGING IN ACUTE STROKE: HOW DOES IT COMPARE TO CONVENTIONAL TECHNIQUES? G.W.J. Harston, Y.K. Tee, M. Chappell, N. Blockley, T. Okell, J. Levman, F. Sheerin, M. Cellerini, P. Jezzard, S. Payne, J. Kennedy, <i>UK</i>	404
169	DIFFERENCES IN THE SPECTRAL PARAMETERS OF SKIN-SURFACE LASER-DOPPLER SIGNALS BETWEEN STROKE AND NORMAL SUBJECTS H. Hsiu, C.-T. Chen, F.-C. Lin, C.-L. Hsu, Y.-S. Liu, <i>Taiwan R.O.C.</i>	85
170	GINSENOSEIDE RD BLOCKS AIF MITOCHONDRIO-NUCLEAR TRANSLOCATION AND NF-KB NUCLEAR ACCUMULATION BY INHIBITING POLY(ADP-RIBOSE) POLYMERASE-1 G. Hu, M. Shi, G. Zhao, <i>China</i>	928
171	EARLY SUPERFICIAL TEMPORAL ARTERY TO MIDDLE CEREBRAL ARTERY BYPASS IN ACUTE ISCHEMIC STROKE P.W. Huh, <i>Republic of Korea</i>	194
172	METFORMIN PROMOTES FUNCTIONAL RECOVERY FOLLOWING EXPERIMENTAL STROKE VIA INDUCING ALTERNATIVE POLARIZATION OF MICROGLIA J. Jia, Q. Jin, J. Cheng, X. Zhen, <i>China</i>	1224
173	GENOMIC ANALYSIS OF LEUKOCYTE MRNA SUGGESTS IMMUNE PREDISPOSITION TO HEMORRHAGIC TRANSFORMATION IN ISCHEMIC STROKE G.C. Jickling, B.P. Ander, B. Stamova, X. Zhan, D. Liu, L. Rothstein, P. Verro, J. Khoury, E.C. Jauch, A. Pancioli, J.P. Broderick, F.R. Sharp, <i>USA</i>	876
174	TRANSGENIC NAMPT OVEREXPRESSION PROTECTS AGAINST CEREBRAL ISCHEMIC STROKE Z. Jing, J. Xing, F. Zhang, Y. Gan, J. Chen, G. Cao, <i>USA</i>	1130
175	IS THERE SOMETHING WRONG HOW WE PRODUCE STROKE IN RODENTS? J. Joikonen, <i>Finland</i>	810

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
176	DEPLETED BRAIN TISSUE POTASSIUM AT THE ISCHEMIC EDGE, BUT NOT THE CENTRAL ISCHEMIC CORE, LIMITS INFARCT EXPANSION S.C. Jones, V.E. Yushmanov, A. Kharlamov, <i>USA</i>	763
177	REAL TIME SPREADING DEPOLARIZATION IN HYPERACUTE PHASE OF STROKE USING PERFUSION MRI Y.-C.J. Kao, H.-Y. Lai, W. Lin, Y.-Y.I. Shih, <i>USA</i>	352
178	ENDOGENOUS STEM CELL ACTIVATION THERAPY FOR ISCHEMIC STROKE USING NEUROMODULATORY DRUGS IGF-1 AND ATROVASTATIN: A MULTI-DISCIPLINARY TRANSLATIONAL MEDICINE APPROACH S. Kapoor, S. Rallabandi, G. Revathy, P.K. Roy, <i>India</i>	244
179	THE ROLE OF THE INNATE IMMUNE AND INFLAMMATORY SYSTEM, TRIGGERING RECEPTOR EXPRESSED BY MYELOID CELLS-2 (TREM2), IN THE HYPOTHERMIC THERAPY M. Kawabori, M. Hokari, X.N. Tang, Z. Zheng, C. Calosing, M.A. Yenari, <i>USA</i>	168
180	POSITRON EMISSION TOMOGRAPHY STUDY DURING INTERNAL CAROTID ARTERY TEST OCCLUSIONS: FEASIBILITY OF RAPID QUANTITATIVE MEASUREMENT OF CBF AND OEF/CMRO₂ N. Kawai, M. Kawanishi, A. Shindou, N. Kudomi, T. Tamiya, <i>Japan</i>	236
181	PARAMETERS OF TRANSIENT POST-STROKE HYPOTENSION ASSOCIATED WITH PERI-INFARCT DEPOLARIZATIONS A. Kharlamov, V.E. Yushmanov, S.C. Jones, <i>USA</i>	1052
182	BRAIN INFARCT VOLUME AFTER PERMANENT FOCAL ISCHEMIA IS NOT DEPENDENT ON NOX2 EXPRESSION H.A. Kim, V.H. Brait, S. Lee, T.M. De Silva, H. Diep, A. Eisenhardt, G.R. Drummond, C.G. Sobey, <i>Australia</i>	238
183	CEREBROPROTECTION BY HESPERETIN IS ASSOCIATED WITH RESTORATION OF TRYPTOPHAN METABOLIC ENZYME SYSTEM IN MOUSE S.J. Kim, S.Y. Kim, Y. Fang, W.S. Lee, <i>Republic of Korea</i>	674

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
184	TPA THROMBOLYTIC THERAPY FOR ACUTE ISCHEMIC STROKE IN JAPAN S. Kono, K. Deguchi, T. Kurata, T. Yamashita, Y. Manabe, Y. Takao, K. Kashihara, K. Abe, <i>Japan</i>	272
185	GHRELIN GENE-DERIVED PEPTIDES HAVE PROTECTIVE ROLES IN THE CEREBRAL CIRCULATION, AND IN THE BRAIN AFTER ISCHEMIC STROKE J. Ku, T.M. De Silva, G. Drummond, C. Sobey, S. Spencer, Z. Andrews, A. Miller, <i>Australia</i>	475
186	THE ROLE OF NEUROVASCULAR COUPLING IN STROKE RECOVERY E. Lake, R. Janik, J. Chaudhuri, G. Stanis, B. Stefanovic, <i>Canada</i>	605
187	STUDIES ON THE KALLIKREIN-KININ SYSTEM IN THE CEREBRAL VESSELS, MICROVESSELS AND BRAIN TISSUE AFTER BRAIN ISCHEMIA DAMAGE N.E. Lapina, N. Weinzierl, L. Schilling, <i>Germany</i>	852
188	MATHEMATICAL MODEL OF GLUTAMATE RELEASE DURING ISCHAEMIA S. Laranjeira, J. Palace, M. Symmonds, S. Payne, P. Orłowski, <i>UK</i>	872
189	CHANGES OF GENE EXPRESSION IN FOCAL CEREBRAL ISCHEMIA WITH MICROARRAY ANALYSIS J.E. Lee, S.Y. Cheon, K.J. Cho, G.W. Kim, <i>Republic of Korea</i>	506
190	(-)-EPICATECHIN IMPROVES FUNCTIONAL OUTCOMES FOLLOWING PERMANENT FOCAL ISCHEMIA AND PROTECTS NEURONS THROUGH THE TRANSCRIPTIONAL FACTOR NRF2 C.C. Leonardo, M. Agrawal, N. Singh, S. Dore, <i>USA</i>	800
191	ELEVATED LEVELS OF HEPARANASE AND A POTENTIAL ROLE IN ANGIOGENESIS AFTER ISCHEMIC STROKE IN EXPERIMENTAL MOUSE MODEL AND STROKE PATIENTS J. Li, L. Wang, Y. Zhao, J. Sun, L. Wei, <i>China, USA</i>	1215
192	MKP-1 GENE DELETION EXACERBATES STROKE OUTCOME IN MICE S. Doran, S. DiMauro, B. Manwani, L. Capozzi, V. Scranton, L. McCullough, J. Li, <i>USA</i>	59

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
193	URSOLIC ACID PROMOTES THE NEUROPROTECTION BY ACTIVATING NRF2 PATHWAY AFTER CEREBRAL ISCHEMIA IN MICE L.-T. Li, <i>China</i>	896
194	CYSTAMINE EFFECTIVELY PROMOTES FUNCTIONAL RECOVERY BY INCREASING BRAIN-DERIVED NEUROTROPHIC FACTOR LEVELS IN BRAIN AFTER STROKE IN MOUSE P.-C. Li, Y. Jiao, W. Zhou, G.-J. Teng, <i>China</i>	1251
195	ASSESSMENT OF SPONTANEOUS OSCILLATIONS IN CEREBRAL OXYGENATION HEMODYNAMICS IN SUBJECTS WITH HYPERTENSION Z. Li, M. Zhang, Q. Xin, S. Luo, W. Zhou, R. Cui, L. Lu, <i>China</i>	121
196	THE MODIFICATION AND INHIBITION OF PROTEIN DISULFIDE ISOMERASE BY CYCLOPENTENONE PROSTAGLANDIN 15D-PGJ₂: IMPLICATIONS FOR POST-ISCHEMIC NEURONAL INJURY H. Liu, W. Li, J. Chen, M. Rose, S. Shinde, B. Mutus, M. Balasubramani, G. Uechi, S. Graham, R. Hickey, <i>USA, Canada</i>	905
197	DYNAMIC CHANGES OF MITOCHONDRIAL FUSION AND FISSION PROTEINS AFTER TRANSIENT CEREBRAL ISCHEMIA IN MICE W. Liu, F. Tian, T. Yamashita, K. Deguchi, Y. Ikeda, T. Kurata, K. Abe, <i>Japan</i>	44
198	MIRNA-124 REGULATES IASPP AND AGGRAVATES BRAIN DAMAGE IN THE EARLY STAGES OF EXPERIMENTAL STROKE X. Liu, F. Li, S. Zhao, F. Yan, Y. Luo, X. Ji, <i>China</i>	660
199	AXONAL PLASTICITY OF CORTICOSPINAL TRACT IN THE SPINAL CORD IS CRUCIAL FOR MOTOR RECOVERY AFTER ISCHEMIC STROKE IN ADULT MICE Z. Liu, M. Chopp, X. Ding, Y. Cui, X. Shang, Y. Li, <i>USA</i>	306
200	THE EFFECT OF TLR9 AGONIST ON BRAIN DAMAGE AND CYTOKINES EXPRESSION IN THE WALLS OF CEREBRAL ARTERIES FOLLOWING CEREBRAL ISCHEMIA A. Maddahi, L. Edvinsson, Vascular Research Group, <i>Sweden</i>	1164

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
201	THE DETRIMENTAL EFFECT OF DIET-INDUCED OBESITY ON STROKE OUTCOME IN MICE IS INFLUENCED BY THE DURATION OF THE ISCHEMIC INSULT S. Maysami, B. McColl, C.B. Lawrence , <i>UK</i>	1103
202	VALIDATING A METHOD FOR MEASURING LEPTOMENINGEAL COLLATERAL FLOW IN RATS DURING MIDDLE CEREBRAL ARTERY OCCLUSION D.D. McLeod, D. Beard, M. Imtiaz, N. Spratt, <i>Australia</i>	361
203	SEQUENTIAL MRI STUDIES OF BRAIN ALTERATIONS BEFORE AND DURING STROKE IN A MODEL OF RENOVASCULAR CHRONIC ARTERIAL HYPERTENSION IN RATS B. Ménard, L. Chazalviel, S. Roussel, M. Bernaudin, O. Touzani, <i>France</i>	279
204	NEURAL SUBSTRATES OF MOTOR IMAGERY BASED BRAIN-COMPUTER INTERFACE TRAINING IN UPPER LIMB PARALYSIS FOR STROKE PATIENTS L. Mingfen, J. Jie , <i>China</i>	1030
205	DELAYED NEURONAL LOSS AND PERSISTENT REACTIVE GLIOSIS IN A MOUSE MODEL OF MULTI-LACUNAR INFARCTS W. Minghuan, <i>USA, China</i>	694
206	QUANTITATIVE PROTEOMIC PROFILE OF TISSUE PLASMINOGEN ACTIVATOR (TPA) RESPONDERS M. Ning, J. Cao, M. Lopez, D. Sarracino, D. McMullin, K. Feeney, M. Thayer, M. Elia, H. Koop, F.S. Buonanno, X. Wang, E.H. Lo, <i>USA</i>	602
207	CLINICAL AND PATHOLOGICAL IMPROVEMENT IN STROKE-PRONE SPONTANEOUS HYPERTENSIVE RATS RELATED TO PLEIOTROPIC EFFECT OF CILOSTAZOL Y. Omote, K. Deguchi, F. Tian, H. Kawai, T. Kurata, T. Yamashita, Y. Ohta, Y. Ikeda, K. Abe, <i>Japan</i>	56
208	A MODEL OF THE IMPACT OF HYPOTHERMIA ON CELL SURVIVAL DURING ISCHAEMIC STROKE P. Orłowski, F. Kennedy, S. Payne , <i>UK</i>	802
209	A MODEL OF OEDEMA DURING ISCHAEMIC STROKE P. Orłowski, D. O'Neill, V. Grau, Y. Ventikos, S. Payne , <i>UK</i>	786

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
210	STRENGTHENING OF STRUCTURAL INTERCONNECTIVITY IN THE UNAFFECTED HEMISPHERE CHRONICALLY AFTER EXPERIMENTAL UNILATERAL STROKE W.M. Otte, K. van der Marel, M.P. van Meer, R.M. Dijkhuizen, <i>The Netherlands</i>	331
211	DYNAMICS OF BRAIN OXYGEN DELIVERY THROUGH MODELLING OF THE CEREBRAL MICROVASCULATURE C.S. Park, S.J. Payne, <i>UK</i>	739
212	CAN WE INFER CEREBRAL MICROVASCULATURE PROPERTIES FROM THE RESIDUE FUNCTION? C.S. Park, S.J. Payne, <i>UK</i>	20
213	REGULATION OF BLOOD-BRAIN BARRIER PERMEABILITY BY ISCHEMIC PRECONDITIONING VIA EXTRACELLULAR SIGNAL-REGULATED KINASE ACTIVATION E.-M. Park, J.A. Shin, H.-S. Kim, <i>Republic of Korea</i>	372
214	UP-REGULATION OF HEMEOXYGENASE-1 ATTENUATES BRAIN DAMAGE AFTER CEREBRALISCHEMIA VIA SIMULTANEOUS INHIBITION OF SUPEROXI DEPRODUCTION AND PRESERVATION OF NO BIOAVAILABILITY Y. Qu, <i>China</i>	1280
215	INTEREST OF THE ASSOCIATION OF MESENCHYMAL STEM CELLS WITH PHARMACOLOGICALLY ACTIVE MICROCARRIERS FOR THE CEREBRAL ISCHEMIA TREATMENT IN RAT M.-S. Quittet, O. Touzani, L. Sindji, F. Fillesoye, J.-P. Karam, M. Lecocq, L. Marteau, J. Toutain, D. Divoux, S. Roussel, C. Montero-Menei, M. Bernaudin, <i>France</i>	276
216	OPTICAL COHERENCE TOMOGRAPHY MAPS HEMODYNAMICS AND CELL VIABILITY DURING ACUTE ISCHEMIC STROKE V.J. Srinivasan, H. Radhakrishnan, K. Eikermann-Haerter, C. Ayata, <i>USA</i>	898
217	TAKING NEUTROPHILS OUT OF PLAY IN DEVELOPING SECONDARY NEURONAL DAMAGE BY ANTI VLA-4 TREATMENT M. Riek-Burchardt, J. Neumann, R. König, H. Hütten, K.G. Reymann, M. Gunzer, <i>Germany</i>	756

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Ischemic Stroke (contd.)

Board No		Abstract No
218	DECREASED LEVELS OF SIRT6 IN CEREBRAL ISCHEMIA J. Shao, T. Liu, T. Zhang, W. Xia, <i>China</i>	1014
219	A NOVEL NEUROPROTECTIVE STRATEGY USING METHYLENE BLUE: A LONGITUDINAL MRI STUDY Q. Shen, F. Du, S. Huang, Y.V. Tiwari, T.Q. Duong, <i>USA</i>	933
220	THE ROLE OF BNIP3 IN BRAIN ISCHEMIA/REPERFUSION: REGULATING MITOPHAGY AND APOPTOSIS IN DELAYED NEURON DAMAGE R. Shi, J. Kong, <i>Canada</i>	639
221	IMAGING NEUROVASCULAR FUNCTION AND FUNCTIONAL RECOVERY AFTER STROKE IN THE RAT STRIATUM USING FOREPAW ELECTRICAL STIMULATION UNDER ISOFLURANE ANESTHESIA Y.-Y.I. Shih, S. Huang, Y.-Y. Chen, H.-Y. Lai, F. Du, Y.-C.J. Kao, E.S. Hui, T.Q. Duong, <i>USA, Taiwan R.O.C.</i>	169
222	NEUROPROTECTIVE EFFECT OF OLIVE OIL IN FOCAL CEREBRAL ISCHEMIA MODELS J. Song, D.H. Lee, J.G. Choi, H. Lee, D. Lee, S.K. Moon, H. Kim, <i>Republic of Korea</i>	704
223	RESTORATION OF INTRACORTICAL AND THALAMOCORTICAL CIRCUITS AFTER TRANSPLANTATION OF BONE MARROW MESENCHYMAL STEM CELLS INTO THE ISCHEMIC BRAIN OF MICE M. Song, O. Mohamad, X. Gu, L. Wei, S.P. Yu, <i>USA</i>	1134
224	ROLE OF MIR-15B SUPPRESSION OF BCL-2 IN CEREBRAL ISCHEMIC INJURY AND ITS REVERSAL BY THE PRECONDITIONING OF SEVOFLURANE B.-L. Sun, H. Shi, S. Lu, P. Zhang, H. Wang, Q. Yu, R.A. Stetler, P.S. Vosler, J. Chen, Y. Gao, <i>China, USA</i>	968
225	GLUTATHIONE LEVELS ARE ALTERED FOLLOWING CEREBRAL ISCHEMIA BUT ITS MODULATION DOES NOT AFFECT CELL DEATH IN ASTROCYTES OR NEURONS B.A. Sutherland, Z.B. Redzic, G.L. Hadley, T. Rabie, M. Papadakis, A.M. Buchan, <i>UK, Kuwait</i>	798

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
226	RECOMBINANT TISSUE PLASMINOGEN ACTIVATOR AFFECTS NEURONAL DEATH IN VITRO BUT NOT INFARCT VOLUME IN VIVO FOLLOWING CEREBRAL ISCHAEMIA B.A. Sutherland, C.N. Hall, A.M. Buchan, <i>UK</i>	794
227	A CASE OF CARDIAC RUPTURE AFTER TISSUE PLASMINOGEN ACTIVATOR (TPA) ADMINISTRATION FOR ACUTE CEREBRAL INFARCTION K. Takenaka, N. Tsugita, K. Hayashi, M. Kato, <i>Japan</i>	41
228	OVINE MIDDLE CEREBRAL ARTERY OCCLUSION REPRODUCES KEY FEATURES OF CLINICAL STROKE R.J. Turner, A.V. Leonard, A.J. Wells, R. Vink, <i>Australia</i>	228
229	RETROTRANSPOSON RESPONSE TO GLOBAL CEREBRAL ISCHEMIA AND NEUROINFLAMMATION S. Wang, J. Chien, S. Kelly, <i>USA</i>	315
230	THE NEUROPROTECTIVE EFFECT OF PBEF IN ISCHEMIA IS ASSOCIATED WITH ENHANCED MITOCHONDRIAL FUNCTION AND BIOGENESIS, AND REDUCED ENERGY DEPLETION X. Wang, H. Li, S. Ding, <i>USA</i>	317
231	HSP27 PROTECTS THE BLOOD-BRAIN BARRIER AGAINST ISCHEMIA-INDUCED LOSS OF INTEGRITY Z. Weng, L. Zhang, R.A. Stetler, R.K. Leak, P. Li, G.B. Atkins, Y. Gao, J. Chen, <i>China, USA</i>	982
232	PLASMA KALLIKREIN INDUCES ISCHEMIC BRAIN DAMAGE THROUGH CLEAVAGE-DEPENDENT ACTIVATION OF NMDA RECEPTORS G. Wu, L. Wu, D.E. Clapham, E.P. Feener, <i>USA</i>	801
233	EFFECTS OF PERFUSION-WEIGHTED MRI ANALYSIS AND ACQUISITION TECHNIQUES ON THE ACCURACY OF PREDICTION OF TISSUE OUTCOME AFTER ISCHEMIC STROKE O. Wu, E. McIntosh, R. Bezerra, I. Diwan, S. Mocking, P. Garg, W.T. Kimberly, E.M. Arsava, W.A. Copen, P.W. Schaefer, H. Ay, A.B. Singhal, B.R. Rosen, <i>USA</i>	629
234	PROTECTION FROM CEREBRAL ISCHEMIA BY INHIBITION OF NEUROINFLAMMATION WITH ADJUDIN IN MICE T. Liu, J. Shao, H. Yu, W. Xia, <i>China</i>	1011

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:
Ischemic Stroke (contd.)

Board No		Abstract No
235	ISCHEMIC POSTCONDITIONING DID NOT INHIBIT ACUTE INFARCTION BUT PROVIDED LONG-TERM PROTECTION BY ENHANCING MTOR ACTIVITY IN NUDE RATS R. Xie, P. Wang, X. Ji, H. Zhao, <i>China, USA</i>	328
236	NEURONAL PRODUCTION AND FUNCTION OF LIPOCALIN-2 IN ISCHEMIC STROKE C. Xing, X. Wang, X. Wang, E.H. Lo, <i>USA</i>	1119
237	THE PROTECTIVE EFFECTS OF T CELL DEFICIENCY AGAINST BRAIN INJURY ARE ISCHEMIC MODEL-DEPENDENT IN RATS X. Xiong, L. Gu, H. Zhang, B. Xu, S. Zhu, H. Zhao, <i>USA, China</i>	253
238	THE EXPRESSION OF FIBULIN-5 IN RATS AFTER CEREBRAL ISCHEMIA REPERFUSION G. Xu, X. Qin, T. Tao, <i>China</i>	1285
239	POST-TREATMENT WITH MIR-181 ANTAGOMIR BY INTRACEREBROVENTRICULAR INFUSION REDUCES INJURY AFTER FOCAL CEREBRAL ISCHEMIA L. Xu, Y.-B. Ouyang, R. Giffard, <i>USA</i>	842
240	HOW 24-HOUR BLOOD PRESSURE AND HEART RATE ARE ASSOCIATED WITH PROGRESSIVE MOTOR DEFICITS IN ACUTE PENETRATING ARTERY INFARCTS PATIENTS Y. Yamamoto, Y. Nagakane, M. Makino, <i>Japan</i>	525
241	GENERATION OF SMALL UBIQUITIN-LIKE MODIFIER (SUMO) TRANSGENIC MICE TO IDENTIFY SUMOYLATED PROTEINS IN POST-ISCHEMIC BRAINS BY QUANTITATIVE PROTEOMIC ANALYSIS W. Yang, H. Sheng, S. Zhao, L. Wang, W. Paschen, <i>USA</i>	1131
242	NEUROVASCULAR REMODELING IS PROMOTED BY MINOCYCLINE AFTER ACUTE STROKE: IMPROVEMENT MONITORED WITH MRI AND CONFIRMED WITH HISTOLOGY AND BIOCHEMISTRY Y. Yang, Y.R. Yang, V.M. Salayandia, E.Y. Estrada, J.F. Thompson, G.A. Rosenberg, <i>USA</i>	957

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Ischemic Stroke (contd.)

Board No		Abstract No
243	GLUCOSE METABOLISM AT THE PERI-INFARCT ZONE IN ACUTE ISCHEMIC ANIMAL MODEL H. Yuan, J. Frank, Y. Hong, H. An, C. Eldeniz, A. Bunevicius, J. Nie, W. Lin, <i>USA</i>	668
244	THE ROLE OF DIFFUSING POTASSIUM IN SPREADING DEPOLARIZATION B.-J. Zandt, D. Feuerstein, H. Backes, M. Takagaki, H. Ima, B. ten Haken, M.J.A.M. van Putten, R. Graf, <i>The Netherlands, Germany</i>	284
245	NUCLEAR FACTOR E2-RELATED FACTOR 2 (NRF2) ACTIVATION MEDIATES THE NEUROPROTECTIVE EFFECTS OF OMEGA-3 POLYUNSATURATED FATTY ACIDS AGAINST ISCHEMIC STROKE F. Zhang, M. Zhang, S. Wang, W. Zhang, R.K. Leak, Y. Gao, J. Chen, <i>China, USA</i>	615
246	DYNAMIC CELLULAR RESPONSE FOLLOWING PHOTOTHROMBOSIS-INDUCED ISCHEMIA N. Zhang, L. Hailong, S. Ding, <i>USA</i>	1127
247	CASPASE-3 REGULATES ENDOGENOUS NEUROGENESIS AFTER CEREBRAL ISCHEMIA W. Fan, B.-Q. Zhao, Y. Dai, H. Xu, X. Zhu, <i>China</i>	1151
248	THE ROLE OF ZINC IONS IN BRAIN INJURY FOLLOWING TRANSIENT FOCAL CEREBRAL ISCHEMIA IN RATS Y. Zhao, S. Li, R. Pan, Y. Luo, F. Yan, X. Ji, K. Liu, <i>China, USA</i>	237
249	RHO-ASSOCIATED KINASE INHIBITION AUGMENTS STROKE RECOVERY VIA NEURITE PLASTICITY Y. Zheng, A. Daneshmand, F. Blasi, N. Yalcin, F. Herisson, T. Qin, M. Balkaya, J.N. Camacho, J.B. Mandeville, C. Ayata, <i>USA</i>	781
250	INFLUENCE OF PIGMENT EPITHELIUM-DERIVED FACTOR ON NEUROGENESIS AND ANGIOGENESIS AFTER CEREBRAL ISCHEMIA IN THE MOUSE M. Zille, A. Riabinska, M. Balkaya, M.Y. Terzi, V. Prinz, B. Schmerl, M. Niemminen, M. Endres, P. Vajkoczy, U. Dirnagl, A.L. Pina, <i>Germany</i>	1018

Wednesday, May 22, 2013

08:00-19:00

Poster Area

Poster Session II:

Ischemic Stroke (contd.)

Board No

Abstract No

- 251 **REAL-TIME MEASUREMENT OF MICRO-VASCULAR CBF AND BLOOD OXYGENATION AFTER THROMBOLYSIS IN PATIENTS WITH ACUTE ISCHEMIC STROKE**
P. Zirak, R. Delgado-Mederos, L. Dinia, D. Carrera, I. Blanco, E. Granell, J. Marti-Fabregas, T. Durduran, *Spain* 1214

Pharmacology and Therapeutics

- 252 **CILOSTAZOL IMPROVES AUTOREGULATORY DYSFUNCTION THROUGH ENOS UPREGULATION IN DIABETIC RATS**
S. Takizawa, Y. Tsukamoto, E. Nagata, N. Fukuyama, *Japan* 252



International Society for
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Shanghai
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POSTER SESSION III

THURSDAY, MAY 23, 2013





Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Mitochondria and Other Organelles

Board No		Abstract No
1	EXPOSURE OF DIABETIC RATS TO RECURRENT HYPOGLYCEMIA INCREASES CEREBRAL ISCHEMIC DAMAGE VIA ENHANCED POST-ISCHEMIC MITOCHONDRIAL DYSFUNCTION K.R. Dave, S. Dasani, A. Pileggi, <i>USA</i>	766
2	QUERCETIN PREVENTS MITOCHONDRIAL DYSFUNCTIONS AND BEHAVIORAL DEFICITS IN RODENT MODEL OF HUNTINGTON'S DISEASE R. Sandhir, A. Mehrotra, <i>India</i>	1069
3	MITOCHONDRIAL BIOGENESIS CONTRIBUTES TO THE NEUROPROTECTIVE EFFECT OF LPS PRECONDITIONING AGAINST GLOBAL CEREBRAL ISCHEMIA VIA INDUCTION OF NRF1 R. Stetler, S. Lu, S.H. Hassan, F. Zhang, Z. Weng, Y. Gao, J. Chen, <i>China, USA</i>	1203
4	ROLE OF PARL/HTRA2 PATHWAY IN STRIATAL NEURONAL INJURY AFTER GLOBAL CEREBRAL ISCHEMIA H. Yoshioka, T. Yagi, T. Wakai, K. Hashimoto, P.H. Chan, H. Kinouchi, <i>Japan, USA</i>	1026
5	LONG-TERM EXPOSURE TO NUCLEOSIDE ANALOGUES RESULT IN MITOCHONDRIAL DNA LOSS IN MOUSE CORTICAL NEURONS Y. Zhang, F. Song, L. Qiao, D. Chen, <i>China</i>	101
6	SELENIUM PRESERVES MITOCHONDRIAL FUNCTION, REACTIVATES MITOCHONDRIAL BIOGENESIS, AND PROTECTS AGAINST GLUTAMATE, HYPOXIA AND ISCHEMIA INDUCED NEURONAL DEATH P.A. Li, S.L. Mehta, N. Mendeleev, S. Kumari, <i>USA, China</i>	76

Molecular Mechanisms

7	NEUROPROTECTIVE EFFECTS OF METHOXYPENTADECAN ISOLATED FROM <i>UNCARIA SINENSIS</i> IN PRIMARY CULTURED CORTICAL NEURONS AND PHOTOTHROMBOTIC STROKE MODEL J.Y. Jang, H.N. Kim, Y.R. Kim, H.K. Shin, B.T. Choi, <i>Republic of Korea</i>	204
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Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Molecular Mechanisms (contd.)

Board No		Abstract No
8	ELECTROACUPUNCTURE CONFERS NEUROPROTECTIVE EFFECTS BY INHIBITING IONOTROPIC GLUTAMATE RECEPTORS AND APOPTOTIC PATHWAYS IN FOCAL CEREBRAL ISCHEMIA IN RATS Y.R. Kim, H.N. Kim, J.Y. Jang, J.U. Baek, H.K. Shin, B.T. Choi , <i>Republic of Korea</i>	202
9	LATENT TGF-B-BINDING PROTEIN 1 (LTBP-1), A NOVEL SUBSTRATE FOR THE CARASIL-ASSOCIATED PROTEASE HTRA1 C. Haffner , N. Beaufort, E. Scharrer, M. Ehrmann, M. Dichgans, <i>Germany</i>	844
10	MKP-1 IS INDUCED RAPIDLY AFTER ISCHEMIC STRESS IN NEURON AT PERI-INFARCT AREA AND SHOW NEUROPROTECTION AGAINST OXIDATIVE STRESS <i>IN VITRO</i> H. Horikawa , H. Imai, C. Murata, H. Ono, S. Miyawaki, T. Ochi, A. Ito, S. Torii, N. Saito, <i>Japan</i>	362
11	PHOSPHORYLATION AND ASSEMBLY OF GLUTAMATE RECEPTORS AFTER BRAIN ISCHEMIA T. Luo , F. Zhang, A. Guo, C. Liu, B. Hu, <i>USA</i>	1139
12	MECHANISM OF MORPHINE ON THE EXCITABILITY OF DOPAMINE NEURONS IN THE RAT VENTRAL TEGMENTAL AREA C. Ming , Z. Ping, <i>China</i>	1082
13	VEGF UPREGULATES HOMER1A GENE EXPRESSION VIA THE MITOGEN-ACTIVATED PROTEIN KINASE CASCADE IN CULTURED CORTEX NEURONS Y. Wang , Z. Fei, <i>China</i>	1261
14	DALESCONOLS B ACTIVATES NRF2/HO-1 SIGNALLING AND MEDIATES THE ANTI-INFLAMMATORY EFFECTS IN LPS-INDUCED BV2 MICROGLIA L. Han, K. Yin, Z. Wu, Y. Xu , <i>China</i>	539
15	EFFECT OF MIR-29A ON CELL GROWTH AND APOPTOSIS IN PC12 CELLS UNDER OXIDATIVE STRESS P. Duan, Y. Liu, B. Li, X. Han, Y. Xu, W. Yan , Y. Xing, <i>China</i>	948

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Molecular Mechanisms (contd.)

Board No		Abstract No
16	PEROXIREDOXIN 2 BATTLES PARP1- AND P53-DEPENDENT PRO-DEATH PATHWAYS FOLLOWING ISCHEMIC INJURY L. Zhang, Y. Luo, R.K. Leak, P. Li, H. Zhao, X. Liu, F. Ling, J. Jia, J. Chen, X. Ji, <i>USA, China</i>	1006
17	A PEPTIDE FROM THE RAP1 BINDING DOMAIN OF RALGDS IS A SELECTIVE BLOCKER OF RAP1 Z.-Y. Zhang, M.-F. Yang, D.-W. Li, H.-L. Gao, B.-L. Sun, <i>China</i>	1155
18	METABOTROPIC GLUTAMATE RECEPTOR 5 (MGLUR5) REGULATES NEURITE EXTENSION THROUGH THE SMALL GTPASE RAP1 Z.-Y. Zhang, M.-F. Yang, D.-W. Li, H.-L. Gao, S.-L. Huang, B.-L. Sun, <i>China</i>	1150
19	NOVEL MAGNESIUM-DEPENDENT MODULATION OF JUNCTIONAL CONDUCTANCE AND GATING PROPERTIES OF CONNEXIN36 GAP JUNCTION CHANNELS IN NEURAL CELLS N. Palacios-Prado, A. Marandykina, L. Rimkute, S. Chapuis, N. Paulauskas, V.A. Skeberdis, J. O'Brien, M.V.L. Bennett , F.F. Bukauskas, <i>USA, Lithuania</i>	1048
Neurogenesis, Angiogenesis, and Gliogenesis		
20	CANNABINOID TYPE 2 RECEPTOR ACTIVATION PROMOTES NEUROBLAST MIGRATION AFTER STROKE G. Camarero, J.G. Zarruk, M.I. Cuartero, V. Gonzalez, J. de la Parra, T. Atanes, I. Lizasoain , M.A. Moro, <i>Spain, Canada</i>	715
21	ROLE OF GHRELIN IN DIETARY RESTRICTION-INDUCED HIPPOCAMPAL NEUROGENESIS IN ADULT MICE Y. Kim, E. Li, S. Kim, S. Park, <i>Republic of Korea</i>	696
22	MOLECULAR MECHANISM OF ADULT NEUROGENESIS IN ENRICHED ENVIRONMENT Y. Komleva, A. Salmina, A. Morgun, N. Kuvacheva, N. Malinovskaya, A. Chernyh, S. Cherepanov, N. Yauzina, <i>Russia</i>	1270
23	GHRELIN STIMULATES ADULT HIPPOCAMPAL NEUROGENESIS IN GROWTH HORMONE/INSULIN-LIKE GROWTH FACTOR-1-DEFICIENT SPONTANEOUS DWARF RATS E. Li, Y. Kim, S. Kim, S. Park, <i>Republic of Korea</i>	697

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neurogenesis, Angiogenesis, and Gliogenesis (contd.)

Board No		Abstract No
24	HYPOXIA-INDUCIBLE FACTOR-1A (HIF-1A) IS CRITICAL FOR THE MAINTENANCE OF NEURAL STEM/PROGENITOR CELL (NSPC) CELLS WITHIN THE ADULT SUBVENTRICULAR ZONE (SVZ) L. Li, K.M. Candelario, K. Wright, R. Wang, L.A. Cunningham, <i>USA</i>	1051
25	TLR4 DECREASES BRAIN CELL PROLIFERATION AFTER FOCAL CEREBRAL ISCHEMIA IN YOUNG BUT NOT IN AGED MICE A. Moraga, J.M. Pradillo, M. Oses, A. Perez, R. Cañadas, M.A. Moro, I. Lizasoain, <i>Spain, UK</i>	705
26	EXERCISE PROMOTE REGENERATION OF NEWBORN STRIATO- AND CORTICONIGRAL PROJECTION NEURONS AND IMPROVE MOTOR RECOVERY IN RATS AFTER STROKE Q.-W. Zhang, X. Sun, F.-Y. Sun, <i>China</i>	1268
27	PROTEOMIC ANALYSIS OF ISCHEMIC BRAIN IN PSD-93 KNOCKOUT MICE Q. Zhang, S. Zhang, M. Zhang, Y. Xu, <i>China</i>	550
28	FOCAL BRAIN IRRADIATION AND CXCR4 ANTAGONIST AMD3100 ABOLISH THE ENHANCED FUNCTIONAL RECOVERY INDUCED BY CONSTRAINT-INDUCED MOVEMENT THERAPY AFTER STROKE S. Zhao, C. Zhao, S. Wang, H. Qu, C. Song, <i>China</i>	571
29	COLLAGEN GLYCOSAMINOGLYCAN IMPLANTATION PROVIDES A VASCULAR MICROENVIRONMENT IN PROMOTING NEUROGENESIS IN A SURGICAL BRAIN TRAUMA MODEL OF THE RAT K.-F. Huang, J.-Y. Wang, W.-C. Hsu, <i>Taiwan R.O.C.</i>	695
Neuroinflammation		
30	ISOFLURANE ALONE AND ISOFLURANE PLUS SURGERY INDUCE HIPPOCAMPAL INFLAMMATION AND COGNITIVE DEFICITS J.K. Callaway, C.M. Wood, T.A. Jenkins, C.F. Royse, <i>Australia</i>	925
31	P2X7R/CRYOPYRIN INFLAMMASOME AXIS INHIBITION REDUCES NEUROINFLAMMATION AFTER SAH S. Chen, Q. Ma, P. Krafft, Q. Hu, W. Rolland, P. Sherchan, J. Zhang, J. Tang, J. Zhang, <i>USA, China</i>	829
32	SPLEEN-DERIVED CCR2+ MONOCYTES ARE NOT NECESSARY IN STROKE-INDUCED BRAIN INJURY E. Kim, C. Beltran, S. Cho, <i>USA</i>	870

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroinflammation (contd.)

Board No		Abstract No
33	NORMALIZATION FOR THE EFFECT OF A GENETIC POLYMORPHISM ON THE TRANSLOCATOR PROTEIN IMPROVES MEASUREMENT OF NEUROINFLAMMATION WITH [¹¹C]DPA-713 J. Coughlin, Y. Wang, S. Ma, C. Yue, B. Caffo, C. Endres, M. Pomper , <i>USA</i>	1319
34	DIFFERENTIAL MODULATION OF THE CELLULAR IMMUNE SYSTEM IN SPONTANEOUS INTRACEREBRAL HEMORRHAGE S. Illanes , F. Vial, V. Simon, J. Gajardo, V. Diaz, P. Conget, <i>Chile</i>	154
35	NEUROMODULATORY EFFECTS OF GINKGO BILOBA EXTRACT AGAINST TOXICANT-INDUCED HIPPOCAMPAL INJURY BY SUPPRESSION OF MICROGLIAL ACTIVATION AND PRO-INFLAMMATORY CYTOKINES S. Kaur , B. Nehru, <i>India</i>	698
36	CO-CULTURE WITH MICROGLIA DRIVES DIFFERENTIATION OF NEURAL PROGENITOR CELLS <i>IN VITRO</i> J.E. Lee , J.Y. Choi, J.H. Song, K.K. Bokara, J.H. Choi, <i>Republic of Korea</i>	556
37	EFFECTS OF CURCUMIN ON INFLAMMATORY FACTORS IN SERUM FROM TRANSGENIC MOUSE MODELS OF ALZHEIMER'S DISEASE BY ANTIBODY CHIPS X. Zhang, Y. Li , <i>China</i>	1325
38	THE EFFECTS OF SYSTEMIC INFLAMMATION ON FUNCTIONAL HYPEREMIA AND NEUROVASCULAR COUPLING M. Maczka, Y. Couch, D. Anthony, N.R. Sibson, C. Martin, A. Spain , <i>UK</i>	734
39	DIFFERENTIAL ROLE OF CD8+ T LYMPHOCYTES AND NATURAL KILLER CELLS IN ISCHEMIC STROKE: ANTIGEN DEPENDENCY AND PERFORIN-MEDIATED NEUROTOXICITY E. Mracsko , A. Liesz, A. Stojanovic, M. Oswald, W. Zhou, S. Karcher, F. Winkler, A. Cerwenka, R. Veltkamp, <i>Germany</i>	613
40	SYSTEMIC INFLAMMATION IMPAIRS CEREBRAL BLOOD FLOW AFTER FOCAL CEREBRAL ISCHAEMIA K. Murray , W. Holmes, K. Davies, S. Williams, A. Parry-Jones, S. Allan, <i>UK</i>	716

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:
Neuroinflammation (contd.)

Board No		Abstract No
41	IMAGING BRAIN METASTASES USING TUMOUR INDUCED GLIOSIS E. O'Brien, V. Kersemans, M. Tredwell, B. Checa, C. Escartin, G. Bonvento, D. Anthony, N. Sibson, <i>UK, France</i>	386
42	FOCAL CEREBRAL ISCHEMIA IN THE TNFA-TRANSGENIC RAT: COGNITION, FUNCTION AND POST-ISCHEMIC CELL SURVIVAL L.C. Pettigrew, R.J. Kryscio, <i>USA</i>	219
43	INHIBITION OF NADPH OXIDASE BY APOCYANIN ALTERNATIVELY PREVENTS MICROGLIA INDUCED NEUROINFLAMMATION IN LIPOPOLYSACCHARIDE INDUCED PARKINSONS DISEASE MODEL N. Sharma, B. Nehru, <i>India</i>	693
44	PROBUCOL ATTENUATES HYPERCHOLESTEROLEMIA-INDUCED EXACERBATION IN ISCHEMIC BRAIN INJURY VIA ANTI-NEUROINFLAMMATORY EFFECTS K.H. Choi, J.H. Kim, Y.J. Jang, B.T. Choi, H.K. Shin, <i>Republic of Korea</i>	246
45	GLIA AND MAST CELLS AS TARGETS FOR PALMITOYLETHANOLAMIDE, AN ANTI-INFLAMMATORY AND NEUROPROTECTIVE LIPID MEDIATOR S.D. Skaper, <i>Italy</i>	90
46	IMAGING TRANSLOCATOR PROTEIN EXPRESSION IN GLIOMA PATIENTS: RELATION TO TUMOUR GRADE AND EPILEPTIC SEIZURES Z. Su, K. Herholz, R. Hinz, D.J. Coope, K. Karabatsou, F.E. Turkheimer, A. Jackson, F. Roncaroli, A. Gerhard, <i>UK</i>	396
47	VASCULOPROTECTIVE EFFECTS OF DELAYED LOCAL HYPOTHERMIA AFTER TRANSIENT MIDDLE CEREBRAL ARTERY OCCLUSION IN RATS J.-H. Kim, M. Seo, H.S. Han, J. Park, K. Suk, <i>Republic of Korea</i>	470
48	THE ROLE OF MICROVESICLES IN GLUTAMINASE REGULATION AND MECHANISMS OF GLUTAMATE GENERATION IN HIV-1-INFECTED MICROGLIA B. Wu, Y. Huang, L. Zhao, J. Zheng, <i>USA</i>	1046

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroinflammation (contd.)

Board No		Abstract No
49	MAILUONING PROTECTED AGAINST OXYGEN AND GLUCOSE DEPRIVATION- INDUCED NEURONAL INJURY BY UP-REGULATING PGC-1A Z. Wang, M. Lu, L. Qian, Y. Xu, <i>China</i>	544
50	HB PROMOTES INTRACEREBRAL HEMORRHAGE INFLAMMATION INJURY THROUGH ASSEMBLY OF A TOLL-LIKE RECEPTOR 2 AND 4 HETERODIMER Y.-C. Wang, S. Lin, P.-F. Wang, R.-P. Xiong, H. Fang, M. Song, Q.-L. Liang, Q.-W. Yang , <i>China</i>	931
51	SPLENIC IMMUNE CELLS IN EXPERIMENTAL NEONATAL HYPOXIA-ISCHEMIA N. Fathali, R. Ostrowski, Y. Hasegawa, T. Lekic, J. Tang, J. Zhang , <i>USA</i>	837

Neurological Diseases

52	QUANTITATIVE PROTEOMIC ANALYSIS OF POST-TRANSLATIONAL MODIFICATIONS IN ALZHEIMER'S DISEASE BRAIN S. Zahid, M. Oellerich, A.R. Asif, N. Ahmed , <i>Pakistan, Germany</i>	850
53	PROTECTIVE EFFECT OF ACTEOSIDE ENRICHED FRACTION AGAINST STREPTOZOTOCIN-INDUCED COGNITIVE DYSFUNCTION AND INFLAMMATORY DAMAGE IN RATS A. Pandey, S. Bani , <i>India</i>	967
54	HIGH LEVELS OF DIVERGENT HIV-1 QUASISPECIES IN NEUROLOGICAL OPPORTUNISTIC INFECTIONS D. Chen , Y. Zhang, F. Wei, L. Liu, Z. Liu, <i>China</i>	102
55	DISTRIBUTION OF GLUTAMATE AND VGLUT1 AND THEIR RELATIONSHIP TO CGRP AND CGRP RECEPTOR COMPONENTS IN DURA MATER AND TRIGEMINAL GANGLION S. Eftekhari , L. Edvinsson, <i>Sweden, Denmark</i>	775
56	ASTROCYTIC PARP-1 REGULATES GLUTAMATE TRANSPORTER LEVELS VIA NF-KB IN EXPERIMENTAL WERNICKE'S ENCEPHALOPATHY S.S. Jhala, D. Wang, A.S. Hazell , <i>Canada</i>	1324

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neurological Diseases (contd.)

Board No		Abstract No
57	IMBALANCE OF CA²⁺ AND K⁺ FLUXES IN C6 GLIOMA CELLS AFTER PDT MEASURED WITH SCANNING ION-SELECTIVE ELECTRODE TECHNIQUE S. Hu, H. Feng, <i>China</i>	990
58	DUAL MODULATION OF HETEROMERIC ACID-SENSING ION CHANNEL 1A/3 CHANNEL BY ZINC Q. Jiang, X.-P. Chu, <i>USA</i>	1044
59	BEHAVIOURAL AND HISTOPATHOLOGICAL ASSESSMENT OF THE EFFECTS OF PERIODIC FASTING ON PENTYLENETETRAZOL-INDUCED SEIZURES IN RATS F. Karimzadeh, M. Jafarian, M. Gharakhani, S. Razeghi, A. Gorji, <i>Iran, Germany</i>	4
60	AUTOPHAGY IS INVOLVED IN NG2 CELL-MEDIATED CLEARANCE OF AMYLOID PEPTIDE Z. Ke, <i>China</i>	158
61	AUGMENTATION OF THE SENSORY-EVOKED HEMODYNAMIC RESPONSE IN AN EARLY ALZHEIMER'S DISEASE MOUSE MODEL J. Kim, Y. Jeong, <i>Republic of Korea</i>	733
62	NEUROPROTECTION OF ANXIETY LIKE BEHAVIOUR AND OXIDATIVE DAMAGE IN MICE THROUGH RUTIN L. Machawal, A. Kumar, <i>India</i>	1165
63	PROGNOSTIC VALUE OF FREE RADICAL MARKERS AND HYPERGLYCEMIA IN STROKE PATIENTS A. Orlova, E. Silina, S. Rumiantseva, N. Gomboeva, S. Bolevich, <i>Russia</i>	418
64	SCANS WITHOUT EVIDENCE OF DOPAMINERGIC DEFICIT (SWEDD): FROM CLINICAL PRACTICE TO DAT MOLECULAR IMAGING B. Paghera, A. Alkhraisheh, I. Delrio, E. Premi, A. Padovani, R. Giubbini, <i>Italy</i>	289

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neurological Diseases (contd.)

Board No

Abstract No

- 65 **CHANGES OF BRAIN TISSUE VOLUMES AND PERFUSION WITH THE NUMBER OF OPTIC NEURITIS ATTACKS IN RELAPSING NEUROMYELITIS OPTICA**
C. Sánchez-Catasús, J. Cabrera-Gomez, W. Almaguer Melián, J.L. Giroud Benítez, R. Rodríguez Rojas, J. Bosch Bayard, L. Galán, R. Galvizo Sánchez, N. Pavón Fuentes, A. Aguila Ruiz, P. Valdes-Sosa, *Cuba* 760
- 66 **GINSENOSE-INDUCED ATTENUATES AB-INDUCED TAU PHOSPHORYLATION VIA ALTERING THE FUNCTIONAL BALANCE OF GLYCOGEN SYNTHASE KINASE-3B AND PROTEIN PHOSPHATASE-2A**
M. Shi, L. Li, G. Zhao, *China* 927
- 67 **A NOVEL APPROACH TO ATTENUATE CEREBRAL VASOSPASM: INTRANASAL DELIVERY OF CALCITONIN GENE-RELATED PEPTIDE TO INCREASE NITRIC OXIDE CONTENT**
B.-L. Sun, Y. Wang, C.-B. Zheng, Y. Zhao, M.-F. Yang, Z.-Y. Zhang, D.-W. Li, F. Zhang, X.-M. Hu, *China* 1029
- 68 **GAP-JUNCTION IS A POTENTIAL TARGET FOR EPILEPTIC THERAPY IN HUMAN GELASTIC SEIZURES WITH HYPOTHALAMIC HAMARTOMA**
J. Wu, *USA, China* 1055
- 69 **PRENATAL OMEGA-3 POLYUNSATURATED FATTY ACIDS SUPPLEMENT MITIGATES SEVOFLURANE-INDUCED NEUROAPOPTOSIS AND MEMORY IMPAIRMENT IN NEONATAL RATS**
L. Xi, W. Zhang, H. Xiao, T. Yuan, J. Shao, W. Liang, W. Xia, J. Zhang, *China* 322
- 70 **ROLE OF SCH79797 IN MAINTAINING VASCULAR INTEGRITY IN RAT MODEL OF SUBARACHNOID HEMORRHAGE**
J. Yan, A. Manaenko, S. Chen, N.H. Khatibi, Q. Ma, K. Duris, B. Caner, M. Fujii, J.H. Zhang, *China, USA* 323
- 71 **PROTEIN S-NITROSYLATION: IDENTIFICATION OF DIFFERENTIALLY S-NITROSYLATED PROTEINS IN ALZHEIMER'S DISEASE BRAIN**
S. Zahid, R. Khan, M. Oellerich, N. Ahmed, A.R. Asif, *Pakistan, Germany* 735

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neurological Diseases (contd.)

Board No

Abstract No

- 72 **CONVENTIONAL MRI AND DIFFUSION TENSOR IMAGING (DTI) STUDIES IN CHILDREN WITH NOVEL GPR56 MUTATIONS: FURTHER DELINEATION OF A COBBLESTONE-LIKE PHENOTYPE**
G. Zanni, C.C. Quattrocchi, A. Napolitano, D. Longo, D.M. Cordelli, S. Barresi, F. Randisi, E.M. Valente, T. Verdolotti, E. Genovese, N. Specchio, G. Vitiello, R. Spiegel, E.S. Bertini, B. Bernardi, *Italy, Israel* 628

Neuroprotection

- 73 **THE NEUROPROTECTIVE EFFECTS OF ANTIDEPRESSANTS IN THE PHARMACOLOGICAL EXPERIMENTS**
I.I. Abramets, D.V. Evdokimov, A.N. Talalayenko, *Ukraine* 741
- 74 **THE NEUROPROTECTIVE EFFECT OF CHOROID PLEXUS EPITHELIAL CELLS CONDITIONED MEDIA AGAINST OXIDATIVE STRESS-INDUCED APOPTOSIS IN PC12 CELLS**
A. Aliaghaei, A. Ahmadiani, F. Khodaghali, *Iran* 1094
- 75 **NEUROPROTECTIVE EFFECT OF EXTRACTS OF *SPHAERANTHUS INDICUS* ON TRANSIENT CEREBRAL ISCHEMIA REPERFUSION AND LONG-TERM CEREBRAL HYPOPERFUSION IN RATS**
D.B. Ambikar, G.P. Mohanta, *India* 757
- 76 **NXY-059 DOES NOT PROTECT STEM CELL-DERIVED HUMAN NEURONS: FIRST USE OF A NOVEL DRUG SCREENING PROTOCOL**
A. Antonic, M. Dottori, J. Leung, M. Macleod, G.A. Donnan, D.W. Howells, *Australia, UK* 465
- 77 **THERAPEUTIC EFFECT OF CHRONIC AND ACUTE LITHIUM APPLICATION FOLLOWING TRAUMATIC BRAIN INJURY IN MICE**
M. Balbi, S. Schwarzmaier, N. Plesnila, *Germany, Ireland* 709
- 78 **NEUROPROTECTIVE AND ENDOTELIOTROPICAL FEATURES OF THE NEW MEDICAL DRUG "LISINIY" IN ISCHEMIAL DAMADGE OF THE BRAIN**
I.F. Belenichev, L.I. Kutcherenko, I.A. Masur, N.V. Buhtiyarova, S.V. Pavlov, *Ukraine* 32
- 79 **INFLUENCE ON THE GLUTATIONE SYSTEM OF THE OLD AND YOUNG ANIMALS IN MODELS OF THE CEREBRAL ISCHEMIA**
I.F. Belenichev, S.V. Pavlov, N.V. Buhtiyarova, *Ukraine* 24

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroprotection (contd.)

Board No		Abstract No
80	VASOACTIVE INTESTINAL PEPTIDE (VIP) REVERSES THE HYPOMYELINATION IN THE AGED RAT BRAIN: ROLE OF BDNF AND IGF-I L. Cacicedo, M. Sanchez-Grande, F. Sanchez-Franco, <i>Spain</i>	16
81	A NOVEL NEUROPROTECTIVE REGIMEN AGAINST ISCHEMIC BRAIN INJURY BY CONCOMITANT INACTIVATION OF THE CASR AND ACTIVATION OF THE GABA-B-R1 J.Y. Kim, N. Kim, H. Ho, J. Liu, M. Yenari, W. Chang , <i>USA</i>	804
82	OUTLOOK OF PROGESTERONE NEUROPROTECTION: BEYOND THE AGING FEMALE CHIMPANZEES STUDY W. Chen, <i>China</i>	232
83	DANSHENSU PROTECTS AGAINST 6-HYDROXYDOPAMINE-INDUCED DAMAGE OF PC12 CELLS IN VITRO AND DOPAMINERGIC NEURONS IN ZEBRAFISH C.-M. Chong, Z.-Y. Zhou, V. Razmovski-Naumovski, G.-Z. Cui, L.-Q. Zhang, F. Sa, P.-M. Hoi, K. Chan, M.-Y.S. Lee, <i>Macau, Australia</i>	1195
84	MODIFYING NEUROREPAIR AND NEUROREGENERATIVE FACTORS WITH TPA AND EDARAVONE AFTER TRANSIENT MIDDLE CEREBRAL ARTERY OCCLUSION IN RAT BRAIN K. Deguchi, N. Liu, W. Liu, Y. Omote, T. Yunoki, S. Kono, S. Deguchi, T. Yamashita, K. Abe, <i>Japan</i>	341
85	PEROXIREDOXIN-2 OVEREXPRESSION SUPPRESSES ISCHEMIC NEURONAL INJURY BY INHIBITING THE REDOX-SENSITIVE ACTIVATION OF THE ASK-1 SIGNALING PATHWAY S.H. Hassan, X. Ji, Y. Gan, X. Hu, Y. Luo, L. Zhang, P. Li, X. Liu, F. Yan, P. Vosler, Y. Gao, R. Stetler, J. Chen, <i>China, USA</i>	1205
86	CONCURRENT TREATMENT WITH VITAMIN C AND ADENOSINE A1 RECEPTOR ON HIPPOCAMPUS IN GAMMA IRRADIATION J. Hassanshahi, <i>Iran</i>	52
87	MILD HYPOTHERMIA AFFECT AUTOPHAGY IN RATS AFTER SUBARACHNOID HEMORRHAGE H. Hui, Z. Fei, <i>China</i>	1269
88	PRE-TREADMILL ALLEVIATE THE CEREBRAL CORTEX BLOOD FLOW ON ISCHEMIC STROKE RAT X. Yang, H. Lu, J. Jia , <i>China</i>	670

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroprotection (contd.)

Board No		Abstract No
89	RGD-CONTAINING OTEOPONTIN ICOSAMER PEPTIDE AFFORDS NEUROPROTECTIVE EFFECT IN THE POSTISCHEMIC BRAIN VIA ANTI-INFLAMMATORY FUNCTIONS Y.-C. Jin, I.-D. Kim, H.-K. Lee, H.-B. Lee, L. Luo, P.-L. Han, J.-K. Lee, Republic of Korea	642
90	NEUROPROTECTION OF XUESHUANTONG: INHIBITING THE ACTIVATION OF MICROGLIA H. Jing, S. Wang, L. Hu, China	505
91	ISCHEMIC POSTCONDITIONING PROTECTS AGAINST FOCAL CEREBRAL ISCHEMIA BY INHIBITING BRAIN INFLAMMATION WHILE ATTENUATING PERIPHERAL LYMPHOPENIA IN MICE S. Joo, W. Xie, X. Xiong, B. Xu, H. Zhao, USA	997
92	NEUROPROTECTION BY AN AT2 RECEPTOR AGONIST FOLLOWING ISCHEMIC STROKE S. Lee, V.H. Brait, T.V. Arumugam, M.A. Evans, H.A. Kim, R.E. Widdop, G.R. Drummond, E.S. Jones, C.G. Sobey, Australia	239
93	SEARCH NEUROPROTECTORS WITH ANTIOXIDANT MECHANISM OF ACTION IN A NUMBER DERIVATIVES OF 3-METHYLANTHINE K.V. Alexandrova, O.S. Shkoda, D.M. Yurchenko, O.I. Belenicheva, I.F. Belenichev, S.V. Levich, Ukraine	25
94	SAFETY AND FEASIBILITY OF REMOTE LIMB ISCHEMIC PRECONDITIONING IN PATIENTS WITH UNILATERAL MIDDLE CEREBRAL ARTERY STENOSIS AND IN HEALTHY VOLUNTEERS S. Li, G. Shao, X. Ji, China	1171
95	NEUROPROTECTIVE EFFECT OF SHEXIANGBAOXIN PILL ON FOCAL CEREBRAL ISCHEMIA IN RATS X. Liang, S. Li, L. Jinning, China	180
96	NONSELECTIVE CALCIUM CHANNEL BLOCKER BEPRIDIL DECREASES SECONDARY PATHOLOGY IN HAPP_{SL} MICE AFTER CORTICAL LESION A. Lipsanen, S. Flunkert, K. Kuptsova, M. Hiltunen, M. Windisch, B. Hutter-Paier, J. Jolkkonen, Finland, Austria	690

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroprotection (contd.)

Board No		Abstract No
97	THE NEUROPROTECTIVE MECHANISM OF ERYTHROPOIETIN-TAT FUSION PROTEIN AGAINST NEURODEGENERATION FROM ISCHEMIC BRAIN INJURY P. Liu, X. Liu, A.K.-F. Liou, X. Ji, X. Liu, H. Zhao, F. Yan, J. Chen, G. Cao, Y. Luo, <i>China, USA</i>	133
98	LUTEIN ENHANCES SURVIVAL AND REDUCES NEURONAL DAMAGE IN CEREBRAL AND RETINAL ISCHEMIA/REPERFUSION INJURY A.C.Y. Lo, S.-Y. Li, F.K.C. Fung, D. Yang, D. Wong, <i>Hong Kong S.A.R.</i>	681
99	REPETITIVE HYPOXIC PRECONDITIONING AMELIORATES COGNITIVE IMPAIRMENT AND WHITE MATTER LESIONS G. Li, R. Meng, C. Ren, J. Jia, X. Wang, J. Shi, Y. Duan, Y. Ding, X. Ji, <i>China, USA</i>	1002
100	DHCR24/SELADIN1 PROTECTS THE BRAIN FROM EXPERIMENTAL CEREBRAL ISCHEMIA IN MICE M. Hernandez, O. Hurtado, I. Ballesteros, I. Garcia-Yebenes, C.G. Dotti, E. Gabande, I. Lizasoain, M.A. Moro, <i>Spain</i>	710
101	THE KETOGENIC DIET INHIBITES HIPPOCAMPAL REGENERATIVE MOSSY FIBER SPROUTING BY SUPPRESSING ZNT3 EXPRESSION IN HIPPOCAMPUS FOLLOWING DEVELOPEMENTAL SEIZURES H. Ni, X.-Y. Zhang, T. Tian, B.-L. Sun, <i>China</i>	1089
102	SOME ASPECTS OF THE NEUROPROTECTIVE ACTION OF THE EXOGENOUS HSP70 I.F. Belenichev, S.V. Pavlov, N.V. Buhtiyarova, E.V. Odnokoz, <i>Ukraine</i>	29
103	NEUROPROTECTIVE EFFECT OF A NEW SYNTHETIC ASPIRIN-DECURSINOL ADDUCT IN A RAT MODEL OF ISCHEMIC STROKE J.H. Park, J.-C. Lee, S.U. Lee, B.C. Yan, J.H. Cho, Y.L. Lee, M.-H. Won, <i>Republic of Korea</i>	474
104	LONG TERM PROTECTION AFTER ISCHAEMIC STROKE IN CO-MORBID RATS WITH SUBCUTANEOUS ADMINISTRATION OF IL-1 RECEPTOR ANTAGONIST (IL-1RA) J.M. Pradillo, K.N. Murray, H. Boutin, N.J. Rothwell, S.M. Allan, <i>UK</i>	736

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroprotection (contd.)

Board No		Abstract No
105	CHOROID PLEXUS SYNTHESIZES TESTOSTERONE FROM ANDROSTENEDIONE: REGULATION OF 17BHS3 BY THE SEX HORMONE BACKGROUND T. Quintela, F.M. Patriarca, I. Gonçalves, A.V.M. Canário, C.R.A. Santos, <i>Portugal</i>	722
106	REPETITIVE HYPOXIA AFTER CHRONIC CEREBRAL HYPOPERFUSION INDUCE VASCULAR REMODELING IN RAT C. Ren, J. Cao, N. Li, X. Ji, <i>China</i>	1233
107	THE OLFACTORY MACHINERY IS EXPRESSED IN RAT CHOROID PLEXUS: CAN IT SMELL THE CEREBROSPINAL FLUID? C. Santos, G. Tavares, T. Quintela, P. Hubbard, I. Gonçalves, <i>Portugal</i>	731
108	THE SEX HORMONE BACKGROUND REGULATES THE RAT CHOROID PLEXUS TRANSCRIPTOME C. Santos, T. Quintela, L. Carreto, M. Santos, H. Marcelino, F. Patriarca, I. Gonçalves, <i>Portugal</i>	561
109	CEREBROLYSIN TREATMENT ATTENUATES FUNCTIONALIZED MAGNETIC IRON OXIDE NANOPARTICLES INDUCED CNS INJURY FOLLOWING HYPERTHERMIA A. Sharma, P.K. Menon, J.V. Lafuente, Z.P. Aguilar, A. Wang, D.F. Muresanu, H. Moessler, R. Patnaik, H.S. Sharma, <i>Sweden, Spain, USA, Romania, Austria, India</i>	68
110	NANOPARTICLES AGGRAVATE NEUROPATHIC PAIN SYNDROME AND BLOOD-SPINAL CORD BARRIER BREAKDOWN, ASTROCYTIC ACTIVATION AND NEURAL INJURY: NEUROPROTECTIVE EFFECTS OF CEREBROLYSIN H.S. Sharma, L. Feng, D.F. Muresanu, H. Moessler, A. Sharma, <i>Sweden, China, Romania, Austria</i>	64
111	POSSIBLE INVOLVEMENT OF UBIQUITIN PROTEASOME SYSTEM IN ACUTE AND DELAYED ASPECTS OF ISCHEMIC PRECONDITIONING OF BRAIN IN MICE T.G. Singh, A.K. Rerhni, <i>India</i>	490
112	NITROZINE STRESS AND NEUROLOGICAL DISORDERS IN EXPERIMENTAL ALCOHOL INTOXICATION AND THEIR PHARMACOLOGICAL CORRECTION BY NEUROPEPTIDES E.P. Sokolik, <i>Ukraine</i>	1

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:
Neuroprotection (contd.)

Board No		Abstract No
113	THE IMPACT OF NEUROTROPHIC CEREBROPROTECTION ON THE EXPRESSION OF HSP70 IN THE BRAIN OF RATS WITH PRENATAL CHRONIC ALCOHOLISM A. Egorov, I. Belenichev, E.P. Sokolik , <i>Ukraine</i>	27
114	TREATMENT WITH SELECTIVE GPER1/GPR30 AGONIST G1 REVEALS AGE-STRATIFIED NEUROPROTECTIVE EFFECTS IN MICE AFTER CARDIAC ARREST K. Shimizu, J.L. Exo, N. Quillinan, R. Vest, P.S. Herson, R.J. Traystman , <i>USA</i>	443
115	HYDROGEN SULFIDE ATTENUATES HOMOCYSTEINE INDUCED NEURODEGENERATION IN MICE N. Tyagi , P.K. Kamat, A. Kalani, <i>USA</i>	1303
116	GINSENOSEIDE RD ENHANCES AB-IMPAIRED NEUROGENESIS OF SUBVENTRICULAR ZONE THROUGH VEGF INVOLVEMENT B. Wang , <i>China</i>	1241
117	NEUROPROTECTIVE EFFECT OF HYPERBARIC OXYGEN PRECONDITIONED AGAINST CEREBRAL ISCHEMIC INJURY IN RAT: INVOLVEMENT OF NQO1 AND HMOX1 K. Wang , Z. Fei, <i>China</i>	1272
118	SIMVASTATIN INDUCES NEUROPROTECTION IN 6-OHDA LESIONED PC12 VIA THE PI3K/AKT/CASPASE 3 PATHWAY AND ANTI-INFLAMMATORY RESPONSES H. Gao , Y. Xu, L. Long, Q. Wang, <i>China</i>	986
119	NEUROGLOBIN INHIBITS OXYGEN-GLUCOSE DEPRIVATION-INDUCED MITOCHONDRIAL PERMEABILITY TRANSITION PORE OPENING IN PRIMARY CULTURED MOUSE CORTICAL NEURONS Z. Yu, N. Liu, X. Wang , <i>USA</i>	1005
120	THE NEUROPROTECTION OF AEROBIC EXERCISE ON THE HSP70 EXPRESSION IN BRAIN OF CUMS RATS EXPOSED TO NOVEL ACUTE STRESS L. Xin , <i>China</i>	1194

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:
Neuroprotection (contd.)

Board No		Abstract No
121	CEREBROLYSIN, A NEUROPEPTIDE PREPARATION MIMICKING THE ACTION OF NEUROTROPHIC FACTORS, IMPROVES FUNCTIONAL RECOVERY AFTER EXPERIMENTAL TRAUMATIC BRAIN INJURY Y. Xiong, Z.G. Zhang, Y. Zhang, Y. Meng, E. Doppler, A. Mahmood, M. Chopp, <i>USA, Austria</i>	959
122	EFFECTS OF ALOGLIPTIN ON THE METABOLISM OF NITRIC OXIDE (NO) AND HYDROXY RADICALS IN BRAIN DURING BRAIN ISCHEMIA-REPERFUSION M. Yamazato, Y. Ito, R. Nishioka, M. Hirayama, N. Araki, <i>Japan</i>	560
123	INTRACEREBRAL ADMINISTRATION OF ULTRASOUND-INDUCED DISSOLUTION OF LIPID-COATED GDNF MICROBUBBLES PROVIDES NEUROPROTECTION IN A RAT MODEL OF PARKINSON'S DISEASE X. Yang, G. Cui, X. Wang, X. Shen, <i>China</i>	988
124	HSP70 OVEREXPRESSION REDUCES HEMORRHAGE AND IMPROVES BEHAVIOR THROUGH THE REGULATION OF EXPRESSION AND ACTIVATION OF MMPs FOLLOWING TRAUMATIC BRAIN INJURY J.Y. Kim, N. Kim, M.A. Yenari, <i>USA</i>	636
125	HSP70 INDUCTION BY 17-AAG AS A POTENTIAL THERAPEUTIC FOR TRAUMATIC BRAIN INJURY N. Kim, J.Y. Kim, E. Kim, M.A. Yenari, <i>USA</i>	188
126	NEUROPROTECTIVE EFFECTS OF PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR γ AGONIST IN TRANSIENT FOREBRAIN ISCHEMIA H. Yoshioka, T. Wakai, T. Yagi, Y. Fukumoto, K. Hashimoto, T. Horikoshi, H. Kinouchi, <i>Japan</i>	774
127	THE EFFECT OF SEVOFLURANE PRECONDITIONING ON PROTEINS WITH CIS-REGULATORY ELEMENT NFKB AGAINST CEREBRAL ISCHEMIA AND REPERFUSION IN RATS Q. Yu, W. Liang, <i>China</i>	157
128	ACUTE AND DELAYED PROTECTIVE EFFECTS OF PHARMACOLOGICALLY INDUCED HYPOTHERMIA IN AN INTRACEREBRAL HEMORRHAGE STROKE MODEL OF MICE S.P. Yu, J. Sun, J. Li, C.L. Hall, T.A. Dix, L. Wei, <i>USA, China</i>	963

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Neuroprotection (contd.)

Board No		Abstract No
129	FOOD RESTRICTION ATTENUATES ISCHEMIC NEURAL INJURY AND FACILITATES FUNCTIONAL RECOVERY IN MICE J. Zhang, S.D. Lu, L.L. Mao, H.J. Pu, C.R. An, H. Gao, W.T. Zhang, J. Chen, Y.Q. Gao, <i>China, USA</i>	351
130	THE EFFECT OF CAFFEINE IN TRAUMATIC BRAIN INJURY INDUCED CEREBRAL BLOOD FLOW CHANGES S.C.R. Bandaru, S. Kallakuri, Y. Shen, H. Li, E.M. Haacke, L. Zhang, J.M. Cavanaugh, <i>USA</i>	899
131	LOCAL INTRA-ARTERIAL INFUSION OF ERYTHROPOIETIN DELAYED THERAPEUTIC TIME WINDOW OF TPA IN RATS FOLLOWING FOCAL CEREBRAL ISCHEMIA H. Zhao, X. Liu, R. Wang, J. Gao, X. Liu, F. Yan, L. Ping, X. Ji, Y. Luo, <i>China</i>	950
132	ACTIVATION OF CEREBRAL PEROXISOME PROLIFERATOR-ACTIVATED RECEPTORS γ INHIBITS THE MITOCHONDRIAL APOPTOTIC PATHWAY AFTER FOCAL CEREBRAL ISCHAEMIA IN RATS Y. Zhao, U. Lützen, M. Zuhayra, T. Herdegen, J. Culman, <i>Germany</i>	855
133	PROTECTIVE EFFECT OF A NOVEL ROCK INHIBITOR AGAINST MPP⁺-INDUCED NEUROTOXICITY THROUGH ENHANCING AKT ACTIVATION AND ROS-SCAVENGING CAPACITY Z.Y. Zhou, C.-M. Chong, T.-J. Hou, M.-Y. Shen, H.-D. Yu, Y.-Y. Li, P.-C. Pan, S.-Y. Zhou, L.-L. Zhang, S.M.Y. Lee, <i>China</i>	1101
134	ISOFLURANE POST-TREATMENT AMELIORATES GERMINAL MATRIX HEMORRHAGE-INDUCED BRAIN INJURY BY ACTIVATING THE SPHINGOSINE KINASE/AKT PATHWAY IN NEONATAL RATS A.S. Leitzke, W.B. Rolland, P.R. Krafft, T. Lekic, J.J. Flores, D. Klebe, N.R. Van Allen, R.L. Applegate, J.H. Zhang, <i>USA</i>	1160

Neurovascular Unit

135	INVESTIGATING THE NEGATIVE BOLD SIGNAL BY SINGLE IMPULSE NEURAL STIMULATION L. Boorman, R. Slack, J. Berwick, <i>UK</i>	593
136	HYDROGEN PROTECTS AGAINST DELAYED NEUROVASCULAR DYSFUNCTION AFTER ASPHYXIA IN PIGLETS F. Domoki, O. Oláh, V. Tóth-Szúki, P. Temesvári, F. Bari, <i>Hungary</i>	257

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:
Neurovascular Unit (contd.)

Board No		Abstract No
137	THE VASCULOME OF MOUSE BRAIN S. Guo, Y. Zhou, C. Xing, J. Lok, A.T. Som, M. Ning, X. Ji, E.H. Lo, <i>USA, China</i>	633
138	DEVELOPMENT OF REMOTE MEDICAL SERVICE SYSTEM AND NEUROVASCULAR TREATMENT PLANNING USING SMARTPHONE B.T. Kim, <i>Republic of Korea</i>	231
139	INDUCTION OF NEUROVASCULAR PROTEASES AND PERINATAL CEREBRAL HEMORRHAGE BY VEGF IN THE GERMINAL MATRIX D. Yang, Y.-Y. Sun, J. Baumann, A. Kuan, <i>USA</i>	565
140	CELLS OF THE NEUROVASCULAR UNIT DURING OXYGEN GLUCOSE DEPRIVATION: PROTECTIVE AND HARMFUL EFFECTS OF NEUROVASCULAR UNIT-DERIVED SIGNALING MOLECULES Z.B. Redzic, T. Rabie, B.A. Sutherland, A.M. Buchan, <i>UK, Kuwait</i>	616
141	DECIPHERING NEURONAL CIRCUITRY CONTROLLING LOCAL BLOOD FLOW IN CEREBRAL CORTEX OF RODENTS WITH OPTOGENETICS AND CHRONIC FUNCTIONAL ULTRASOUND IMAGING J. Rossier, A. Urban, <i>France</i>	1022
142	CEREBRAL VENOUS POTASSIUM EFFLUX DURING SPREADING DEPRESSION J. Seidel, U. Hoffmann, C. Ayata, <i>USA, Germany</i>	578
143	THE IMPORTANCE OF MACROSCALE OPTICAL IMAGING SPECTROSCOPY IN A MOUSE MODEL OF NEUROVASCULAR COUPLING P. Sharp, A. Kennerley, M. Azzouz, J. Berwick, <i>UK</i>	411
144	INFECTION OF HUMAN PERICYTES BY HIV-1 DISRUPTS THE INTEGRITY OF THE BLOOD-BRAIN BARRIER S. Nakagawa, V. Castro, M. Toborek, <i>USA</i>	1284

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Oxidative Mechanisms

Board No		Abstract No
145	LOWER VITAMIN C LEVELS IN THE BRAIN OF PATIENTS WITH TYPE 2 DIABETES I.-Y. Choi, M.A. Levine, D. Robbins, J.A. Drisko, D.K. Sullivan, Q. Chen, J.A. Lierman, P. Lee, <i>USA</i>	573
146	ROLE OF ENDOGENOUS OPIOIDS AND THEIR INTERACTIONS WITH NITRIC OXIDE (NO) DURING STRESS INDUCED ANXIOGENESIS IN RATS K. Gulati, R. Anand, J. Joshi, A. Ray, <i>India</i>	832
147	ASCORBATE DEFICIENCY INTERACTS WITH ICV-STZ MODEL OF AD IN MONKEYS J.-H. Heo, K.-M. Lee, <i>Republic of Korea</i>	1314
148	PSYCHO-EMOTIONAL STRESS AND FUNCTIONAL STATUS OF ANTIOXIDANT SYSTEMS IN BRAIN Z. Kuchukashvili, N. Koshoridze, K. Menabde, G. Burjanadze, M. Chachua, <i>Georgia</i>	118
149	BIOCOMPATIBLE SILVER NANOPARTICLE PRECONDITIONING OF BRAIN: A POSSIBLE ROLE OF FREE RADICAL MEDIATED NUCLEAR FACTOR KAPPA-B ACTIVATION LINKED MECHANISM A.K. Rehni, T.G. Singh, <i>India</i>	371

Pharmacology and Therapeutics

150	CHARACTERISING EFFECT OF DONEPEZIL ON CEREBRAL ACTIVITY AND METABOLISM BY SIMULTANEOUS IN VIVO EEG AND 2-DEOXYGLUCOSE AUTORADIOGRAPHY D. Cash, C. Simmons, D. Duricki, A.L. Dixon, T. Patel, L.A. Dawson, D. Lythgoe, S.C. Williams, M. Mesquita, <i>UK</i>	645
151	SCM-198 ATTENUATES LIPOPOLYSACCHARIDE- AND BETA-AMYLOID INDUCED MICROGLIAL INFLAMMATION IN VITRO AND IN VIVO THROUGH TLR4/JNK/NF-KB SIGNALING CASCADE Y.Z. Hong, K. Zhu, R.X. Shi, T.T. Wu, Z.Y. Zhu, <i>China</i>	368
152	DANHONG INJECTION PROTECTS THE BRAIN AGAINST ISCHEMIA-REPERFUSION INJURY S. Wang, H. Guo, L. Chai, B. Chuluun, X. Wang, H. Yang, L. Hu, <i>China</i>	934

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Pharmacology and Therapeutics (contd.)

Board No		Abstract No
153	THERAPEUTIC EFFECTS OF BRYOSTATIN-1 ADMINISTRATION ON ISCHEMIC STROKE IN AGED RATS J.D. Huber, Z. Tan, X. Li, R.C. Turner, C.L. Rosen, <i>USA</i>	627
154	EFFECT OF CURCUMIN ON LEARNING AND MEMORY AND THE EXPRESSION OF AB42 IN BRAIN OF TG2576 TRANSGENIC MICE J. Sun, Y. Li, <i>China</i>	1328
155	EFFECT OF CURCUMIN ON THE EXPRESSION OF SR-BI AND ABCA1 IN NEURONS OF HIPPOCAMPUS OF APPSWE/PS1DE9 DOUBLE TRANSGENIC MICE J. Sun, Y. Li, <i>China</i>	1326
156	LOSARTAN IMPROVES CEREBROVASCULAR FUNCTION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE OVEREXPRESSING AMYLOID-B AND TRANSFORMING GROWTH FACTOR-B1 P. Papadopoulos, X.-K. Tong, E. Hamel, <i>Canada</i>	622
157	COCAINE NEUROTOXICITY AND BEHAVIORAL DYSFUNCTIONS ARE EXACERBATED BY SIZE-DEPENDENT CERIUM OXIDE NANOPARTICLES IN RATS R. Patnaik, A. Sharma, D.F. Muresanu, H.S. Sharma, <i>India, Sweden, Romania</i>	69
158	ANGIOTENSIN TYPE-1 RECEPTOR BLOCKAGE WAS ASSOCIATED WITH BRAIN PROTECTION BUT NOT IN REPAIR AFTER CEREBRAL INFARCT IN EXPERIMENTAL ANIMAL MODEL B. Rodríguez-Frutos, M. Gutiérrez-Fernández, J. Ramos-Cejudo, B. Fuentes, E. Díez-Tejedor, <i>Spain</i>	531
159	THE OPTIMAL DIRECTIONS DEVELOPMENT OF TREATMENT EVOKED BY EXPERIMENTAL CHRONIC INFLAMMATION OF THE ANXIETY-RELATED AND DEPRESSIVE-RELATED BEHAVIORS Y.V. Sidorova, O.G. Obraztsova, D.V. Evdokimov, I.I. Abramets, <i>Ukraine</i>	183
160	ANGIOTENSIN RECEPTOR BLOCKER CANDESARTAN DIRECTLY BINDS TO MOLECULAR CHAPERONE HSP70 AND STIMULATES ITS PRODUCTION IN THE HIPPOCAMPAL CA1 NEURONS T. Sugawara, K. Kokubun, R. Ishida, K. Fujiwara, S. Yamamoto, H. Itoh, H. Kinouchi, K. Mizoi, <i>Japan</i>	1021

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Pharmacology and Therapeutics (contd.)

Board No		Abstract No
161	EDARAVONE SENSITIZES THROMBOLYSIS AND PROPHYLACTICALLY PROTECTS HYPOXIC-ISCHEMIC BRAIN INJURY Y.-Y. Sun, K. Abe, D.M. Lindquist, C.-Y. Kuan, <i>USA, Japan</i>	580
162	SIMVASTATIN RESTORED ENDOTHELIAL AND SMOOTH MUSCLE CELL FUNCTION AND REDUCED STRING VESSEL PATHOLOGY IN TRANSGENIC TRANSFORMING GROWTH FACTOR-B1 MICE X.-K. Tong, E. Hamel, <i>Canada</i>	620
163	EFFECTS OF RECOMBINANT ANNEXIN A2 COMBINED WITH LOW-DOSE TPA IN LONG-TERM NEUROLOGICAL OUTCOMES OF FOCAL EMBOLIC STROKE IN RATS X. Wang, X. Fan, Z. Yu, Z. Liao, E. Mandeville, N. Liu, J. Zhao, E.H. Lo, X. Wang, <i>USA, China</i>	1010
164	PROTECTIVE EFFECT OF ORAL LACTULOSE AGAINST CEREBRAL ISCHEMIA-REPERFUSION INJURY IN RATS X. Zhai, X. Chen, J.Z. Shi, Z.H. Ye, Z.M. Kang, X.J. Sun, <i>China</i>	726
165	NEUROMODULATORY PROPENSITY OF WITHANIA SOMNIFERA EXTRACTS AGAINST ROTENONE-INDUCED NEUROTOXICITY IN DROSOPHILA MELANOGASTER: IMPLICATIONS TO PARKINSON'S DISEASE M.J. Manjunath, D.R. Muralidhara, <i>India</i>	1379
166	THROMBOPOIETIN REDUCES BRAIN INJURY AND COGNITIVE IMPAIRMENT IN RODENT CEREBROVASCULAR DISEASE MODELS J. Zhou, H. Zhang, J. Li, J. Zhuang, C. Poon, D.M. Rosenbaum, F.C. Barone, <i>USA, China</i>	846
Preconditioning and Post-Conditioning		
167	SULFORAPHANE-INDUCED NEUROPROTECTION, THE ROLE OF CYSTINE TRANSPORT J. Xiang, N. Zhou, G. Alesi, R. Keep, <i>USA, China</i>	407
168	ISCHEMIC POST-CONDITIONING MAINTAINS BRAIN MITOCHONDRIAL FUNCTION AND CBF FOLLOWING FOCAL CEREBRAL ISCHEMIA IN RATS A. Livnat, E. Barbiro-Michaely, A. Mayevsky, <i>Israel</i>	1033

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Preconditioning and Post-Conditioning (contd.)

Board No		Abstract No
169	HYPEREXPRESSION OF ADPONECTIN IMPROVES LONG-TERM STROKE OUTCOME IN AGED MICE J. Miao, L. Shen, Y. Zhao, Y. Wang, G.-Y. Yang, <i>China</i>	1009
170	ROLE OF NUCLEAR ERYTHROID 2-RELATED FACTOR 2 IN ISCHEMIC PRECONDITIONING-INDUCED NEUROPROTECTION S. Narayanan, M. Perez-Pinzon, <i>USA</i>	1152
171	EPKC PRECONDITIONING REDUCES EXCITABILITY AND FIRING PROPERTIES OF CA1 HIPPOCAMPAL NEURONS J.T. Neumann, M.A. Perez-Pinzon, <i>USA</i>	1132
172	INVOLVEMENT OF SRC-KINASE ACTIVATION IN ISCHEMIC PRECONDITIONING AND POSTCONDITIONING INDUCED PROTECTION OF MOUSE BRAIN A.K. Rehni, T.G. Singh, <i>India</i>	375
173	INVOLVEMENT OF CYCLIC ADENOSINE DIPHOSPHORIBOSE RECEPTOR ACTIVATION IN ISCHEMIC PRECONDITIONING INDUCED PROTECTION IN MOUSE BRAIN A.K. Rehni, T.G. Singh, <i>India</i>	370
174	POTENTIAL ROLE OF INTERLEUKIN 1 B CONVERTING ENZYME IN ISCHEMIC PRECONDITIONING AND POSTCONDITIONING OF BRAIN IN MICE T.G. Singh, A.K. Rehni, <i>India</i>	487
175	INVOLVEMENT OF CCR-2 CHEMOKINE RECEPTOR ACTIVATION IN ISCHEMIC PRECONDITIONING AND POSTCONDITIONING OF BRAIN IN MICE T.G. Singh, A.K. Rehni, <i>India</i>	480
176	PRECONDITIONING WITH ENDOPLASMIC RETICULUM STRESS INCREASES RESISTANCE TO CEREBRAL ISCHEMIA/REPERFUSION INJURY X. Wu, Y. Luo, H. Zhao, C. Zhang, L. Min, <i>China</i>	132
177	HYPOXIC PRECONDITIONING ATTENUATES NEURONAL CELL DEATH BY PREVENTING MEK/ERK SIGNALING PATHWAYS ACTIVATION AFTER TRANSIENT GLOBAL CEREBRAL ISCHEMIA IN ADULT RATS E. Xu, L. Zhan, H. Yan, H. Zhou, W. Sun, Q. Hou, <i>China</i>	965

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Preconditioning and Post-Conditioning (contd.)

Board No		Abstract No
178	EFFECT AND SIGNIFICANCE OF MICROGLIA/MACROPHAGE PRE-ACTIVATION ON TLR2/NF-KB ACTIVITY AND INFLAMMATORY RESPONSE FOLLOWING RAT ISCHEMIC BRAIN INJURY Y. Yang, Z. Chen, H. Feng, G. Zhu, <i>China</i>	1096
179	DIFFERENT NEUROPROTECTIVE EFFECTS OF SEVOFLURANE POSTCONDITIONING IN THE NORMAL AND HYPERLIPIDEMIC MICE H. Yu, Z. Zuo, <i>USA, China</i>	944
180	HYPERLIPIDEMIA ATTENUATES THE NEUROPROTECTIVE EFFECT OF ISOFLURANE POSTCONDITIONING: ROLE OF CTMP-AKT-GSK-3B SIGNALING PATHWAY H. Yu, Z. Zuo, <i>USA, China</i>	943
181	HYPERBARIC OXYGEN PRECONDITIONING ATTENUATES HYPERGLYCEMIA-ENHANCED HEMORRHAGIC TRANSFORMATION BY INHIBITING MATRIX METALLOPROTEINASES IN FOCAL CEREBRAL ISCHEMIA IN RATS Y. Soejima, Q. Hu, P. Krafft, M. Fujii, J. Tang, J. Zhang, <i>USA</i>	831
182	INHIBITION OF AUTOPHAGY CONTRIBUTES TO NEUROPROTECTION IN ISCHEMIC POSTCONDITIONING PROCESS Y. Zhang, L. Gao, <i>China</i>	1158

Reperfusion

183	IS THE HYPERPERFUSION SYNDROME AFTER CAROTID ENDARTERECTOMY ABSCENT OR PREVENTABLE? S.H. Lee, K.H. Kim, C.-H. Lee, J.H. Ahn, Y.-J. Son, Y.S. Chung, <i>Republic of Korea</i>	508
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Stem Cells and Cell Therapy

184	ACUTE AND DELAYED POST-STROKE TREATMENT WITH HUMAN AMNION EPITHELIAL CELLS IMPROVES STROKE OUTCOME B.R.S. Broughton, K.W.E. Taylor, V.H. Brait, R. Lim, E.M. Wallace, G.R. Drummond, C.G. Sobey, <i>Australia</i>	651
185	IPS CELL TRANSPLANTATION INCREASES NEUROGENESIS AND ANGIOGENESIS AFTER NEONATAL ISCHEMIC STROKE M. Chau, S.P. Yu, L. Wei, <i>USA</i>	664

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Stem Cells and Cell Therapy (contd.)

Board No		Abstract No
186	CXCR7, A NOVEL RECEPTOR OF CXCL12, MEDIATES MIGRATION AND SIGNALING OF NEURAL PROGENITOR CELLS <i>IN VITRO</i> Q. Chen, Y. Li, A. Song, D. Xu, C. Tian, J. Zheng, <i>USA, China</i>	1209
187	SYSTEMIC IMMUNE THERAPY OF BONE MARROW DERIVED DC FOR THE BRAIN INJURY J. Han, X. Wang, Y. Tao, R. El-Kadri, J. Abou-Fadel, H. Dou, <i>USA</i>	1288
188	COMPARATION BETWEEN XENOGENIC AND ALLOGENIC ADIPOSE TISSUE MESENCHYMAL STEM CELLS IN TREATMENT OF ACUTE CEREBRAL INFARCT. CONCEPT PROOF IN RATS M. Gutiérrez-Fernández, B. Rodríguez-Frutos, J. Ramos-Cejudo, E. Díez-Tejedor, <i>Spain</i>	517
189	FUNCTIONAL CONTRIBUTION OF NEUROGENESIS AFTER FOCAL ISCHEMIA IN MICE K. Jin, X. Mao, L. Xie, F. Sun, D.A. Greenberg, <i>USA</i>	1114
190	THE OVEREXPRESSION OF ADC ENHANCED SURVIVAL RATE OF MSCS, POSSIBLY CONTRIBUTING TO THE IMPROVEMENT OF MOTOR ACTIVITY FOLLOWING SCI J.E. Lee, S.K. Seo, Y.M. Park, W. Yang, <i>Republic of Korea</i>	548
191	DIRECT-CURRENT ELECTRICAL FIELD GUIDES NEURONAL STEM/PROGENITOR CELL MIGRATION L. Li, M. Liao, Q. Wan, <i>China, USA</i>	1161
192	EXTERIOR MAGNETIC FORCE ENHANCES THE TREATMENT EFFECT OF SPIO-LABELED ENDOTHELIAL PROGENITOR CELLS IN MICE WITH TRANSIENT MIDDLE CEREBRAL ARTERY OCCLUSION Q. Li, G. Tang, C. Zhang, L. Xiong, X. He, P. Miao, Y. Wang, G.-Y. Yang, <i>China</i>	663
193	PROGRANULIN EXPRESSION IN NEURAL STEM CELLS AND THEIR DIFFERENTIATED CELL LINEAGES L. Luo, L. Lü, Y. Lu, B. Li, K. Guo, J. Xu, <i>China</i>	468
194	PLACENTA DERIVED STEM CELLS AMELIORATE CEREBRAL ISCHAEMIA-REPERFUSION INJURY IN MICE A.K. Rehni, T.G. Singh, <i>India</i>	469

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Stem Cells and Cell Therapy (contd.)

Board No		Abstract No
195	HOMING/MIGRATION OF BONE MESENCHYMAL STEM CELL TO RAT WALLERIAN DEGENERATED SCIATIC NERVE Z. Ren, Y. Wang, J. Peng, Q. Zhao, S. Lu, <i>China</i>	701
196	TREATMENT WITH NEURO-PEPTIDE MIXTURE CEREBROLYSIN IMPROVES SURVIVAL OF NEURAL STEM CELL GRAFTS IN APP TRANSGENIC MODEL OF ALZHEIMER DISEASE E. Rockenstein, K. Rockenstein, M. Mante, C. Inglis, A. Adame, P. Desplats, S. Winter, D. Meier, H. Moesler, E. Masliah, <i>USA, Austria</i>	1213
197	CEREBRAL ISCHEMIA AND MATRIX METALLOPROTEINASE-9 MODULATE THE ANGIOGENIC FUNCTION OF ENDOTHELIAL PROGENITOR CELLS A. Rosell, A. Morancho, M. Hernández-Guillamon, C. Boada, V. Barceló, D. Giralt, J. Montaner, <i>Spain</i>	223
198	COORDINATED DEVELOPMENT OF VOLTAGE-GATED NA⁺ AND K⁺ CURRENTS REGULATES FUNCTIONAL MATURATION OF FOREBRAIN NEURONS DERIVED FROM HUMAN IPS CELLS M. Song, O. Mohamad, D. Chen, L. Wei, S.P. Yu, <i>USA</i>	1144
199	CO-TRANSPLANTATION OF NEURAL AND VASCULAR PROGENITOR CELLS ENHANCES NEUROVASCULAR UNIT FORMATION AND LONG-TERM RECOVERY AFTER CEREBRAL ISCHEMIA IN RATS Y. Tang, J. Li, R. Tang, Y. Wang, W. Gao, G.-Y. Yang, <i>China</i>	456
200	NEURORESTORATIVE EFFECT OF URINARY BLADDER MATRIX-MEDIATED NEURAL STEM CELL TRANSPLANTATION FOLLOWING TRAUMATIC BRAIN INJURY IN RATS J. Wang, A. Liou, Z. Ren, L. Zhang, B. Brown, X. Cui, S. Badylak, Y. Cai, Y. Guan, R.K. Leak, J. Chen, X. Ji, L. Chen, <i>China, USA</i>	947
201	GENERATION OF NEURAL PROGENITOR-LIKE CELLS FROM HUMAN DERMAL FIBROBLASTS Y. Wang, C. Tian, K. Ma, J. Zheng, <i>USA</i>	1162
202	TRANSPLANTATION OF HYPOXIA-PRECONDITIONED IPS/ES CELLS COMBINED WITH PERIPHERAL WHISKER STIMULATION IMPROVED FUNCTIONAL RECOVERY AFTER ISCHEMIC STROKE IN NEONATAL RATS Z. Wei, K. Francis, O. Mohamad, S.P. Yu, L. Wei, <i>USA</i>	1232

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Stem Cells and Cell Therapy (contd.)

Board No		Abstract No
203	CXCL12 ACTIVATED INTERACTION OF CXCR4 AND CXCR7 IN STEM CELL SURVIVAL D. Xu, B. Zhu, Y. Zhang, J. Zheng, <i>China</i>	1201
204	LEVELS OF ENDOTHELIAL PROGENITOR CELLS IN THE HUMAN BRAIN ARTERIOVENOUS MALFORMATIONS OF DIFFERENT AGES AND SYMPTOMS T. Xu, J. Huang, G.-Y. Yang, W. Zhu, <i>China</i>	1090
205	DIRECT REPROGRAMMING FROM HUMAN FIBROBLASTS TO HUMAN NEURONAL (HIN) CELLS; A NOVEL METHOD PREPARING CELL RESOURCE FOR STROKE THERAPY T. Yamashita, A. Abeliovich, K. Abe, <i>Japan, USA</i>	22
206	HUMAN MESENCHYMAL STEM CELLS TRANSPLANTED INTO RATS WITH ISCHEMIC BRAIN INJURY MIGRATE TO NEUROGENIC ZONES WHERE THEY ACTIVATE NEURAL PROGENITORS K. Yarygin, V. Burunova, E. Cherkashova, L. Gubski, I. Kholodenko, <i>Russia</i>	425
207	THERAPEUTIC BENEFIT OF BONE MARROW-DERIVED ENDOTHELIAL PROGENITOR TRANSPLANTATION AFTER EXPERIMENTAL ANEURYSM EMBOLIZATION WITH COIL IN RATS S. Zhang, Q. An, X. Chen, J. Zhang, W. Zhu, G.-Y. Yang, <i>China</i>	1216

Vascular Cognitive Impairment/Dementia

208	NADPH OXIDASE 1, A NOVEL MOLECULAR SOURCE OF ROS IN HIPPOCAMPAL NEURONAL DEATH OF VASCULAR DEMENTIA D.-H. Choi, K.-H. Lee, J.-H. Kim, J.-H. Seo, J. Lee, <i>Republic of Korea</i>	179
209	PLASTICITY OF THE VISUAL SYSTEM IN HEMIANOPIC PATIENTS S. Chokron, C. Perez, C. Peyrin, C. Cavezian, M. Obadia, F. Héran, O. Gout, <i>France</i>	688
210	CHRONIC SUBPRESSIVE ANGIOTENSIN II IS DIRECTLY IMPLICATED IN COGNITIVE DYSFUNCTION, NEURODEGENERATION AND BETA-AMYLOIDES FORMATION S. Duchemin, E. Belanger, K. Monteiro-Sylva, H. Buck de Sousa, G. Ferland, H. Girouard, <i>Canada, Brazil</i>	788

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Vascular Cognitive Impairment/Dementia (contd.)

Board No		Abstract No
211	THE HISTOPATHOLOGICAL AND ULTRASTRUCTURAL CHANGES IN HIPPOCAMPUS OF RAT MODELS WITH VASCULAR DEMENTIA J. Sun, Y. Li, <i>China</i>	1327
212	CEREBRAL PERFUSION AND COGNITIVE FUNCTION IN POST-STROKE PATIENTS WITH HYPERTENSION S. Matsumoto, M. Shimodozono, K. Kawahira, <i>Japan</i>	1174
213	A ROLE OF CREB-CRTC SIGNALING IN NICOTINE-INDUCED NEUROPROTECTION T. Sasaki, K. Kitagawa, A. Watanabe, T. Yukami, N. Oyama, Y. Yagita, H. Takemori, H. Mochizuki, <i>Japan</i>	754
214	COMBINED HIGH CHOLESTEROL AND CEREBROVASCULAR PATHOLOGY INDUCE MEMORY DEFICITS AND WORSEN CEREBROVASCULAR REACTIVITY IN TRANSGENIC TRANSFORMING GROWTH FACTOR-B1 MICE X.-K. Tong, E. Hamel, <i>Canada</i>	625
215	EFFECT OF ANTIHYPERTENSIVE TREATMENT ON CEREBRAL BLOOD FLOW IN A MOUSE MODEL FOR ALZHEIMER'S DISEASE M. Wiesmann, C. Capone, V. Zerbi, L. Mellendijk, M.G. Olde Rikkert, A. Heerschap, A.J. Kiliaan, J.A. Claassen, <i>The Netherlands</i>	185
216	COGNITIVE DOMAIN DEFICITS IN PATIENTS WITH ANEURYSMAL SUBARACHNOID HEMORRHAGE: PROGNOSTIC SIGNIFICANCE AND SCREENING TOOL G.K.C. Wong, Cognitive Dysfunction after Aneurysmal Subarachnoid Hemorrhage Investigators, <i>Hong Kong S.A.R.</i>	1097
217	BRIEF SCREENING FOR MILD COGNITIVE IMPAIRMENT IN SUBCORTICAL ISCHEMIC VASCULAR DISEASE: A COMPARISON STUDY OF MOCA WITH MMSE Q. Xu, W.-W. Cao, J.-H. Mi, L. Yu, Y. Lin, Y.-S. Li, <i>China</i>	989
218	HYDROXYSAFIROR YELLOW A INHIBITS INFLAMMATION AND PROTECTS AGAINST AB1-42-INDUCED NEUROTOXICITY Z. Zhang, L. Qian, Y. Xu, <i>China</i>	541
219	DALESCONOLS B ACTIVATES AKT/GSK-3B/B-CATENIN SIGNALING AND ATTENUATES MEMORY DEFICITS IN AN ALZHEIMER MOUSE MODEL X. Zhu, S. Wang, H. Yang, J. Jin, Y. Xu, <i>China</i>	536

Thursday, May 23, 2013

08:00-17:30

Poster Area

Poster Session III:

Vascular Cognitive Impairment/Dementia (contd.)

Board No

Abstract No

- 220 **ENRICHED ENVIRONMENT HOUSING PREVENTS THE IMPAIRMENTS OF COGNITIVE FUNCTION AND MOTOR FUNCTION IN A MOUSE MODEL OF CADASIL DISEASE**
L.-R. Zhao, A. Fagan, B. Li, X.-Y. Liu, M. Gonzalez-Toledo, C. Piao, S. Zhang, *USA* 1061

White Matter Injuries

- 221 **ASPIRIN PROMOTE THE COGNITIVE FUNCTION RECOVERY IN WML RATS THROUGH ENHANCING NEURAL STEM CELLS TO OLIGODENDROCYTE DIFFERENTIATION**
J. Chen, *China* 1250
- 222 **NETRIN-1 PROMOTES OLIGODENDROGENESIS AFTER EXPERIMENTAL STROKE**
X. He, Y. Wang, Y. Li, Y. Lv, Y. Tang, X. Lin, G.-Y. Yang, *China* 1218
- 223 **COMPREHENSIVE ANALYSIS OF SELECTIVE WHITE MATTER INJURY OF THE RAT MODEL BY USING IMAGING MASS SPECTROMETRY AND CONVENTIONAL HISTOPATHOLOGY**
H. Ono, H. Imai, T. Hayasaka, S. Miyawaki, H. Horikawa, T. Ochi, A. Ito, H. Nakatomi, M. Setou, N. Saito, *Japan* 145
- 224 **BUMETANIDE ATTENUATES WHITE MATTER INJURY AND PROTECTS THE BLOOD-BRAIN-BARRIER IN A MOUSE MODEL OF TRAUMATIC BRAIN INJURY**
H. Pu, J. Zhang, G. Wang, X. Jiang, W. Zhang, D. Sun, J. Chen, Y. Gao, *China, USA* 354
- 225 **N-METHYL-D-ASPARTATE RECEPTOR-MEDIATED AXONAL INJURY IN ADULT CORPUS CALLOSUM**
J. Zhang, J. Liu, H.S. Fox, H. Xiong, *USA* 429

PET: Preclinical Imaging

- 226 **MMRI AND MPET ANALYZE REVEAL [¹⁸F]-FLT AS A PREDICTIVE MARKER IN DETECTION OF GLIOBLASTOMA RESPONSE TO TEMOZOLOMIDE COMBINED WITH BEVACIZUMAB**
A. Corroyer-Dulmont, E.A. Pérès, E. Petit, J.-S. Guillamo, N. Varoqueaux, S. Rousset, J. Toutain, D. Divoux, E.T. MacKenzie, J. Delmare, M. Ibazizène, M. Lecocq, A.H. Jacobs, L. Barré, M. Bernaudin, S. Valable, *France, Germany* 125



International Society for
Cerebral Blood Flow & Metabolism



Shanghai
BRAIN 2013



BRAINPET POSTER SESSION

TUESDAY - WEDNESDAY,
MAY 21-22, 2013





Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Data Acquisition and Analysis

Board No		Abstract No
P1	ACCURATE BRAIN PET/MR QUANTIFICATION USING TIME OF FLIGHT IN COMBINATION WITH MLAA IMAGE RECONSTRUCTION R. Boellaard, A.A. Lammertsma, <i>The Netherlands</i>	170
P2	IN VIVO QUANTIFICATION OF TRANSLOCATER PROTEIN (18KDA) BINDING USING [¹²³I] CLINDE SPECT IN HUMANS L. Feng, C. Svarer, G. Thomsen, R. de Nijs, V.A. Larsen, D. Adamsen, A. Dyssegaard, G.M. Knudsen, L.H. Pinborg, <i>Denmark</i>	1024
P3	SYSTEM DEVELOPMENT AND VALIDATION FOR QUANTITATIVE ASSESSMENT OF CBF AND CMRO₂ USING 3-DIMENSIONAL PET Y. Hori, T. Moriguchi, K. Koshino, S. Iguchi, A. Yamamoto, J. Enmi, H. Kawashima, T. Zeniya, K. Nakaya, A. Shimizu, T. Toku, N. Morita, H. Iida, <i>Japan</i>	136
P4	A SEMI-AUTOMATED CLASSIFICATION OF VASCULAR COMPONENTS IN MOUSE SOMATOSENSORY CORTEX FROM 3D MULTI-PHOTON LASER SCANNING MICROSCOPIC IMAGE H. Kawaguchi, H. Takuwa, Y. Tajima, J. Taniguchi, Y. Ikoma, C. Seki, K. Masamoto, I. Kanno, H. Ito, <i>Japan</i>	355
P5	VOI-BASED EVALUATION OF THE SPM5 SPATIAL NORMALIZATION METHOD FOR BRAIN PET STUDIES H. Kuwabara, H. Jung, D.F. Wong, <i>USA</i>	878
P6	FASTER DISSOCIATION OF CLOZAPINE FROM THE STRIATAL SPECIFIC BINDING SITES THAN HALOPERIDOL: PHARMACOKINETIC PET STUDIES IN HUMANS H.S. Park, B.S. Moon, N.H. Lim, B.C. Lee, S.E. Kim, <i>Republic of Korea</i>	379
P7	QUANTIFICATION OF [¹¹C]ABP688 BINDING IN THE HUMAN BRAIN USING CEREBELLUM AS REFERENCE REGION: INTERPRETATION AND LIMITATIONS M.S. Milella, L. Minuzzi, M. Leyton, C. Benkelfat, J.-P. Soucy, A. Kirlow, E. Schirrmacher, M. Angle, J. Verhaeghe, G. Massarweh, A. Reader, A. Alliaga, J.E. Peixoto Santos, M.-C. Guiot, E. Kobayashi, P. Rosa-Neto, <i>Canada</i>	902
P8	MOLECULAR IMAGING AND KINETIC ANALYSIS TOOLBOX (MIAKAT) G. Searle, R. Gunn, <i>UK</i>	752

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Data Acquisition and Analysis (contd.)

Board No		Abstract No
P9	GENERALIZATION AND OPTIMIZATION OF A POPULATION-BASED INPUT FUNCTION ESTIMATION APPROACH FOR QUANTIFICATION OF SPARSELY SAMPLED DYNAMIC FDG PET DATA S. Zhang, J. Zhang, R. Wang, Y. Zhou, <i>China, USA</i>	1065
P10	CHARACTERIZATION OF QUANTITATIVE APPROACHES IN [¹⁸F]AV-45 PET FOR B-AMYLOID IMAGING IN HIV INFECTION Y. Zhou, D.F. Wong, M. Lodge, W. Ye, J.C. McArthur, N. Sacktor, M. Mohamed, <i>USA</i>	1062
PET: Dementia and Neurological Disorders		
P11	IS 18F-FDG DYNAMIC PET ABLE TO POINT OUT POTENTIAL CHOROID PLEXUS ALTERATION IN ALZHEIMER'S DISEASE? B. Chaarani, J. Daouk, M. Rmeily-Haddad, R. Bouzerar, M.-E. Meyer, O. Baledent, <i>France</i>	780
P12	DIFFERENTIATION OF PARKINSON'S DISEASE SUBTYPES USING MULTI-TRACER POSITRON EMISSION TOMOGRAPHY (PET) C. Eggers, F. Schwartz, G.R. Fink, L. Timmermann, <i>Germany</i>	1292
P13	ROLE OF [¹⁸F]FLUOROETHYL-L-TYROSINE PET AS DIAGNOSTIC TOOL FOR MALIGNANT TRANSFORMATION IN PATIENTS WITH LOW-GRADE GLIOMA N. Galldiks, G. Stoffels, M.I. Ruge, M. Rapp, M. Sabel, N.J. Shah, G.R. Fink, H.H. Coenen, K.-J. Langen, <i>Germany</i>	477
P14	CORRELATION OF CSF TOTAL TAU AND AB42 LEVELS WITH FDG PET METABOLISM IN PATIENTS WITH DEMENTIA V. Garibotto, A. Baskin, D. Zekry, G. Allali, H. Zaidi, O. Ratib, P. Burkhard, F. Assal, <i>Switzerland</i>	702
P15	QUANTITATIVE ANALYSIS OF AMYLOID DEPOSITION IN ALZHEIMER DISEASE USING PET AND [C-11]AZD2184 H. Ito, H. Shimada, H. Shinotoh, H. Takano, F. Kodaka, H. Fujiwara, Y. Kimura, Y. Ikoma, C. Seki, M. Higuchi, T. Fukumura, É. Lindström Böö, L. Farde, T. Suhara, <i>Japan, Sweden</i>	268

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Dementia and Neurological Disorders (contd.)

Board No		Abstract No
P16	BRAIN ACETATE METABOLISM IN PATIENTS WITH LIVER CIRRHOSIS AND HEPATIC ENCEPHALOPATHY P. Iversen, K. Mouridsen, M.B. Hansen, M. Sørensen, L.K. Bak, H. Waagepetersen, A. Schousboe, P. Ott, H. Vilstrup, S. Keiding, A. Gjedde , <i>Denmark</i>	1244
P17	A PET STUDY OF STRIATAL DAT BINDING AND PARKINSONISM-RELATED METABOLIC BRAIN NETWORK ACTIVITY IN REM BEHAVIOR DISORDER S. Peng, Y. Ma, F. Holtbernd, C. Tang, V. Dhawan , D. Eidelberg, <i>USA</i>	588
P18	IMPACT OF PARTIAL VOLUME CORRECTION ON THE RELATIONSHIP BETWEEN PIB RETENTION AND POST-MORTEM MEASURES OF AMYLOID LOAD J.C. Price , D.S. Minhas, C.M. Laymon, E.E. Abrahamson, L.A. Weissfeld, O.L. Lopez, M.L. Debnath, L. Shao, R.L. Hamilton, C.R. Becker, C.A. Mathis, W.E. Klunk, M.D. Ikonovic, <i>USA</i>	1321
P19	EFFECT OF MANASAMITRA VATAKAM(MMV) AGAINST AL INDUCED OXIDATIVE STRESSED NEURONAL CELL DEATH S.V. Thirunavukkarasu , K. Thyalan, <i>India</i>	1206
P20	A PRELIMINARY STUDY OF AMYLOID AND FDG-PET IN THE DIFFERENTIAL DIAGNOSIS OF ALZHEIMER'S DISEASE AND FRONTOTEMPORAL LOBAR DEGENERATION Y. WANG , S. GAO, L. CAI, Z. SHI, Y. LI, Y. JI, <i>China</i>	215

PET: Neuropsychiatric Disorders

P21	<i>IN-VIVO</i> SEROTONIN-TRANSPORTER (SERT) AVAILABILITY IN OBESITY A. Bresch , J. Luthardt, M. Rullmann, F. Zientek, G. Reissig, K. Arelin, D. Lobsien, A. Hilbert, P.M. Meyer, S. Tiepolt, C. Schinke, G.A. Becker, M. Patt, A. Seese, M. Blüher, M. Fasshauer, O. Sabri, S. Hesse, <i>Germany</i>	744
P22	REWARD RESPONSIVENESS AND <i>IN-VIVO</i> SEROTONIN-TRANSPORTER AVAILABILITY IN OBESITY S. Hesse, A. Hilbert, S. Baldofski, A. Bresch , J. Luthardt, M. Rullmann, F. Zientek, G. Reissig, K. Arelin, D. Lobsien, C. Schinke, A. Rudolph, G.A. Becker, M. Patt, A. Seese, P.M. Meyer, S. Tiepolt, M. Blüher, M. Fasshauer, O. Sabri, <i>Germany</i>	751

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Neuropsychiatric Disorders (contd.)

Board No		Abstract No
P23	DECREASED ALPHA2 ADRENOCEPTOR VOLUME OF DISTRIBUTION AND INCREASED DOPAMINE D1 RECEPTOR BINDING POTENTIAL IN THE FLINDERS SENSITIVE LINE DEPRESSION MODEL P. Iversen, G. Wegener, S. Jakobsen, J.-A. Phan, M. Simonsen, D. Doudet, A.M. Landau , <i>Denmark, Canada</i>	1308
P24	DIFFERENTIAL REGULATION OF LOCOMOTOR ACTIVITY TO COCAINE IN MICE LACKING ACID-SENSING ION CHANNEL 1A AND 2 Q. Jiang , X. Chu, <i>USA</i>	1038
P25	PET IMAGING OF SUGAR ADDICTION IN MINIPIGS: EFFECTS ON THE DOPAMINE D2/3 RECEPTOR A.M. Landau , A. Møller, M. Winterdahl, S. Jakobsen, A.K.O. Alstrup, A.C. Schacht, D. Bender, J. Scheel-Krüger, M.L. Kringelbach, <i>Denmark, UK</i>	720
P26	REGIONAL OCCUPANCY DIFFERENCES OF THE SEROTONIN TRANSPORTER INVESTIGATED BY BRAIN PET R. Lanzenberger , G.S. Kranz, P. Baldinger, M. Savli, D. Haeusler, M. Spies, A. Hahn, W. Wadsak, M. Mitterhauser, S. Kasper, <i>Austria</i>	851
P27	THE COME BACK OF FUNCTIONAL DYNAMIC LESION IN HYSTERIA: FUNCTIONAL NEUROIMAGING NARROWS THE GAP BETWEEN FUNCTIONAL AND ORGANIC AMNESIA H.J. Markowitsch , A. Staniloiu, <i>Germany</i>	884
P28	EFFECTS OF THE FRAGILE X MUTATION ON RATES OF CEREBRAL PROTEIN SYNTHESIS IN PATIENTS AND MICE STUDIED UNDER PROPOFOL-SEDATION M. QIN , K.C. Schmidt, A. Zemetkin, S. Bishu, L. Horowitz, T. Burlin, Z. Xia, T. Huang, Z. Quezado, C.B. Smith, <i>USA</i>	657
P29	EFFECT OF CHRONIC HALOPERIDOL DOSING ON RAT STRIATAL PHOSPHODIESTERASE 10A LEVELS AS MEASURED BY [¹¹C]MP-10 S.P. Tang , S. Natesan, S. Ashworth, S. Kealey, C. Salinas, R.N. Gunn, E.A. Rabiner, S. Kapur, <i>UK</i>	570

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Neuropsychiatric Disorders (contd.)

Board No		Abstract No
P30	INTERNET GAME OVERUSE DECREASE STRIATAL DOPAMINE D₂ RECEPTORS M. Tian, Q. Chen, Y. Zhang, F. Du, H. Hou, H. Zhang , <i>China</i>	1258
P31	METABOLIC IMAGING OF DEEP BRAIN STIMULATION IN ANOREXIA NERVOSA: AN ¹⁸F-FDG PET/CT STUDY H.-W. Zhang , C.-T. Zuo, B.-M. Sun, J. Zhao, Y.-H. Guan, <i>China</i>	122
PET: Neurotransmitter System Evaluation		
P32	AGE-RELATED CHANGES OF DOPAMINE RECEPTOR-TRANSPORTER RELATIONSHIPS IN HEALTHY ADULTS K. Chun , H. Kuwabara, M. McCaul, C. Earley, R. Allen, G. Wand, D. Wong, <i>USA</i>	859
P33	DOSE RESPONSE IN THE BINDING OF 11C-YOHIMBINE TO ALPHA 2 ADRENERGIC RECEPTORS IN RESPONSE TO INCREASING DOSES OF AMPHETAMINE D. Doudet , S. Jakobsen, A.K.O. Olsen, A.M. Landau, <i>Denmark, Canada</i>	597
P34	OCCUPANCY OF DOPAMINE TRANSPORTER AND EFFECT OF DOPAMINE REUPTAKE INHIBITION BY MAZINDOL IN LIVING HUMAN BRAIN Y. Kimura , H. Ito, J. Maeda, M. Yamada, H. Fujiwara, Y. Eguchi-Suga, C. Seki, F. Kodaka, K. Takahata, Y. Ikoma, H. Takano, T. Minamimoto, M. Higuchi, T. Suhara, <i>Japan</i>	707
P35	SEROTONIN TRANSPORTER ASYMMETRY IN FEMALES AND MALES INVESTIGATED BY PET G.S. Kranz , A. Hahn, D. Haeusler, C. Philippe, U. Kaufmann, W. Wadsak, M. Spies, M. Mitterhauser, S. Kasper, R. Lanzenberger, <i>Austria</i>	849
P36	LINEAR CORRELATION BETWEEN DOPAMINE STORAGE IN DORSAL STRIATUM AND SENSATION-SEEKING Y. Kumakura , A. Moeller, D. Doudet, D. Bender, J. Linnet, A. Gjedde, <i>Denmark</i>	1236

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Neurotransmitter System Evaluation (contd.)

Board No

Abstract No

- P37 **A POSITIVE CORRELATION BETWEEN THE POTENCY OF THE NIGROSTRIATAL DOPAMINERGIC PATHWAY AND RECEPTOR DENSITY MEASURED WITH [¹¹C]PHNO PET**
A.C. Tziortzi, D. Erritzoe, R. Menke, E. Rabiner, M. Jenkinson, R.N. Gunn, *UK* 572
- P38 **MULTITRACER PET IMAGING REVEALS DISCREPANCY BETWEEN CHANGES IN PRE AND POST-SYNAPTIC MARKERS OF DOPAMINERGIC DEAFFERENTATION IN PARKINSONIAN NON-HUMAN PRIMATES**
N. Van Camp, R. Aron Badin, K. Binley, M. Guillemier, Y. Lad, D. Houitte, F. Dollé, C. Lemaire, B. Kuhnast, Y. Bramoullé, M. Kyri, S. Palfi, P. Hantraye, *France, UK, Belgium* 496
- P39 **QUANTIFICATION OF THE HUMAN BRAIN PDE4 OCCUPANCY BY GSK356278: A [¹¹C]-(R)-ROLIPRAM PET STUDY**
J. van der Aart, C. Salinas, R. Dimber, S. Pampols-Maso, A.A. Weekes, A. Kamalakaran, J. Tonkyn, F.A. Gray, R.N. Gunn, E.A. Rabiner, *UK* 575
- P40 **IMPACT OF ACUTE METHYLPHENIDATE CHALLENGE ON PRESYNAPTIC DOPAMINE METABOLISM: AN [18F]FDOPA PET STUDY**
I. Schabram, S. Prinz, K. Henkel, C.A. Dietrich, M. Felzen, O. Winz, S. Mohammadkhani Shali, G. Gründer, F.M. Mottaghy, I. Vernaleken, *Germany* 1093

PET: Novel Modeling and Methods

- P41 **KINETIC ANALYSIS OF ¹⁸F-FDG EXCHANGES ACROSS THE BLOOD-CSF BARRIER**
B. Chaarani, R. Bouzerar, J. Daouk, M.-E. Meyer, O. Baledent, *France* 871
- P42 **INTRA-VENTRICULAR STRUCTURES SEGMENTATION WITH 18F-FDG DYNAMIC PET IMAGES**
B. Chaarani, J. Daouk, M. Rmeily-Haddad, R. Bouzerar, M.-E. Meyer, O. Baledent, *France* 838

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Novel Modeling and Methods (contd.)

Board No		Abstract No
P43	MINIMUM CEREBRAL BLOOD TRANSIT TIME MEASUREMENT WITH DYNAMIC ^{18}F-FDG PET: A NOVEL APPROACH FOR ALZHEIMER DISEASE J. Daouk, B. Chaarani , J. Benathan-Tordjman, J. Mallet, J. Zmudka, R. Bouzerar, M.-E. Meyer, O. Balédent, <i>France</i>	285
P44	CORRECTION OF PARTIAL-VOLUME EFFECT IN [^{18}F]FDG BRAIN STUDIES USING COREGISTERED MR VOLUMES: VOXEL BASED ANALYSIS OF SUBCORTICAL WHITE MATTER UPTAKE C. Coello, F. Willoch, P. Selnes, T. Hjørnevik , T. Fladby, A. Skretting, <i>Norway</i>	384
P45	QUANTITATIVE RELATIONSHIP BETWEEN CEREBRAL METABOLIC RATE AND NEURAL AND SYNAPTIC ACTIVITIES: APPLICATION TO SYNAPTOGENESIS J. Karbowski , <i>Poland</i>	769
P46	A NEW METHOD TO ESTIMATE RADIOMETABOLITE PASSING THE BBB USING THE KINETIC COMPARTMENT ANALYSIS I. Odano , A. Varrone, R. Nakao, C. Halldin, L. Farde, <i>Sweden, Japan</i>	527
P47	SIMULTANEOUS FITTING OF METABOLITE DATA ACROSS SUBJECTS R.T. Ogden , S. Wu, J.J. Mann, R.V. Parsey, <i>USA</i>	1210
P48	COMPARISON BETWEEN HYPR-LR-FC AND HYPR-LR-MC ON DETECTION OF SMOKING-INDUCED DOPAMINE RELEASE IN [^{11}C]RACLOPRIDE PET STUDIES OF SMOKING AND CONTROL S. Wang , S.J. Kim, J.M. Sullivan, J.D. Gallezot, K.P. Cosgrove, E.D. Morris, <i>USA</i>	165
P49	INVESTIGATING THE DETECTABILITY OF SMALL D2 RECEPTOR DENSITY VARIATIONS ON B'MAX PARAMETRIC MAPPING WITH THE PARTIAL SATURATION APPROACH C. Wimberley , A. Reilhac, F. Boisson, K. Fischer, M.C. Gregoire, <i>Australia, Germany</i>	1157
P50	INCREASED PDRP EXPRESSION AND DECREASED STRIATAL DAT BINDING IN PATIENTS WITH IDIOPATHIC RAPID-EYE-MOVEMENT SLEEP BEHAVIOR DISORDER P. Wu , Y. Ma, C. Zuo, S. Peng, H. Yu, J. Wang, <i>China, USA</i>	356

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Novel Modeling and Methods (contd.)

Board No

Abstract No

- P51 **RESTING STATE METABOLIC CONNECTIVITY AS A MARKER OF HIGHER ORDER COGNITIVE FUNCTIONS: AN 18F-FDG-PET STUDY IN HEALTHY YOUNG ADULTS**
I. Yakushev, M. Baydogan, J. Li, J. Dukart, F. Fischer,
M. Schreckenberger, A. Fellgiebel, *Germany, USA, Switzerland* 224

PET: Novel Radiotracers

- P52 **SYNTHESIS OF [¹¹C]CIMBI-772 AND [¹¹C]CIMBI-775, TWO POTENTIAL 5-HT₇ PET-LIGANDS**
V.L. Andersen, M.M. Herth, H.D. Hansen, J.L. Kristensen,
G.M. Knudsen, *Denmark* 1058
- P53 **HUMAN ESTROGEN SYNTHASE (AROMATASE) AVAILABILITY IS HIGHEST IN THE MALE BRAIN: PET BIODISTRIBUTION STUDIES WITH [¹¹C]VOROZOLE**
A. Biegón, D. Pareto, D. Alexoff, B. Hubbard, S. Kim, J. Logan,
G.-J. Wang, J. Fowler, *USA, Spain* 458
- P54 **IMAGING OF A7 NICOTINIC ACETYLCHOLINE RECEPTORS: A CHALLENGE FOR PET RADIOTRACER DEVELOPMENT**
P. Brust, S. Fischer, S. Rötering, M. Scheunemann, A. Hiller,
B. Wenzel, C.K. Donat, D. Peters, J. Steinbach, W. Deuther-Conrad,
Germany, Sweden, Denmark 71
- P55 **THE (R)-(+)- AND (S)-(-)-ENANTIOMERS OF [¹⁸F]FLUSPIDINE HAVE DIFFERENT POTENTIAL FOR BRAIN IMAGING OF Σ₁ RECEPTORS**
P. Brust, W. Deuther-Conrad, M. Patt, C.K. Donat, G. Becker,
S. Stittsworth, A. Maisonial, B. Habermann, K. Holl, U. Funke,
S. Fischer, D. Schepmann, A. Hiller, B. Wenzel, S. Hesse, S.Z. Lever,
J. Steinbach, O. Sabri, B. Wünsch, *Germany, USA* 36
- P56 **INHIBITION OF P-GLYCOPROTEIN WITH TARIQUIDAR INCREASE THE BRAIN UPTAKE OF [¹⁸F]MEFWAY**
J.Y. Choi, M. Lee, Y. Seo, T.J. Jeon, B.S. Kim, T.H. Choi, Y.H. Ryu,
Republic of Korea 484
- P57 **CIS-4-¹⁸F-FLUORO-D-PROLINE DETECTS SECONDARY THALAMIC AND HIPPOCAMPAL DEGENERATION INDUCED BY RAT GLIOMA**
S. Geisler, A. Willuweit, M. Schroeter, K. Zilles, K. Hamacher,
N. Galldiks, N.J. Shah, H.H. Coenen, K.-J. Langen, *Germany* 390

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Novel Radiotracers (contd.)

Board No		Abstract No
P58	¹²⁴I-CLR1404 PET/CT IN HIGH GRADE GLIOMAS L.T. Hall, S.B. Perlman, C. Jaskowiak, J.S. Kuo, J. Weichert, <i>USA</i>	811
P59	IMAGING OF CEREBRAL 5-HT₇ RECEPTORS WITH [¹¹C]CIMBI-772 AND [¹¹C]CIMBI-775 H.D. Hansen, M.M. Herth, V.L. Andersen, A. Ettrup, L. Szabolcs, A. Dyssegaard, J.L. Kristensen, G.M. Knudsen, <i>Denmark</i>	1254
P60	A NOVEL RADIOTRACER FOR <i>IN VITRO</i> AND <i>IN VIVO</i> VISUALIZATION OF BACE1 DISTRIBUTION IN THE RODENT AND BABOON BRAIN M. Honer, L. Gobbi, A. Polara, H. Kuwabara, H. Jacobsen, T. Hartung, H. Loetscher, D. Esterhazy, M. Stoffel, R. Dannals, D.F. Wong, E. Borroni, <i>Switzerland, USA</i>	392
P61	PET IMAGING OF TSPO USING [¹⁸F]DPA-714 IN NORMAL AND EXCITOTOXIC-STRIATAL-LESIONED PRIMATE S. Lavisse, K. Inoue, C. Jan, M.-A. Peyronneau, L. Rbah-Vidal, R. Aron Badin, S. Goutal, F. Petit, M. Guillermier, N. Van Camp, F. Dollé, P. Remy, P. Hantraye, <i>France, Japan</i>	116
P62	SYNTHESIS OF [¹⁸F]FLUOROMETHYL-PBR28 AND ITS BIOLOGICAL EVALUATION AS A NOVEL RADIOTRACER FOR PET IMAGING OF NEUROINFLAMMATION B.C. Lee, B.S. Moon, J.H. Jung, Y.W. Lee, N.H. Lim, H.-Y. Lee, S.E. Kim, <i>Republic of Korea</i>	682
P63	CHARACTERIZATION OF THE PDE10A PET RADIOLIGAND, [¹¹C]-773 IN NONHUMAN PRIMATE, KO MOUSE AND AUTORADIOGRAPHY A. Takano, V. Stepanov, B. Gulyás, R. Nakao, N. Amini, H. Kimura, T. Taniguchi, S. Miura, C. Halldin, <i>Sweden, Japan</i>	369
P64	PET BRAIN IMAGING OF NEUROPEPTIDE Y2 RECEPTORS USING N-[¹¹C]METHYL-JNJ-31020028 IN PIGS M. Winterdahl, H. Audrain, A. Landau, D. Smith, P. Bonaventure, J. Shoblock, N. Carruthers, D. Swanson, D. Bender, <i>Denmark, USA</i>	1104

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Preclinical Imaging

Board No		Abstract No
P65	PROGRESSIVE LOSS OF STRIATAL DOPAMINE TERMINALS IN MPTP PARKINSONIAN NON-HUMAN PRIMATES USING VESICULAR MONOAMINE TRANSPORTER TYPE 2 PET IMAGING F. Yue, Y. Liu, R. Tang, L. Zhu, P. Chan, <i>China</i>	1246
P66	SUPERVISED CLUSTERING FOR DETERMINING A REFERENCE REGION FOR [¹¹C]PK11195 PET: ADAPTATION TO RAT PET STUDIES N. Costes, C. Blanc, C. Bouillot, J. Yankam Njiwa, R. Bolbos, F. Chauveau, D. Le Bars, F. Turkheimer, H. Alexander, <i>France, UK</i>	1121
P67	CORRECTING FOR ACCURATELY MEASURED GLUCOSE LEVELS IMPROVES THE ROBUSTNESS OF PET RAT BRAIN IMAGE QUANTIFICATION IN LONGITUDINAL EXPERIMENTS S. Deleyme, J. Verhaeghe, T. Wyckhuys, L. Wyffels, S. Dedeurwaerdere, S. Stroobants, S. Staelens, <i>Belgium</i>	755
P68	PET IMAGING OF ORGANIC CATION TRANSPORTERS IN RAT AND PIG BRAIN WITH NOVEL CARBON-11 LABELED BIGUANIDES S. Jakobsen, N. Jessen, J. Frøkiær, <i>Denmark</i>	836
P69	THE INDUCTION OF CYCLOLOXYGENASE-2(COX-2) EXPRESSION RESPONDING TO ISCHEMIC NEURONAL INJURY AND PET IMAGING WITH TWO RADIO-LABELED FIRST-GENERATION COX-2 SELECTIVE INHIBITORS B. Ji, M.-R. Zhang, H. Onoe, H. Kaneko, K. Kumata, M. Shukuri, C. Seki, M. Ono, M. Tokunaga, T. Minamihisamatsu, M. Higuchi, T. Suhara, <i>Japan</i>	533
P70	CEREBRAL GLUCOSE METABOLISM WITH THERAPEUTIC HYPOTHERMIA AFTER CARDIAC ARREST G. Zhen, C. Endres, X. Jia, <i>USA</i>	1311
P71	FUNCTION BRAIN IMAGING AFTER ACTIVATION OF CENTRAL VESTIBULAR SYSTEM USING 18F- FDG PET SCAN M.S. Kim, R.G. Kim, D. Kim, H.-I. Kim, <i>Republic of Korea</i>	749
P72	DOWN-REGULATION OF THE POST-SYNAPTIC SEROTONIN 1A RECEPTORS IN THE HEMI-PARKINSONIAN RAT MODEL M. Lee, J.Y. Choi, Y. Seo, W.G. Cho, T.J. Jeon, B.S. Kim, T.H. Choi, Y.H. Ryu, <i>Republic of Korea</i>	476

Tuesday - Wednesday, May 21-22, 2013

08:00-19:30

Poster Area

Brain PET Posters:

PET: Preclinical Imaging (contd.)

Board No		Abstract No
P73	SPECT IMAGING OF THE SEROTONERGIC SYSTEM IN WILD TYPE AND MDR1A KNOCKOUT RATS N. Dumas, M. Moulin-Sallanon, Y. Charnay, P. Millet , <i>Switzerland, France</i>	772
P74	THE ACCURACY OF MEASUREMENT OF SMALL RADIOACTIVITY CONCENTRATION BY A WELL COUNTER T. Morita , T. Watabe, H. Watabe, Y. Kanai, K. Matsunaga, S. Watanabe, M. Ishibashi, K. Isohashi, H. Kato, M. Tatsumi, E. Shimosegawa, J. Hatazawa, <i>Japan</i>	277
P75	EVALUATION OF 2-¹⁸F-FLUOROACETATE KINETICS IN MOUSE AND RAT MODELS OF CEREBRAL ISCHEMIA-HYPOXIA Y. Ouyang , J.N. Tinianow, S.R. Cherry, J. Marik, <i>USA</i>	163
P76	DIFFERENTIAL AMPHETAMINE AND LIGAND CONCENTRATION INHIBITION OF ¹¹C-YOHIMBINE BINDING IN BRAIN: EFFECT OF PLASMA PROTEIN BINDING DISPLACEMENT J.-A. Phan , A.M. Landau, A. Nahimi, S. Jakobsen, A. Gjedde, <i>Denmark, USA</i>	764
P77	QUANTITATIVE ANALYSIS OF THE ADENOSINE A_{2A} RECEPTOR LIGAND [¹¹C]SCH442416 IN THE RODENT BRAIN L. Wells , C. Salinas, S.P. Tang, H. Chong, N. Keat, W. Hallett, R.N. Gunn, E.A. Rabiner, <i>UK</i>	825
PET: Other		
P78	LONG-RANGE PLASTICITY BETWEEN INTACT HEMISPHERES AFTER CONTRALATERAL CERVICAL NERVE TRANSFER IN HUMAN X.-Y. Hua , C.-T. Zuo, W.-D. Xu, <i>China</i>	937
P79	AGE DECLINE IN THE SUBCORTICAL 5-HT₆ RECEPTOR AS IMAGED IN MALE VOLUNTEERS D. Matuskey , E.A. Park, B. Planeta, N. Nabulsi, S.-F. Lin, J. Ropchan, S. Najafzadeh, I. Esterlis, W. Williams, D.C. D'Souza, Y. Huang, E.D. Morris, R.E. Carson, <i>USA</i>	860



International Society for
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BRAIN 2013



INDEX





A

Aamand, R.	66	Allali, G.	138
Abbraccio, M.P.	41	Allan, S.	16, 113
Abe, K.	93, 100, 101, 102, 119, 129, 134	Allan, S.M.	73, 121
Abe, T.	27	Allen, R.	141
Abeliovich, A.	134	Alliaga, A.	137
Abou-Fadel, J.	132	Allom, R.	87
Abrahamson, E.E.	139	Almaguer Melián, W.	117
Abramets, I.I.	118, 128	Almdahl, T.	28
Acompanado, T.	96	Alperin, N.	66
Adair, J.C.	27	Al-Shehri, A.	54
Adamantidis, A.	43	Alstrup, A.K.O.	31, 140
Adame, A.	133	Altay, O.	65
Adami, A.	55	Altenhöfer, S.	33
Adams, H.	7	Álvarez, Á.	75
Adamsen, D.	137	Ambikar, D.B.	118
Adeoye, O.O.	74	Amini, N.	12, 145
Agrawal, M.	100	Amoruso, E.	62
Aguila, Ruiz, A.	117	Amthauer, H.	84
Aguilar, Z.P.	122	An, C.R.	125
Ahadi, G.	86	An, H.	107
Ahmad, A.	95	An, Q.	51, 134
Ahmadiani, A.	118	An, Y.-L.	92
Ahmed, N.	115, 117	Anand, R.	127
Ahmed, T.	48	Ander, B.P.	51, 63, 98
Ahn, J.H.	58, 131	Andersen, A.S.	28
Ahnstedt, H.	95	Andersen, V.L.	144, 145
Ai, L.	86	Andrews, D.W.	59
Aigbirhio, F.I.	13, 86	Andrews, Z.	100
Ajao, D.O.	42	Angelis, G.	12
Akamatsu, Y.	66	Angenstein, F.	84
Akle, N.	70	Angle, M.	137
Akture, E.	74	Anrather, J.	14
Al Shehri, A.	54	Anthony, D.	53, 113, 114
Al-Ayadhi, L.Y.	51	Anthony, D.C.	52
Alesi, G.	129	Antoni, G.	53
Alessandri, B.	62, 81	Antonic, A.	118
Alexander, H.	146	Antuono, P.G.	81
Alexandrova, K.V.	120	Anwander, A.	90
Alexoff, D.	144	Aoki, I.	31
Alger, J.R.	86	Apostolova, L.	91
Ali, K.	70	Applegate, R.	78
Aliaga, A.	31	Applegate, R.L.	125
Aliaghaei, A.	118	Arai, H.	88
Alkhraisheh, A.	85, 116	Arai, K.	72, 77
		Araki, N.	66, 124
		Arelin, K.	139

Armstrong, K.	70	Balbi, M.	79, 118
Arnold, G.J.	33	Baldinger, P.	140
Aron Badin, R.	25, 142, 145	Baldofski, S.	139
Aronowski, J.	39, 61	Baledent, O.	138, 142, 143
Arsava, E.M.	105	Balkaya, M.	107
Arumugam, T.V.	96, 120	Ballesteros, I.	121
Asai, T.	66	Bandaru, S.C.R.	125
Asano, E.	15	Banerjee, A.	25
Asano, Y.	66	Bang-Berthelsen, C.H.	61
Ashwal, S.	55	Bani, S.	115
Ashworth, S.	140	Banks, B.	2
Asif, A.R.	115, 117	Banks, W.A.	24
Asmaro, K.	95	Barandov, A.	87
Assal, F.	138	Barbiro-Michaely, E.	69, 129
Atanes, T.	111	Barceló, V.	133
Atkins, G.B.	105	Bari, F.	80, 125
Attwell, D.	43	Baron, J.C.	4, 7, 13, 30, 48
Attye, A.	68	Barone, F.C.	129
Audrain, H.	145	Barré, L.	85, 136
Ay, H.	105	Barresi, S.	118
Ayata, C.	97, 103, 107, 126	Barrett, D.A.	54
Azzouz, M.	126	Bashar, R.	12

B

Baandrup, A.O.	37	Bastin, K.	47
Baare, W.F.	28	Bauer, A.	25, 34
Baba, A.	83	Bauer, R.	42
Babcock, G.	75	Baumann, J.	126
Back, D.B.	46	Baumann, J.B.	32
Backes, H.	14, 67, 95, 107	Baydogan, M.	144
Badaut, J.	35, 42, 55	Bazan, N.G.	21
Baden, A.	50	Bazin, P.-L.	90
Badr, A.	70, 80, 82	Beard, D.	102
Badylak, S.	133	Beard, D.J.	95
Baek, J.U.	110	Beaufort, N.	110
Baer, E.	74, 75	Bec, J.	12
Bagci, A.	66	Beck, E.M.	12
Bai, F.	13, 86	Becker, C.R.	139
Bai, L.	94	Becker, G.	144
Bai, X.	12	Becker, G.A.	139
Bai, Y.-H.	49	Bédard, M.-A.	31
Bainbridge, A.	74, 75	Bedfert, C.	97
Bajbouj, M.	89	Begum, G.	78
Bak, L.K.	139	Behar, K.	19
Balasubramani, M.	101	Belanger, E.	134

Belayev, L.	21	Bolbos, R.	146
Belenichev, I.	123	Bolevich, S.	72, 116
Belenichev, I.F.	118, 120, 121	Boli, Z.	45
Belenicheva, O.I.	120	Boltze, J.	23, 88, 95
Belgacem, M.	87	Bonaventure, P.	145
Beltran, C.	112	Bonvento, G.	12, 69, 114
Ben, H.	60	Boorman, L.	125
Ben Haim, L.	12, 82	Boron, W.F.	75
Benathan-Tordjman, J.	143	Borroni, B.	85
Bender, D.	140, 141, 145	Borroni, E.	145
Benkelfat, C.	137	Bosch, Bayard, J.	117
Bennett, M.R.	65	Bosetti, F.	53
Bennett, M.V.L.	111	Bouillot, C.	146
Benzing, T.L.S.	15	Boutin, H.	121
Beray-Berthat, V.	97	Bouts, M.	92
Berdichevsky, Y.	94	Bouzerar, R.	138, 142, 143
Bere, Z.	80	Boyko, M.	47, 61
Bernardi, B.	118	Brait, V.H.	99, 120, 131
Bernaudin, M.	85, 102, 103, 136	Bramoullé, Y.	142
Bertini, E.S.	118	Braun, H.	47
Berwick, J.	125, 126	Braun, K.P.	20
Beverly, J.D.	41	Brazhe, A.	83, 92
Bezerra, R.	105	Bresch, A.	139
Bezrukov, I.	13	Brinckmann, M.P.	87
Biagi, E.	41	Broad, K.D.	74, 75
Biedron, A.	67	Brock, B.	65
Biegon, A.	42, 144	Brocke, B.	15
Binkert, M.	56	Broderick, J.P.	98
Binley, K.	142	Broughton, B.R.S.	131
Bishu, S.	140	Brouillet, E.	25
Blaizot, X.	86	Brown, B.	133
Blanc, C.	146	Brust, P.	42, 144
Blanco, I.	108	Buchan, A.	96
Blasi, F.	107	Buchan, A.M.	26, 43, 104, 105, 126
Blazey, T.	15	Büche, C.Z.	47
Blockley, N.	98	Buck, A.	15
Blüher, M.	139	Buck de Sousa, H.	134
Blumenfeld, H.	19, 43, 67	Buckley, E.	66, 93
Boada, C.	133	Budziszewska, B.	51
Boas, D.	4	Buhtiyarova, N.V.	118, 121
Boas, D.A.	32, 70, 94	Bukauskas, F.F.	111
Bocan, T.	12	Buki, A.	52
Boellaard, R.	12, 137	Bulte, J.	10
Bohr, V.	81	Bunevicius, A.	107
Boisson, F.	143	Buonanno, F.S.	72, 102
Bokara, K.K.	113	Burbank, R.	19

Burjanadze, G.	127
Burkhard, P.	52, 138
Burlin, T.	140
Burunova, V.	134
Bustamante, D.	75
Buttery, L.	94

C

Cabrera-Gomez, J.	117
Cacicedo, L.	119
Cady, E.	74, 75
Caetta, F.	84
Caffo, B.	113
Cai, B.	20, 51
Cai, C.	43
Cai, J.	49
Cai, L.	139
Cai, Y.	133
Caillat Vigneron, N.	84
Callaway, J.K.	112
Calosing, C.	99
Calvillo, E.	63
Camacho, J.N.	107
Camarero, G.	111
Can, A.	97
Cañadas, R.	112
Canário, A.V.M.	122
Candelario, K.M.	112
Caner, B.	117
Cao, G.	98, 121
Cao, J.	72, 102, 122
Cao, W.-W.	135
Cao, X.	60
Capone, C.	135
Capozzi, L.	100
Caprihan, A.	27
Carmichael, S.T.	17
Carp, S.A.	32
Carpenter, J.S.	88
Carrera, D.	108
Carrero, E.	68
Carreto, L.	122
Carrillo-de Sauvage, M.-A.	82
Carruthers, N.	145
Carson, R.	34

Carson, R.E.	12, 25, 147
Carter, E.	86, 91
Cash, D.	91, 97, 127
Cass, T.	25
Castellanos, M.	16
Castillo, P.E.	26
Castro, V.	126
Catana, C.	34
Cavanaugh, J.M.	46, 125
Cavey, A.	52
Cavezian, C.	84, 134
Cellerini, M.	98
Cengiz, P.	74, 83
Cerwenka, A.	113
Cha, S.-H.	47, 51
Chaarani, B.	138, 142, 143
Chachua, M.	127
Chai, L.	127
Chalak, L.	66
Chan, K.	119
Chan, P.	146
Chan, P.H.	109
Chan, S.W.	62
Chanana, V.	74, 83
Chang, C.	93
Chang, F.-C.	88, 91
Chang, F.-L.	47
Chang, F.-L.F.	56, 95
Chang, K.-T.	47
Chang, P.	59
Chang, W.	119
Chao, D.	82
Chao, X.-D.	58
Chappell, M.	98
Chappell, M.A.	89
Chapuis, S.	111
Charles, M.	75
Charnay, Y.	147
Chatain, G.	53
Chau, M.	131
Chaudhuri, J.	100
Chauveau, F.	146
Chávez, A.E.	26
Chazalviel, L.	102
Checa, B.	114
Chen, B.	32

Chen, B.H.	74	Cho, J.H.	58, 74, 121
Chen, B.-L.	95	Cho, J.-H.	58
Chen, C.	59, 96	Cho, K.J.	100
Chen, C.-H.	87	Cho, S.	20, 112
Chen, C.-T.	98	Cho, W.G.	146
Chen, D.	96, 109, 115, 133	Choi, B.-R.	46, 49
Chen, F.	19, 91	Choi, B.T.	109, 110, 114
Chen, G.	33, 81	Choi, D.-H.	134
Chen, G.S.	64	Choi, H.B.	43, 67
Chen, H.	54	Choi, I.-Y.	127
Chen, J.	9, 27, 32, 37, 42	Choi, J.G.	104
	46, 65, 67, 78, 96	Choi, J.H.	113
	98, 101, 104, 105	Choi, J.Y.	53, 113, 144, 146
	107, 109, 111, 119	Choi, K.H.	114
	121, 125, 133, 136	Choi, S.-H.	53
Chen, J.-H.	52	Choi, T.H.	144, 146
Chen, J.-J.	48	Chokron, S.	84, 134
Chen, K.	52	Chonde, D.B.	34
Chen, K.-Y.	47, 52	Chong, C.-M.	119, 125
Chen, L.	12, 93, 133	Chong, H.	147
Chen, N.	86	Chopp, M.	17, 42, 80, 88, 96, 101, 124
Chen, Q.	127, 132, 141	Chow, R.	96
Chen, R.	61, 96	Chu, H.X.	96
Chen, S.	64, 67, 112, 117	Chu, X.	140
Chen, T.	56	Chu, X.-P.	116
Chen, W.	87, 96, 119	Chuang, H.-Y.	83
Chen, X.	59, 129, 134	Chuluun, B.	127
Chen, Y.	67, 68, 96	Chun, K.	141
Chen, Y.-C.	52	Chun, Y.I.	59
Chen, Y.-J.	52	Chung, Y.-A.	84
Chen, Y.-Y.	93, 104	Chung, Y.S.	131
Chen, Z.	57, 63, 68, 72, 81, 87, 131	Claassen, J.	11
Cheng, C.Z.	47	Claassen, J.A.	135
Cheng, J.	41, 98	Claire, B.	50
Cheon, S.Y.	100	Clapham, D.E.	105
Cheong, J.	62	Claridge, T.D.W.	52
Cherepanov, S.	111	Clark, D.	80
Cherkashova, E.	134	Coats, J.S.	78
Chernyh, A.	111	Coello, C.	143
Cherry, S.R.	3, 12, 147	Coenen, H.H.	138, 144
Chiang, S.B.	87	Cohan, C.H.	56
Chiang, Y.-H.	47, 52	Colasanti, A.	25
Chien, J.	105	Coles, J.	86, 91
Chiu, F.-Y.	88	Coles, J.P.	13
Chiu, W.-T.	47, 52	Coman, D.	19, 21, 37
Cho, I.-C.	88, 91	Conget, P.	62, 113

Connell, J.	53	Date, I.	79
Conte, V.	61	Dave, K.R.	56, 57, 109
Coope, D.J.	31, 114	Davies, B.G.	52
Copen, W.A.	105	Davies, K.	113
Coqueran, B.	97	Davis, T.P.	2, 27
Cordelli, D.M.	118	Dawson, L.A.	127
Cornelissen, B.	53	Dawson, T.M.	33
Corroyer-Dulmont, A.	85, 136	Dawson, V.L.	33
Cosgrove, K.P.	143	De Simoni, M.-G.	41, 61, 78
Costes, N.	87, 146	De Blasio, D.	78
Couch, Y.	113	de la, Parra, J.	111
Coughlin, J.	113	de, la, Rosa, Siles, X.	92
Cox, C.	51	de Nijs, R.	137
Craig, A.	48	De Silva, T.M.	99, 100
Crane, D.E.	89	de Vries, H.E.	91
Crum, W.R.	91	Debets, J.	33
Cruz-Hernandez, J.C.	41	Debnath, M.L.	139
Cuartero, M.I.	111	Dec, G.W.	72
Cui, G.	124	Deddens, L.H.	91
Cui, G.-Z.	119	Dedeurwaerdere, S.	146
Cui, H.S.	55	Deguchi, K.	93, 100, 101, 102, 119
Cui, L.	20, 37, 78	Deguchi, S.	119
Cui, Q.	56	Deleye, S.	146
Cui, Q.-H.	54	Delgado-Mederos, R.	108
Cui, R.	67, 101	Delmare, J.	136
Cui, X.	133	Delrio, I.	116
Cui, Y.	101	Delzescaux, T.	12
Culman, J.	125	Demirjian, Z.	72
Culver, J.	29	Denes, A.	23, 73, 80, 95
Cumming, P.	66	Deng, J.	96
Cunningham, L.A.	112	Deng, Q.	48
Curfman, E.	56	Deng, Y.	84
D			
da Cunha-Bang, S.	28, 37	Desplats, P.	133
Dai, H.	81	Detante, O.	68
Dai, Y.	107	Detka, J.	51
Dakota, B.J.	37	Deuther-Conrad, W.	42, 144
Dalsgaard, T.	66	Deveau, T.C.	58
D'amico, G.	41	Dewar, D.	13
Daneshmand, A.	97, 107	Dharap, A.	61
Dangel, L.	77	Dhawan, V.	31, 139
Dannals, R.	145	Dhillon, K.S.	77
Daouk, J.	138, 142, 143	Dhungana, H.	80
Dasani, S.	109	Di, K.	12
		Diaz, C.M.	48
		Diaz, V.	113
		Dichgans, M.	110

Dick, T.E.	57	Dottori, M.	118
Dickens, A.M.	52	Dou, H.	132
Diep, H.	99	Douaud, G.	34
Dietrich, C.	28	Doudet, D.	4, 31, 140, 141
Dietrich, C.A.	142	Dougherty, D.D.	34
Díez-Tejedor, E.	128, 132	Drake, C.	73
Dijkhuizen, R.M.	4, 10, 13, 20, 89, 91, 92, 103	Dreier, J.	39
DiMauro, S.	100	Dreier, J.P.	51
Dimber, R.	142	Drevets, W.	28
Ding, G.	88	Drewes, L.R.	2
Ding, J.	64	Drisko, J.A.	127
Ding, S.	105, 107	Drummond, G.	100
Ding, X.	101	Drummond, G.R.	96, 99, 120, 131
Ding, Y.	21, 94, 95, 121	Drury-Stewart, D.	96
Ding, Y.-S.	25	D'Souza, D.C.	147
Dinia, L.	108	Du, F.	104, 141
Dirnagl, U.	7, 23, 35, 85, 87, 95, 107	Duan, L.	65, 70
Divani, A.A.	96	Duan, P.	110
Divoux, D.	103, 136	Duan, S.-S.	59
Diwan, I.	105	Duan, W.-M.	78
Dix, T.A.	124	Duan, Y.	21, 121
Dixon, A.L.	97, 127	Dubb, J.	32
Dixon, C.E.	78	Duchamp, N.S.	37
Dixon, E.	5	Duchemin, S.	134
Doan, B.-T.	97	Dukart, J.	144
Dockrell, D.	73	Dulay, M.	88
Doerfler, A.	55	Dulay, M.F.	87
Dohgu, S.	24	Dumas, N.	147
Doi, Y.	50	Duncan, N.	85
Dollé, F.	12, 25, 41, 142, 145	Duncan, N.W.	84
Domino, E.F.	52	Dunhall, J.	53
Domoki, F.	125	Dunn, A.	44
Donat, C.	42	Dunn, A.K.	44, 93
Donat, C.K.	144	Dunnett, S.B.	48
Dong, C.	41	Duong, T.	88
Dong, M.	39	Duong, T.Q.	104
Dong, Q.	32	Duran, J.	14
Dong, W.	59, 61	Durand, L.	85
Donnan, G.A.	118	Durduran, T.	68, 92, 108
Doppler, E.	80, 124	Duricki, D.	91, 127
Doran, S.	100	Duricki, D.A.	97
Dore, S.	95, 100	Duris, K.	117
Doré, S.	63	Dyssegaard, A.	37, 137, 145
Doshi, H.	79		
Dotti, C.G.	121		

E

Eady, T.N.	21
Earley, C.	141
Edlow, B.L.	80
Edvinsson, L.	56, 61, 63, 95, 101, 115
Eftekhari, S.	115
Egefjord, L.	65
Eggers, C.	138
Egorov, A.	123
Eguchi-Suga, Y.	141
Ehrmann, M.	110
Eidelberg, D.	13, 31, 139
Eikermann-Haerter, K.	97, 103
Eisenhardt, A.	99
Eisenhuth, J.	12
Ejaz, S.	48
Eldeniz, C.	107
Eleftheriades, J.A.	21
Elia, M.	72, 102
El-Kadri, R.	132
Ellis-Davies, G.	43
Elmenhorst, D.	34
Emmrich, J.	48
Endepols, H.	95
Endo, F.	74
Endo, K.	89
Endres, C.	113, 146
Endres, M.	30, 107
Enmi, J.	15, 137
Erickson, M.	24
Eriksson, J.	53
Eriksson, O.	53
Erritzoe, D.	142
Escartin, C.	12, 69, 82, 114
Eskina, I.	63
Espinera, A.R.	78, 97
Esterhazy, D.	145
Esterlis, I.	147
Estrada, E.Y.	106
Ettrup, A.	12, 37, 145
Evans, M.A.	120
Evdokimov, D.V.	118, 128
Exo, J.L.	123

F

Faber, C.	41
Fabregas, N.	68
Fagan, A.	136
Fan, D.	51
Fan, W.	107
Fan, X.	81, 129
Fan, Y.	51
Fang, H.	115
Fang, Y.	99
Faragó, E.	53
Farde, L.	31, 138, 143
Farid, K.	84
Farkas, A.E.	27
Farkas, E.	80
Farr, T.	87
Farr, T.D.	13, 87
Farrell, R.	12
Fasshauer, M.	139
Fatemi, A.	75
Fathali, N.	115
Fatouros-Bergman, H.	31
Faulkner, S.	74, 75
Faust, A.	41
Favretto, M.E.	54
Fazakas, C.	27, 54
Feener, E.P.	105
Feeney, K.	72, 102
Fei, G.	19
Fei, T.	97
Fei, Z.	55, 56, 58, 60, 61 70, 79, 110, 119, 123
Feldman, M.	66
Feldman, M.D.	94
Fellgiebel, A.	144
Felzen, M.	142
Feng, H.	68, 116, 131
Feng, J.	60
Feng, L.	28, 122, 137
Feng, X.-C.	69
Fenoglio, A.	32
Ferland, G.	134
Ferrazzano, P.	74, 83
Feuerstein, D.	14, 67, 107
Fidan, E.	74

Gao, Y.Q.	125	Gonzalez-Toledo, M.	136
Gao, Z.	81	Goodrich, J.A.	21
Garcia-Yebenes, I.	121	Gorbacheva, L.	83
Garg, P.	105	Gorji, A.	116
Garibotto, V.	138	Gorman, M.P.	90
Garraud, M.	97	Gout, O.	134
Garz, C.	47	Goutal, S.	145
Ge, J.	13	Goveas, J.	81
Gee, G.	86	Gracia, I.	68
Geeraerts, T.	86	Graf, R.	14, 67, 95, 107
Geisler, S.	144	Graham, S.	101
Gejl, M.	65	Gramer, M.	14, 67
Gelderblom, M.	96	Granell, E.	108
Geng, L.	86	Grant, P.E.	32
Genovese, E.	118	Grassi, M.	85
Gergont, A.	67	Grau, V.	102
Gerhard, A.	31, 114	Gravel, P.	84
Gerich, F.J.	46	Gray, F.A.	142
Gesslein, B.	43, 68	Greenberg, D.A.	132
Geyer, S.	90	Greer, D.M.	80
Gharakhani, M.	116	Gregoire, M.C.	143
Gidday, J.M.	26	Grencis, R.	80
Giffard, R.	106	Grenier, J.	83
Gillings, N.	37	Gresia, V.L.	57
Ginovart, N.	28	Gressens, P.	38
Giralt, D.	133	Grewal, H.	57
Girouard, H.	14, 134	Griffin, J.L.	52
Giroud Benítez, J.L.	117	Grimm, S.	89
Giubbini, R.	85, 116	Grosberg, L.E.	68
Gjedde, A.	15, 34, 65, 66, 139, 141, 147	Grossac, J.	86, 91
Gladding, R.	28	Grosser, O.S.	84
Glenn, T.C.	42	Grossman, R.G.	87, 88
Glitsch, M.	50	Grotta, J.C.	39, 61
Glombik, K.	51	Gruetter, R.	43
Göb, E.	33	Gründer, G.	28, 142
Gobbi, L.	145	Grünstein, D.	87
Goertler, M.	47	Gu, L.	97, 106
Golay, X.	74, 75	Gu, X.	78, 97, 104
Goldberg, I.	79	Gu, Y.	53, 54, 92
Goldschmidt, J.	84, 85	Guan, T.	97
Göllitz, P.	55	Guan, Y.	14, 41, 133
Gollub, R.L.	34	Guan, Y.-H.	141
Gomboeva, N.	116	Gubski, L.	134
Gonçalves, I.	122	Guenther, M.	90
Gonik, M.	33	Guillamo, J.-S.	136
Gonzalez, V.	111	Guillermier, M.	12, 82, 142, 145

Guinovart, J.J.	14	Hall, L.T.	145
Guiot, M.-C.	137	Hallidin, C.	12, 31, 143, 145
Gulati, K.	73, 127	Hallett, W.	147
Gulyás, B.	145	Halloran, J.	19
Gunn, R.	34, 137	Halvorson, P.	71
Gunn, R.N.	3, 15, 25, 34, 140, 142, 147	Hamacher, K.	144
Gunzer, M.	103	Hamel, E.	37, 43, 69, 70, 128, 129, 135
Guo, A.	110	Hamer, M.	78
Guo, F.	97	Hamilton, R.L.	139
Guo, H.	127	Hammarlund-Udenaes, M.	53
Guo, J.	21	Hammers, A.	87
Guo, K.	132	Han, D.	84
Guo, L.	81	Han, F.	25
Guo, P.	51, 54	Han, H.S.	114
Guo, Q.	15, 25	Han, J.	132
Guo, S.	126	Han, J.-S.	46, 49
Guo, S.-Z.	72	Han, L.	110
Guo, W.-Y.	91	Han, P.-L.	120
Guo, X.-M.	32	Han, Q.	67
Guo, Y.	42	Han, T.	49
Guo, Z.	21	Han, X.	110
Gustafsson, S.	53	Hang, W.C.	62
Guthikonda, M.	95	Hankins, J.D.	26
Gutiérrez-Fernández, M.	128, 132	Hanna, B.D.	93
H			
Ha, S.-K.	62	Hansen, D.L.	28
Haacke, E.M.	79, 125	Hansen, H.D.	144, 145
Haahr, M.E.	28	Hansen, M.	37
Habermann, B.	144	Hansen, M.B.	139
Hachinski, V.	38	Hantraye, P.	12, 25, 142, 145
Hacke, W.	41	Hao, Z.	61
Hadley, G.	26	Hapuarachchi, T.	74
Hadley, G.L.	104	Harms, C.	87
Haeusler, D.	25, 140, 141	Harnof, S.	42
Haffner, C.	110	Harris, M.	66
Hagberg, H.	38	Harston, G.W.J.	98
Hahn, A.	140, 141	Hartman, R.	65
Hailong, L.	107	Hartung, T.	145
Hajjar, K.A.	81	Haruma, J.	79
Halepoto, D.M.	51	Hasan, D.	39, 87
Haley, M.	98	Hasegawa, Y.	65, 115
Hall, C.	43	Hashimoto, K.	39, 91, 109, 124
Hall, C.L.	124	Hashimoto, N.	85
Hall, C.N.	105	Hasholt, L.	28
		Haskó, J.	27, 54
		Hassan, S.H.	109, 119
		Hassanshahi, J.	119

Hatazawa, J.	6, 84, 147	Hillman, E.	35, 43
Hayakawa, K.	77	Hillman, E.M.C.	68
Hayasaka, T.	33, 136	Hiltunen, M.	120
Hayashi, K.	82, 105	Hines, C.	28
Hayashi, T.	49	Hinz, R.	31, 114
Hazell, A.S.	115	Hirayama, M.	49, 66, 124
He, C.	49	Hiura, M.	84
He, M.-D.	60	Hjørnevik, T.	143
He, X.	14, 46, 132, 136	Ho, H.	119
He, Z.	21	Hoffer, B.	77
Heckemann, R.A.	87	Hoffmann, C.	42
Heerschap, A.	135	Hoffmann, U.	126
Hegerl, U.	90	Hoi, M.P.M.	62
Heimann, A.	62, 81	Hoi, P.-M.	119
Heinze, H.-J.	47	Hokari, M.	99
Heitmiller, K.D.	76	Holl, K.	144
Helal, C.	12	Holman, T.R.	21
Helm, P.J.	83	Holmes, W.	113
Heng, W.	73	Holst, J.J.	65
Henkel, K.	28, 142	Holt Müller, A.	61
Henter, I.	28	Holtbernd, F.	139
Heo, J.-H.	127	Homborg, J.R.	13
Héran, F.	134	Honer, M.	145
Hérard, A.-S.	12	Hong, G.	76
Herdegen, T.	125	Hong, Y.	86, 107
Herholz, K.	31, 114	Hong, Y.T.	13
Herisson, F.	107	Hong, Y.Z.	127
Herman, P.	19, 43, 65, 67	Hong-Goka, B.	47
Hermann, S.	41	Hong-Goka, B.C.	56, 95
Hermans, R.	33	Hooker, J.M.	34
Hernandez, M.	121	Hori, Y.	15, 137
Hernández-Guillamon, M.	133	Horie, T.	89
Herrera-Marschitz, M.	75	Horikawa, H.	33, 46, 77, 82, 110, 136
Herson, P.	33	Horikoshi, T.	39, 91, 124
Herson, P.S.	57, 123	Horiuchi, K.	81
Herth, M.	28	Horowitz, L.	140
Herth, M.M.	144, 145	Hossain, M.	13
Herzog, H.	6, 15	Hou, B.	88
Hesse, S.	139, 144	Hou, H.	141
Hickey, R.	101	Hou, Q.	130
Higashida, T.	95	Hou, T.-J.	125
Higashiyama, N.	70	Houitte, D.	142
Higuchi, M.	18, 31, 50, 138, 141, 146	Housley, G.	48
Hilbert, A.	139	Howarth, C.	43, 89, 90
Hill, C.	70	Howells, D.	16
Hiller, A.	144	Howells, D.W.	118

Isozaki, M.	88	Jhala, S.S.	115
Italiano, D.	52	Ji, B.	31, 50, 146
Ito, A.	33, 46, 77, 82, 110, 136	Ji, X.	21, 26, 81, 82, 101, 106, 107, 111, 119, 120, 121, 122, 125, 126, 133
Ito, H.	3, 14, 27, 31, 68, 69, 92, 137, 138, 141	Ji, Y.	139
Ito, Y.	66, 124	Jia, D.	57
Itoh, H.	59, 128	Jia, J.	21, 41, 98, 111, 119, 121
Itoh, K.	85	Jia, W.	54
Itoh, Y.	14, 27, 69	Jia, X.	146
Ivanova, A.	83	Jiang, F.	60
Ivasyk, I.	41	Jiang, H.	25
Iversen, N.K.	43	Jiang, L.	19, 37
Iversen, P.	28, 139, 140	Jiang, M.	56, 93
Iwai, M.	74, 75	Jiang, Q.	58, 88, 116, 140
Iwanaga, H.	84	Jiang, T.	82
Izutsu, M.	79	Jiang, X.	42, 46, 136
		Jiang, Z.	96
		Jiao, J.	15
		Jiao, Q.	60
		Jiao, Y.	101
		Jickling, G.C.	51, 63, 98
		Jie, J.	102
		Jimenez, E.G.	43
		Jin, G.	81
		Jin, J.	19, 135
		Jin, K.	132
		Jin, Q.	98
		Jin, X.	53
		Jin, Y.-C.	120
		Jing, D.	20
		Jing, H.	120
		Jing, Z.	98
		Jinning, L.	58, 60, 120
		Johansson, S.E.	56
		Johnston, I.	33
		Johnston, M.V.	75
		Jolkkonen, J.	95, 98, 120
		Jolkkonen, J.	23
		Jones, E.S.	120
		Jones, J.L.	81
		Jones, N.M.	74, 75
		Jones, S.C.	99
		Joo, S.	120
		Joshi, J.	127
		Judenhofer, M.S.	12
		Juhasz, C.	15
J			
Jackson, A.	31, 114		
Jacobs, A.H.	41, 136		
Jacobsen, H.	145		
Jacono, F.J.	57		
Jafarian, M.	116		
Jakobsen, S.	31, 140, 141, 146, 147		
Jamrogowicz, J.L.	76		
Jan, C.	25, 145		
Jang, H.	62		
Jang, J.Y.	109, 110		
Jang, Y.J.	114		
Janik, R.	100		
Jantanukul, A.	56		
Jaskowiak, C.	145		
Jauch, E.C.	98		
Jenkins, T.A.	112		
Jenkinson, M.	34, 142		
Jensen, V.	83		
Jensen-Kondering, U.	48		
Jeon, T.J.	144, 146		
Jeong, S.S.	61		
Jeong, Y.	116		
Jeong, Y.J.	86		
Jeromin, A.	52		
Jessen, N.	146		
Jessen, S.B.	83		
Jezzard, P.	98		

Jung, H.	137
Jung, J.E.	21
Jung, J.H.	145
Jurek, P.	94
Justicia, C.	92

K

Kacinski, M.	67
Kajihara, N.	89
Kalani, A.	123
Kalk, N.	25
Kallakuri, S.	46, 125
Kallinteri, P.	54
Kálmán, M.G.	53
Kamalakaran, A.	142
Kamat, P.K.	123
Kanagawa, M.	50
Kanai, Y.	147
Kaneko, H.	146
Kanemaru, K.	39
Kang, D.-Y.	86
Kang, S.	84
Kang, Z.	75
Kang, Z.M.	129
Kanno, I.	3, 6, 14, 27, 68, 69, 92, 137
Kanovsky, P.	52
Kao, Y.-C.J.	13, 99, 104
Kao, Y.-H.	84, 88, 91
Kao, Y.-T.	84
Kapoor, S.	99
Kapur, S.	140
Karabatsou, K.	31, 114
Karam, J.-P.	103
Karatas, H.	21
Karbowski, J.	65, 143
Karcher, S.	113
Karibay, S.	61
Karimzadeh, F.	116
Karlsson, P.	41
Karmonik, C.	87, 88
Kashihara, K.	100
Kasper, S.	140, 141
Kataoka, H.	85
Katebi, M.	59
Kato, H.	147

Kato, M.	82, 105
Katusic, Z.S.	77
Kaufmann, U.	141
Kaur, S.	113
Kawabori, M.	99
Kawaguchi, H.	14, 27, 68, 69, 92, 137
Kawahira, K.	71, 135
Kawai, H.	102
Kawai, N.	50, 99
Kawakata, M.	89
Kawamura, J.	89
Kawanishi, M.	99
Kawano, J.	85
Kawashima, H.	15, 137
Kawashima, R.	90
Kazmi, S.M.S.	93
Ke, K.	48, 62
Ke, Z.	116
Kealey, S.	140
Keat, N.	147
Keep, R.	54, 129
Keep, R.F.	39, 50, 63
Keiding, S.	139
Keller, S.	28
Kelley, M.R.	96
Kelly, S.	105
Kempski, O.	62, 81
Kendigelen, P.	74
Kennedy, F.	102
Kennedy, J.	98
Kennerley, A.	126
Kersbergen, C.J.	41
Kersemans, V.	114
Kezerle, Y.	47, 61
Khaksari Haddad, M.	49
Khan, R.	117
Kharlamov, A.	99
Khatibi, N.H.	117
Khennouf, L.	68
Khodaghali, F.	118
Khojasteh, U.	51
Kholodenko, I.	134
Khoury, J.	98
Khoutorova, L.	21
Khrapichev, A.	49
Khrapitchev, A.	90

Kido, J.	74, 75	Kimberly, W.T.	105
Kikuchi, J.	50	Kimura, H.	88, 145
Kikuta, K.	88	Kimura, Y.	138, 141
Killaan, A.J.	11, 135	Kin, T.	94
Kilroy, E.	91	Kinoshita, T.	89
Kim, B.-J.	62	Kinouchi, H.	39, 91, 109, 124, 128
Kim, B.R.	46	Kintner, D.	74
Kim, B.S.	144, 146	Kirkham, F.	71
Kim, B.T.	126	Kirlow, A.	137
Kim, C.	62	Kirton, A.	32
Kim, D.	83, 146	Kitagawa, K.	27, 68, 135
Kim, D.H.	82	Kitazawa, Y.	87
Kim, E.	112, 124	Klebe, D.	125
Kim, G.W.	100	Kleikers, P.	33
Kim, H.	104	Kleinig, T.	64
Kim, H.A.	96, 99, 120	Kleinschnitz, C.	33
Kim, H.-I.	146	Klomp, A.	13
Kim, H.-J.	84	Klunk, W.E.	13, 139
Kim, H.N.	109, 110	Knudsen, G.M.	12, 25, 28, 34, 37 137, 144, 145
Kim, H.-S.	103	Kobayashi, E.	137
Kim, H.Y.	46, 49	Kobayashi, N.	85
Kim, I.-D.	120	Kochanski, R.	95
Kim, I.H.	58	Kocienski-Filip, M.	32
Kim, J.	62, 116	Kodaka, F.	138, 141
Kim, J.H.	114	Koehler, R.	14
Kim, J.-H.	114	Koehler, R.C.	33, 76
Kim, J.-H.	134	Koeppe, R.	3
Kim, J.S.	71, 73	Koh, R.	67
Kim, J.Y.	53, 119, 124	Koh, Y.C.	59
Kim, K.H.	131	Koistinaho, J.	80
Kim, K.-M.	47	Kokubun, K.	128
Kim, M.S.	146	Kolodziej, A.	84
Kim, N.	119, 124	Komatsu, M.	50
Kim, R.G.	146	Komleva, Y.	111
Kim, S.	111, 144	Kondoh, Y.	89
Kim, S.-D.	62	Kong, J.	34, 97, 104
Kim, S.E.	137, 145	König, R.	103
Kim, S.-H.	62	Kono, S.	100, 119
Kim, S.J.	71, 73, 99, 143	Koo, B.-N.	55
Kim, S.M.	71, 73	Koop, H.	72, 102
Kim, S.W.	80	Kopka, K.	41
Kim, S.Y.	99	Kosaka, H.	89
Kim, Y.	111	Koshino, K.	15, 137
Kim, Y.-J.	62	Koshoridze, N.	127
Kim, Y.R.	109, 110	Kou, Z.	79
Kim, Y.T.	33		

Kozberg, M.G.	68	Kuroda, H.	85
Krafft, P.	62, 65, 112, 131	Kushnir, T.	42
Krafft, P.R.	125	Kutcherenko, L.I.	118
Krainik, A.	68	Kuts, R.	47, 61
Krams, S.	97	Kuvacheva, N.	111
Kranz, A.	88	Kuwabara, H.	137, 141, 145
Kranz, G.S.	140, 141	Kwan, Y.W.	62
Kraus, C.	75	Kwansa, H.	33, 76
Krause, D.N.	95	Kyme, A.	12
Kravchenko, T.I.	71	Kyri, M.	142
Kringelbach, M.L.	140		
Krishnan, A.	48		
Kristensen, J.L.	37, 144, 145	L	
Kristian, T.	49	Labaree, D.	12
Kristoffersen, A.	92	Lad, Y.	142
Krizbai, I.	27	Laettig, G.	87
Krizbai, I.A.	54	Lafuente, J.V.	54, 122
Kroll, T.	34	Lai, C.-H.	87
Kruse, L.S.	61	Lai, H.-Y.	13, 93, 99, 104
Krystio, R.J.	114	Lake, E.	100
Ku, J.	100	Lam, S.	73
Kuan, A.	126	Lamalle, L.	68
Kuan, C.-Y.	32, 129	LaManna, J.C.	57, 75
Kuang, Y.	57	Lammertsma, A.	3
Kubera, M.	51	Lammertsma, A.A.	137
Kuchukashvili, Z.	127	Landau, A.	145
Kudo, T.	72	Landau, A.M.	31, 34, 140, 141, 147
Kudomi, N.	15, 99	Langen, K.-J.	138, 144
Kuebler, W.M.	80	Langlois, X.	12, 15, 34
Kuhlmann, M.T.	41	Lankes, K.	13
Kuhnast, B.	142	Lanzenberger, R.	25, 140, 141
Kulikowicz, E.	76	Lapina, N.E.	100
Kumagai, T.	14	Laranjeira, S.	100
Kumakura, Y.	141	Larkin, J.R.	52
Kumar, A.	116	Larsen, A.C.	76
Kumari, S.	109	Larsen, S.S.	56
Kumata, K.	146	Larsen, V.A.	137
Kunz, A.	87	Lason, W.	51
Kunz, A.R.	55	Latschaw, K.	74
Kuo, J.S.	145	Lauritzen, M.	35, 43, 67, 68, 81, 83, 92
Kuptsova, K.	120	Lauritzen, M.L.	83
Kurachi, M.	46	Lavissee, S.	12, 25, 145
Kuramatsu, J.B.	61	Lawrence, C.	98
Kurata, T.	100, 101, 102	Lawrence, C.B.	102
Kurek, A.	51	Laymon, C.M.	139
Kuric, E.	77	Le, Bars, D.	146

Le, Bas, J.-F.	68	Lee, Y.J.	47
Leak, R.K.	42, 105, 107, 111, 133	Lee, Y.L.	58, 74, 121
Lebon, V.	12	Lee, Y.W.	145
Lecca, D.	41	Lehel, S.	37
Lecocq, M.	103, 136	Lei, H.	43
Lee, B.C.	137, 145	Lei, Z.	56
Lee, C.	51	Leibenluft, E.	28
Lee, C.C.	66	Leitzke, A.S.	125
Lee, C.H.	74	Lekic, T.	62, 65, 115, 125
Lee, C.-H.	131	Lemaire, C.	142
Lee, C.S.	71, 73	Leng, T.-D.	59, 69
Lee, D.	104	Leonard, A.V.	105
Lee, D.H.	58, 104	Leonardo, C.C.	100
Lee, D.Y.	87	Leopold, D.A.	90
Lee, F.	20	Lerche, S.	65
Lee, H.	104	Lesbats, C.	97
Lee, H.-B.	120	Leskiewicz, M.	51
Lee, H.J.	47	Leung, G.P.H.	62
Lee, H.-K.	120	Leung, J.	73, 118
Lee, H.-Y.	145	Lever, S.Z.	144
Lee, I.	95	Levich, S.V.	120
Lee, J.	44, 46, 70, 134	Levine, M.A.	127
Lee, J.-C.	58, 121	Levman, J.	98
Lee, J.E.	53, 58, 100, 113, 132	Leyton, L.	75
Lee, J.H.	44, 55, 79, 97	Leyton, M.	137
Lee, J.-K.	120	Li, B.	110, 132, 136
Lee, J.M.	71, 73	Li, C.	97
Lee, J.-M.	40	Li, C.-S.R.	88
Lee, K.-H.	134	Li, D.-W.	26, 65, 111, 117
Lee, K.-M.	53, 127	Li, E.	111
Lee, M.	144, 146	Li, F.	94, 101
Lee, M.-Y.S.	119	Li, G.	21, 121
Lee, P.	127	Li, H.	105, 125
Lee, S.	96, 99, 120	Li, J.	25, 70, 73, 88, 96, 100, 124, 129, 133, 144
Lee, S.H.	131	Li, J.-F.	32
Lee, S.-H.	62	Li, J.-M.	54
Lee, S.M.Y.	62, 125	Li, K.	86
Lee, S.R.	47, 49	Li, L.	13, 48, 60, 88, 112, 117, 132
Lee, S.-R.	51	Li, L.-T.	101
Lee, S.-T.	53	Li, M.	19, 21, 26
Lee, S.U.	121	Li, M.-L.	93
Lee, S.W.	63	Li, N.	122
Lee, S.Y.	47, 51	Li, P.	27, 37, 105, 111, 119
Lee, T.	85	Li, P.A.	109
Lee, W.S.	99	Li, P.-C.	101
Lee, Y.-H.	83		

Li, Q.	33, 88, 132	Lin, Y.-R.	93
Li, S.	13, 58, 60, 62, 107, 120	Lind, B.L.	83
Li, S.-J.	81	Lindauer, U.	63
Li, S.-Y.	121	Lindner, C.	68
Li, W.	67, 81, 101	Lindquist, B.E.	14
Li, X.	33, 128	Lindquist, D.M.	32, 129
Li, X.-B.	95	Lindström Böö, É.	138
Li, Y.	46, 49, 51, 93, 101, 113 128, 132, 135, 136, 139	Ling, F.	21, 49, 111
Li, Y.-S.	135	Linnet, J.	141
Li, Y.V.	49, 60	Linzer, P.	94
Li, Y.-Y.	125	Liou, A.	78, 133
Li, Z.	67, 101	Liou, A.K.-F.	42, 121
Li, Z.-R.	60	Liow, J.-S.	28
Liang, J.	82	Lipsanen, A.	120
Liang, Q.-L.	115	Liu, C.	32, 49, 110
Liang, W.	37, 117, 124	Liu, C.-C.	13
Liang, X.	58, 60, 120	Liu, C.Y.	91
Liang, Y.	56	Liu, D.	98
Liao, L.-D.	93	Liu, D.-F.	92
Liao, M.	132	Liu, D.Z.	63
Liao, W.	86	Liu, F.	63
Liao, Z.	129	Liu, H.	29, 41, 101
Licht, D.J.	66, 93	Liu, J.	41, 52, 53, 66, 70, 119, 136
Liebeskind, D.S.	86	Liu, J.-R.	53
Lierman, J.A.	127	Liu, K.	53, 59, 60, 79, 107
Liesz, A.	41, 113	Liu, L.	115
Liew, H.	64	Liu, M.	61
Lijnen, P.	33	Liu, N.	81, 93, 119, 123, 129
Lim, A.	45	Liu, P.	121
Lim, D.-J.	62	Liu, T.	104, 105
Lim, N.H.	137, 145	Liu, W.	53, 59, 101, 119
Lim, R.	131	Liu, X.	81, 82, 101, 111, 119, 121, 125
Lin, A.-L.	19, 37	Liu, X.-Y.	136
Lin, C.-J.	91	Liu, Y.	21, 51, 53, 60, 110, 146
Lin, D.	64	Liu, Y.-S.	98
Lin, E.-Y.	52	Liu, Y.-X.	32
Lin, F.-C.	98	Liu, Z.	68, 101, 115
Lin, F.-H.	29	Livnat, A.	129
Lin, H.W.	57	Livny-Ezer, A.	42
Lin, S.	61, 115	Lizasoain, I.	111, 112, 121
Lin, S.-F.	12, 25, 147	Lo, A.C.Y.	121
Lin, S.-H.	83	Lo, E.	9
Lin, W.	99, 107	Lo, E.H.	21, 72, 77, 81, 102 106, 126, 129
Lin, X.	14, 20, 46, 136	Lobsien, D.	139
Lin, Y.	73, 87, 135	Lodge, M.	138

Loetscher, H.	145
Logan, C.L.	95
Logan, J.	144
Lok, J.	126
Long, L.	52, 123
Longhi, L.	78
Longo, D.	118
Lønstrup, M.	67
Looger, L.	83
Lopez, M.	72, 102
Lopez, O.L.	139
Lou, M.	72, 87
Lu, H.	54, 93, 119
Lu, H.-X.	60
Lu, J.	19
Lu, L.	67, 101
Lü, L.	132
Lu, M.	79, 87, 115
Lu, S.	46, 104, 109, 133
Lu, S.D.	125
Lu, Y.	132
Luan, W.	60
Lucassen, P.J.	13
Lückl, J.	51
Luh, C.	77
Lund, T.E.	66
Luo, C.-B.	91
Luo, H.	51, 54
Luo, L.	120, 132
Luo, P.	58
Luo, S.	101
Luo, T.	110
Luo, Y.	81, 82, 101, 107, 111 119, 121, 125, 130
Lupson, V.	91
Luthardt, J.	139
Lützen, U.	125
Lv, Y.	136
Lyall, J.S.	77
Lynch, J.M.	66, 93
Lynn, Ho, Y.-C.	66
Lyoo, C.H.	28
Lythgoe, D.	127
Lyu, Y.	46

M

Ma, B.	63
Ma, K.	133
Ma, Q.	63, 112, 117
Ma, S.	113
Ma, Y.	13, 31, 139, 143
Machawal, L.	116
MacIntosh, B.J.	89
MacKenzie, E...T.	136
Macleod, M.	23, 95, 118
Macrae, M.	7, 33
Macvicar, B.	43, 67
Maczka, M.	89, 113
Madai, V.	90
Maddahi, A.	101
Madsen, J.	28
Madsen, K.	28
Madsen, M.K.	28
Maeda, J.	31, 141
Maehara, T.	71, 72
Magga, J.	80
Magne, J.-L.	68
Mahalek, J.	53
Mahmood, A.	42, 80, 88, 124
Maisonial, A.	144
Major, S.	51
Makino, M.	106
Makoukji, J.	83
Malinovskaya, N.	111
Malkoff, M.	85
Mallet, J.	143
Mallinger, A.	28
Malm, T.	80
Mamalyga, M.	68
Mamrak, U.	33
Manabe, Y.	100
Manaenko, A.	65, 117
Mandelbaum-Livnat, M.	69
Mandeville, E.	129
Mandeville, E.T.	21
Mandeville, J.B.	34, 107
Mani, V.	13
Manjunath, M.J.	129
Mann, J.J.	143
Mansilla, F.	86

Mante, M.	133	Maysami, S.	102
Manwani, B.	100	Mc Mahon, B.	28
Mao, L.	41, 42	McArthur, J.C.	138
Mao, L.L.	125	McCarthy, T.J.	25
Mao, X.	41, 132	McCaul, M.	141
Mao, Y.	92	McCcoll, B.	102
Marandykina, A.	111	McCormick, D.A.	67
Marcelino, H.	122	McCullough, L.	100
Marchand-Leroux, C.	97	McHugh, B.	21
Margaill, I.	97	McIntosh, E.	80, 105
Marik, J.	147	McLeod, D.D.	95, 102
Marklund, P.	31	McMahon, B.	37
Markowitsch, H.J.	140	McMenamin, M.M.	26
Marteau, L.	85, 103	McMullin, D.	72, 102
Marti-Fabregas, J.	108	Mechawar, N.	31
Martin, A.I.	95	Meerhoff, G.F.	13
Martin, C.	43, 49, 89, 90, 113	Meeuwissen, A.J.M.	26
Martin, C.J.	69	Meffre, D.	83
Martin, L.J.	76	Mehdizadeh, M.	59
Martin, R.D.	78	Mehndiratta, A.	89
Martin, R.H.	63	Mehrotra, A.	109
Martin, S.	90	Mehta, S.L.	109
Maruyama, D.	85	Meier, D.	133
Maruyama, H.	49	Meikle, S.	12
Maruyama, M.	31	Meisel, A.	59
Maruyama, T.	95	Meissner, L.	33, 79
Masamoto, K.	14, 27, 69, 92, 137	Meixensberger, J.	42
Masliah, E.	133	Melamed, I.	47, 61
Massaad, C.	83	Mellendijk, L.	135
Massarweh, G.	137	Menabde, K.	127
Masur, I.A.	118	Ménard, B.	102
Mathiesen, C.	67, 83, 92	Mendelev, N.	109
Mathis, C.A.	13, 139	Meng, R.	21, 121
Matson, M.	90	Meng, S.	64
Matsuda, H.	84	Meng, W.	54
Matsuda, N.	50	Meng, Y.	42, 80, 124
Matsuda, T.	83	Menke, R.	142
Matsumoto, S.	71, 74, 135	Menon, D.	86, 91
Matsunaga, K.	147	Menon, D.K.	13
Matsuura, T.	68	Menon, P.K.	122
Matthews, L.	52	Mergenthaler, P.	59
Matthews, P.M.	25	Mesquita, M.	91, 97, 127
Matusch, A.	34	Metz, G.	23, 95
Matuskey, D.	147	Meyer, B.	63
Mauler, J.	15	Meyer, M.-E.	138, 142, 143
Mayevsky, A.	69, 129	Meyer, P.M.	139

Mi, J.-H.	135	Mohd-Yusof, A.	78
Miao, J.	130	Möhlenbruch, M.	
Miao, P.	14, 132	Møller, A.	31, 66, 140
Mies, G.	95	Möller, H.	90
Mika, V.	79	Møller, K.	37
Mikuni, M.	46	Møller, N.	65
Milella, M.S.	137	Molnár, J.	27, 54
Miller, A.	100	Momosaki, K.	74, 75
Miller, C.C.	80	Mondello, S.	52
Miller, C.T.	90	Monson, N.L.	26
Millet, P.	28, 147	Montaner, J.	1, 21, 52, 133
Min, L.	130	Monteiro-Sylva, K.	134
Min, X.F.	71	Montero-Menei, C.	103
Minamihisamatsu, T.	146	Moon, B.S.	137, 145
Minamimoto, T.	141	Moon, C.T.	59
Ming, C.	110	Moon, S.K.	104
Mingfen, L.	102	Moon, W.J.	46
Minghuan, W.	102	Moraga, A.	112
Minhas, D.S.	139	Morales, P.	75
Mintun, M.	18	Morancho, A.	133
Minuzzi, L.	137	Morgun, A.	111
Miranda, R.C.	52	Morgunov, M.	32
Mishima, K.	97	Mori, H.	74, 75
Mitsubuchi, H.	74	Moriguchi, T.	15, 137
Mitterhauer, M.	25	Morita, K.	85
Mitterhauser, M.	140, 141	Morita, N.	137
Miura, S.	145	Morita, T.	147
Miyake, A.	66	Moro, M.A.	16, 111, 112, 121
Miyata, H.	89	Moroz, T.	74
Miyata, R.	71	Morris, E.D.	143, 147
Miyata, S.	46	Morris, J.C.	15
Miyawaki, S.	33, 46, 77, 82, 110, 136	Morris, M.J.	75
Miyazaki, T.	59	Morris-Blanco, K.C.	26
Mizoi, K.	50, 59, 70, 72, 128	Moskalenko, Y.E.	71
Mizuma, A.	89	Moskowitz, M.	9
Mochizuki, H.	27, 68, 135	Mottaghy, F.	28
Mochly-Rosen, D.	9	Mottaghy, F.M.	142
Mocking, S.	105	Moulin-Sallanon, M.	28, 147
Moeller, A.	141	Mouridsen, K.	139
Moesler, H.	133	Mracsko, E.	41, 113
Moessler, H.	81, 122	Mueller, A.H.	63
Mohamad, O.	104, 133	Muengtaweepongsa, S.	52, 56
Mohamed, M.	138	Muir, E.	19
Mohammadkhani, Shali, S.	142	Mukasa, A.	82
Mohammedkhali, S.	28	Mukawa, M.	71, 72
Mohanta, G.P.	118	Murali, S.	61

Muralidhara, D.R.	129
Murata, C.	110
Muresanu, D.F.	54, 55, 81, 122, 128
Murikinati, S.	78
Muroi, C.	97
Murphy, A.	96
Murray, K.	113
Murray, K.N.	73, 121
Mutke, M.	90
Mutus, B.	101
Muzik, O.	15

N

Nabulsi, N.	12, 25, 147
Nagakane, Y.	106
Nagamine, Y.	49
Naganawa, M.	3, 12, 25
Nagata, E.	108
Nagel, S.	96
Nagelhus, E.	83
Nagyószai, P.	27, 54
Nahimi, A.	34, 147
Najafzadeh, S.	12, 147
Nakagawa, D.	94
Nakagawa, S.	94, 126
Nakagawara, J.	84, 85
Nakamura, K.	89
Nakao, R.	12, 143, 145
Nakatomi, H.	33, 46, 72, 77, 82, 136
Nakaya, K.	137
Nakka, V.P.	79
Nalepa, I.	51
Nan, D.	94
Napolitano, A.	118
Narayanan, S.	130
Narayanan, S.V.	57
Nariai, T.	71, 72, 84
Narumiya, S.	63, 95
Natesan, S.	140
Nawroth, P.P.	41
Nedergaard, M.	67, 79
Nehru, B.	113, 114
Neira-Peña, T.	75
Nelson, E.E.	28
Nemoto, E.M.	85

Neubert, J.	84
Neumaier, B.	95
Neumann, J.	103
Neumann, J.T.	26, 56, 57, 130
Neumeister, A.	25
Newcombe, V.	86, 91
Newton, C.	71
Ngai, K.	72
Ni, H.	121
Nie, J.	107
Niemminen, M.	107
Nieraad, S.	81
Nieswandt, B.	73
Nilsson, L.-G.	31
Ning, M.	1, 72, 102, 126
Ning, R.	96
Nishibori, M.	79
Nishimura, N.	11, 41, 93
Nishio, H.	89
Nishioka, R.	66, 124
Nishiyama, Y.	39
Nitta, N.	31
Niu, F.	91
Noble, P.L.	28
Noh, J.	62
Nonaka, H.	90
Nordberg, J.	96
Northoff, G.	84, 85, 89
Nourizade, S.	49
Nyúl-Tóth, Á.	27, 54

O

Obadia, M.	134
Obata, T.	68
Obenaus, A.	21, 55, 78
Obraztsova, O.G.	128
O'Brien, E.	114
O'Brien, J.	111
Obukhov, D.K.	50
Ochi, T.	33, 46, 77, 82, 110, 136
Oda, K.	25, 72, 84
Oda, M.	72
Odano, I.	143
Odnokoz, E.V.	121
Oellerich, M.	115, 117

Ogden, A.	25
Ogden, R.T.	143
Ogle, M.E.	97
Ohkuma, H.	50
Ohl, F.W.	84
Ohno, K.	71
Ohta, Y.	102
Oka, S.	50
Okazawa, H.	66, 88, 89
Okell, T.	98
Okubo, S.	50
Okuchi, K.	56, 87, 97
Okuma, Y.	79
Oláh, O.	125
Olbricht, W.L.	93
Olde, Rikkert, M.G.	135
Olsen, A.K.O.	141
Omote, Y.	93, 102, 119
O'Neill, D.	102
Ono, H.	33, 46, 72, 77, 82, 110, 136
Ono, M.	31, 50, 146
Ono, T.	50, 72
Onoe, H.	146
Orlova, A.	72, 116
Orlowski, P.	100, 102
Orsini, F.	61, 78
Ortolano, F.	78
Ortori, C.A.	54
Osada, T.	69
Osborn, M.F.	70, 80
Oses, M.	112
Østergaard, L.	43
Ostrowski, R.	65, 115
Oswald, M.	113
Ott, P.	139
Otte, G.	41
Otte, W.M.	20, 89, 91, 103
Outtrim, J.	86, 91
Outtrim, J.G.	13
Ouyang, Y.	147
Ouyang, Y.-B.	106
Owen, D.R.	25
Oyama, H.	94
Oyama, N.	27, 68, 135

P

Padovani, A.	85, 116
Paduano, C.Q.	93
Paghera, B.	85, 116
Pai, D.	15
Paisansathan, C.	39, 63, 64
Pakan, J.	43
Palace, J.	52, 100
Palacios, I.	72
Palacios-Prado, N.	111
Palfi, S.	142
Palmier, B.	97
Pampols-Maso, S.	142
Pan, P.-C.	125
Pan, R.	59, 107
Pan, X.	19
Pancioli, A.	98
Pandey, A.	115
Pandi, G.	61
Pang, C.	64
Papadakis, M.	26, 96, 104
Papadopoulos, P.	128
Parent, M.	31
Pareto, D.	144
Park, C.S.	103
Park, E.A.	147
Park, E.-M.	103
Park, H.S.	137
Park, J.	114
Park, J.H.	58, 74, 121
Park, J.W.	69
Park, L.	14
Park, S.	111
Park, Y.M.	132
Parker, T.	54, 94
Parker, T.L.	54
Parrella, S.	61, 78
Parry-Jones, A.	113
Parsey, R.V.	143
Paschen, W.	106
Pascual, B.	87
Passchier, J.	3
Patel, T.	127
Patnaik, R.	54, 55, 57, 81, 122, 128
Patriarca, F.	122

Patriarca, F.M.	122	Piknova, B.	69
Patt, M.	139, 144	Pileggi, A.	109
Paul, S.	49	Pimlott, S.	13
Paulauskas, N.	111	Pina, A.L.	107
Pavlov, S.V.	118, 121	Pinborg, L.H.	137
Pavón Fuentes, N.	117	Pine, D.	28
Pawela, C.	29	Pinelis, V.	83
Payne, S.	98, 100, 102	Ping, L.	125
Payne, S.J.	89, 103	Ping, Z.	110
Pearce, W.J.	74	Pinkernell, S.	63
Peixoto Santos, J.E.	137	Pischiutta, F.	41
Pekcec, A.	21	Planas, A.	21
Pelligrino, D.	39, 63	Planas, A.M.	92
Pelligrino, D.A.	64	Planeta, B.	147
Peng, C.	95	Plath, M.	62
Peng, C.-W.	48	Plesnila, N.	33, 40, 55, 79, 80, 118
Peng, J.	133	Plotkine, M.	97
Peng, S.	13, 31, 139, 143	Po, C.	87
Perego, C.	41	Pócsai, K.	53
Pérès, E.A.	85, 136	Pokrzywa, C.	61
Perez, A.	112	Polak, P.	63, 64
Perez, C.	134	Polara, A.	145
Pérez, R.	75	Pomper, M.	113
Perez-Pinzon, M.	26, 38, 56, 57, 130	Poon, C.	129
Perlman, S.B.	145	Poon, W.S.	72, 73
Peters, D.	144	Popovic, K.	12
Pethe, A.	84	Popp, V.	55
Petit, E.	85, 136	Porambo, M.	75
Petit, F.	12, 145	Porat, D.	47, 61
Petry, K.G.	10	Pourabdollah Nejad, D., S.	88
Pettigrew, L.C.	114	Povlsen, G.K.	56, 61
Petzold, G.C.	46	Powell, E.	74, 75
Peyrin, C.	134	Prabhu, S.P.	90
Peyronneau, M.-A.	145	Pradhan, N.	89
Pham, L.D.	77	Pradillo, J.	73
Phan, J.-A.	140, 147	Pradillo, J.M.	112, 121
Philippe, C.	141	Prat, A.	2
Phillips, A.	75	Preitner, F.	43
Piao, C.	136	Premi, E.	85, 116
Pichler, B.J.	13	Prestopnik, J.	27
Pickard, J.D.	13	Price, D.	74, 75
Pietras, J.	68	Price, J.	3, 6, 18
Pietrini, P.	65	Price, J.C.	139
Piiilgaard, H.	67	Prinz, S.	28, 142
Pike, V.	28	Prinz, V.	107
Pike, V.W.	28	Pu, H.	42, 46, 78, 136

Pu, H.J.	125
Pu, M.	86
Pugh, C.	96
Purohit, M.	80
Purrucker, J.	41
Pushchina, E.V.	50
Putt, M.E.	93

Q

Q., Duong, T.	10
Qi, J.	12
Qian, L.	19, 73, 115, 135
Qiao, J.	94
Qiao, L.	109
Qiao, M.	32, 48
Qiao, X.	96
Qin, L.	20
Qin, M.	140
Qin, P.	85, 89
Qin, T.	107
Qin, X.	60, 106
Qiu, Y.	45, 64
Qu, C.	88
Qu, H.	20, 112
Qu, Y.	82, 103
Quattrocchi, C.C.	118
Quezado, Z.	140
Quillinan, N.	33, 57, 123
Quintela, T.	122
Quittet, M.-S.	103

R

Rabie, T.	104, 126
Rabiner, E.	6, 34, 142
Rabiner, E.A.	25, 35, 140, 142, 147
Radakrishnan, H.	32
Rademacher, L.	28
Rademacher, K.A.	33
Radford, T.	75
Radhakrishnan, H.	103
Rafa-, Zablocka, K.	51
Rallabandi, S.	99
Ramos-Cejudo, J.	128, 132
Randisi, F.	118

Rapp, M.	138
Ratan, R.	17, 20, 77
Ratcliffe, P.	96
Ratib, O.	138
Ratner, C.	28
Rauen, K.	55
Ray, A.	73, 127
Razeghi, S.	116
Razmovski-Naumovski, V.	119
Rbah-Vidal, L.	25, 145
Reader, A.	137
Reader, A.J.	84
Redzic, Z.B.	104, 126
Rehni, A.K.	127, 130, 132
Reilhac, A.	143
Reischl, G.	13
Reiser, G.	83
Reissig, G.	139
Remy, P.	12, 145
Ren, C.	121, 122
Ren, C.-C.	59
Ren, X.	37
Ren, Z.	79, 133
Reneman, L.	13
Rehni, A.K.	122, 130
Revathy, G.	99
Reymann, K.	47
Reymann, K.G.	84, 85, 103
Riabinska, A.	107
Richardson, A.	19
Riek-Burchardt, M.	103
Riganti, L.	41
Rimkute, L.	111
Ringman, J.	91
Rivera, B.	75
Rmeily-Haddad, M.	138, 142
Robbins, D.	127
Roberts, C.	96
Robertson, N.	74, 75
Robin, X.	52
Roche-Labarbe, N.	32
Rockenstein, E.	133
Rockenstein, K.	133
Rodenas-Ruano, A.	26
Rodríguez, Rojas, R.	117
Rodríguez-Frutos, B.	128, 132

Roepstorff, A.	66	Ryu, Y.H.	144, 146
Rohit, B.	73		
Rojas-Mancilla, E.	75		
Rolland, W.	62, 65, 112	S	
Rolland, W.B.	125	Sa, F.	119
Roman, G.C.	87	Sabel, M.	138
Ronaldson, P.T.	2, 27	Sabri, O.	139, 144
Roncaroli, F.	31, 114	Sachdev, R.N.S.	67
Rooney, T.	25	Sacktor, N.	138
Ropchan, J.	25, 147	Sadeghian, S.	53
Rosa-Neto, P.	31, 137	Saez, I.	14
Rose, M.	101	Saggu, R.	46
Rosell, A.	19, 133	Saito, D.N.	89
Rosen, B.R.	34, 105	Saito, N.	33, 46, 72, 77, 82, 94, 110, 136
Rosen, C.L.	128	Sakadžić, S.	94
Rosenbaum, D.M.	129	Sakata, M.	25, 84
Rosenberg, G.A.	2, 27, 106	Salayandia, V.M.	106
Rosser, A.E.	48	Salinas, C.	140, 142, 147
Rossier, J.	44, 126	Salinas-Alaman, A.	86
Rota, Kops, E.	15	Salmina, A.	111
Rotenberg, A.	48	Šámal, F.	94
Rötering, S.	144	Samraj, A.K.	63
Rothman, D.	19, 37, 43	Samson-Himmelstejrna, F.	90
Rothman, D.L.	19, 21, 65	Sanchez, J.-C.	1, 52
Rothstein, J.D.	75	Sanchez, P.	66
Rothstein, L.	98	Sánchez-Catasús, C.	117
Rothwell, N.	73	Sanchez-Franco, F.	119
Rothwell, N.J.	121	Sanchez-Grande, M.	119
Roussel, S.	85, 102, 103, 136	Sander, C.Y.	34
Roy, P.K.	99	Sandhir, R.	109
Royse, C.F.	112	Sandhu, H.K.	82
Rudin, M.	90	Sanganahalli, B.G.	19, 43, 67
Rudolph, A.	139	Sano, H.	49
Rudrapatna, U.	92	Santisakultarm, T.P.	41, 93
Rudrapatna, U.S.	91	Santos, C.	122
Ruge, M.I.	138	Santos, C.R.A.	122
Rüger, H.	41	Santos, M.	122
Rui, Y.	62	Sarkar, P.	88
Rullmann, M.	139	Sarmiento, Soto, M.	69
Rumiantseva, S.	72, 116	Sarracino, D.	72, 102
Rungby, J.	65	Sasajima, T.	50, 70, 72
Ruscher, K.	77	Sasaki, T.	27, 68, 135
Rushforth, D.	48	Saul, I.	57
Ruvinskaya, L.	93	Savchenko, E.	80
Ryabchikova, N.A.	71	Savitz, S.I.	17
Ryder, W.	12	Savli, M.	25, 140

Sawada, M.	66	Searle, G.	34, 137
Sawiak, S.J.	48	Searle, G.E.	15
Schabram, I.	142	Sebastiani, A.	77
Schacht, A.C.	31, 140	Seeberger, P.H.	87
Schaefer, M.	77	Seese, A.	139
Schaefer, P.W.	105	Seevinck, P.	92
Schafer, A.I.	93	Seidel, J.	126
Schäfers, M.	41	Seki, C.	31, 69, 92, 137, 138, 141, 146
Schaffer, C.B.	4, 41, 44, 93	Seki, T.	87
Schaible, E.-V.	77	Sekiguchi, Y.	14
Schallert, T.	80	Selnes, P.	143
Scharrer, E.	110	Selvamani, A.	52
Schechter, A.N.	69	Senbokuya, N.	39
Scheel-Krüger, J.	140	Sengul, B.	97
Scheich, H.	84, 85	Seo, J.-H.	46, 134
Schepmann, D.	144	Seo, M.	114
Scherman, D.	97	Seo, S.K.	132
Scheunemann, M.	144	Seo, Y.	144, 146
Schilling, L.	100	Serres, S.	50, 69
Schindler, S.	90	Setou, M.	33, 136
Schinke, C.	139	Severinovskaya, H.	47
Schirmmacher, E.	137	Seymour, L.	53
Schlegel, F.	90	Shackelford, G.	83
Schmaljohann, J.	28	Shah, G.N.	24
Schmerl, B.	107	Shah, K.S.	12
Schmidt, H.H.	33	Shah, N.J.	15, 138, 144
Schmidt, K.C.	140	Shahrokhi, N.	49
Schmidt, L.	90	Shang, J.	93
Schmidt, M.	12, 15, 34	Shang, X.	101
Schnabel, J.A.	15	Shao, G.	120
Schofield, C.	96	Shao, J.	104, 105, 117
Schönknecht, P.	90	Shao, L.	139
Schousboe, A.	139	Sharma, A.	54, 55, 57, 81, 122, 128
Schreckenberger, M.	144	Sharma, H.S.	54, 55, 57, 81, 122, 128
Schreiber, S.	47	Sharma, N.	114
Schröder, U.H.	85	Sharp, F.R.	1, 35, 51, 63, 98
Schroeder, U.H.	84	Sharp, P.	126
Schroeter, M.	144	Sharp, T.	89, 90
Schröter, A.	90	Shats, I.	75
Schumacher, T.	46	Sheerin, F.	98
Schwab, P.	66, 93	Shen, F.-P.	65
Schwab, S.	55, 61	Shen, H.	77
Schwartz, F.	138	Shen, J.	53, 54
Schwarzmaier, S.	79, 118	Shen, L.	130
Schwarzmaier, S.M.	55	Shen, M.-Y.	125
Scranton, V.	100	Shen, Q.	104

Shen, S.	82	Sidorova, Y.V.	128
Shen, X.	124	Siesjo, B.K.	97
Shen, Y.	125	Silina, E.	72, 116
Sheng, H.	79, 106	Silpanisong, J.	74
Sherazi, N.	81	Silva, A.C.	4, 13, 53, 69, 90
Sherchan, P.	112	Silver, R.T.	93
Sherman, J.C.	80	Silverman, S.	72
Shi, F.-F.	59	Simmons, C.	91, 97, 127
Shi, H.	104	Simmons, J.W.	21
Shi, J.	21, 75, 121	Simon, V.	113
Shi, J.Z.	129	Simonsen, M.	34, 140
Shi, L.	66	Sindji, L.	103
Shi, M.	98, 117	Singh, A.	78
Shi, R.	104	Singh, J.	77, 79
Shi, R.X.	127	Singh, N.	63, 100
Shi, Y.	83, 86, 93	Singh, T.G.	122, 127, 130, 132
Shi, Z.	72, 87, 139	Singhal, A.B.	105
Shiau, C.-Y.	47	Sinha, A.K.	89
Shih, Y.-Y.I.	13, 19, 29, 93, 99, 104	Siu, D.	73
Shiino, A.	90	Skaddan, M.	25
Shimada, H.	138	Skadden, M.	12
Shimada, N.	50	Skaper, S.	21
Shimamura, N.	50	Skaper, S.D.	114
Shimizu, A.	137	Skeberdis, V.A.	111
Shimizu, K.	57, 123	Skoda, R.C.	93
Shimizu, M.	91	Skoloudik, D.	94
Shimizu, T.	33, 91	Skretting, A.	143
Shimodozono, M.	71, 135	Slack, E.	41
Shimosegawa, E.	84, 147	Slack, R.	125
Shin, H.K.	109, 110, 114	Slane, N.	97
Shin, J.A.	103	Slosky, L.M.	27
Shinde, S.	101	Slusarczyk, J.	51
Shindou, A.	99	Smith, C.B.	140
Shinotoh, H.	138	Smith, D.	79, 145
Shirakashi, Y.	90	Smith, R.	86
Shkoda, O.S.	120	Snyder, A.Z.	15
Shoblock, J.	145	Sobesky, J.	90
Shrestha, S.	28	Sobey, C.	100
Shu, H.	13	Sobey, C.G.	96, 99, 120, 131
Shubel, E.	26	Soejima, Y.	131
Shukuri, M.	146	Sohrabji, F.	52
Shulman, R.G.	65	Sokolik, E.P.	122, 123
Shuttleworth, C.W.	14	Soleimani, M.	59
Siaposht, Khachaki, A.	49	Som, A.T.	126
Sibson, N.	10, 43, 49, 50, 52, 53	Son, Y.-J.	131
	69, 89, 90, 113, 114	Song, A.	132

Song, C.	20, 112	Strauß, M.	90
Song, D.	92	Strong, R.	39
Song, F.	25, 109	Stroobants, S.	12, 15, 34, 146
Song, I.-U.	84	Strukova, S.	83
Song, J.	104	Stufflebeam, S.	80
Song, J.H.	113	Stukanyova, M.E.	50
Song, M.	104, 115, 133	Sturm, W.	15
Song, S.	39	Su, N.	79
Sorensen, D.	42	Su, Y.	15
Sørensen, J.C.	31	Su, Z.	31, 114
Sørensen, M.	139	Suarez, J.	63
Soucy, J.-P.	31, 137	Suarez, R.O.	90
Southard, T.L.	93	Sudo, R.	14
Spain, A.	49, 89, 90, 113	Sugawara, T.	59, 70, 128
Spann, B.M.	87	Sugiyama, Y.	68
Specchio, N.	118	Suh, Y.-H.	45
Spencer, S.	100	Suhara, T.	6, 31, 50, 138, 141, 146
Spiegel, R.	118	Suk, K.	114
Spies, M.	140, 141	Sule, M.	32
Spratt, N.	102	Sullivan, D.K.	127
Spratt, N.J.	95	Sullivan, J.M.	143
Sprengel, R.	83	Sumiyoshi, A.	90
Srinivasan, V.J.	103	Sun, B.	37, 94
Staelens, S.	12, 15, 34, 146	Sun, B.-L.	26, 64, 65, 104, 111, 117, 121
Stamova, B.	63, 98	Sun, B.-M.	141
Staniloiu, A.	140	Sun, D.	38, 74, 78, 83, 136
Stanisz, G.	100	Sun, F.	132
Staykov, D.	55	Sun, F.-Y.	112
Stefanovic, B.	100	Sun, G.-H.	39, 61
Steimer, T.	28	Sun, H.-W.	59, 69
Steinbach, J.	144	Sun, J.	49, 64, 100, 124, 128, 135
Stejskal, D.	52	Sun, W.	130
Stenbaek, D.S.	28	Sun, X.	75, 112
Stepanov, V.	12, 145	Sun, X.J.	129
Stetler, R.	109, 119	Sun, X.-J.	33
Stetler, R.A.	104, 105	Sun, Y.	53
Stewart, W.	13	Sun, Y.-Y.	32, 83, 126, 129
Stittsworth, S.	144	Sung, J.H.	63
Stöber, F.	85	Sünwoldt, J.	59
Stocchetti, N.	61, 78	Suomi, S.J.	28
Stoffel, M.	145	Suryana, E.	74
Stoffels, G.	138	Sutherland, B.A.	43, 104, 105, 126
Stojanovic, A.	113	Sutin, J.	93
Stokol, T.	93	Suwanpraser, K.	67
Stork, C.J.	60	Suwanprasert, K.	52, 56
Stowe, A.M.	26, 70	Suzuki, M.	84

Suzuki, N. 14, 27, 69
 Suzuki, S. 87
 Svarer, C. 37, 137
 Svenningsson, P. 28, 31
 Svestak, M. 52
 Swanson, D. 145
 Sweazey, R. 47
 Sweazey, R.D. 56, 95
 Symmonds, M. 100
 Syvänen, S. 53
 Szabolcs, L. 145
 Szczesny, E. 51
 Szokol, K. 83

T

Tachtsidis, I. 74, 75
 Tada, A. 88
 Tada, Y. 87
 Tahon, F. 68
 Tajima, Y. 69, 92, 137
 Takagaki, M. 14, 67, 107
 Takahashi, M. 72, 84
 Takahashi, S. 72
 Takahashi, Y. 59
 Takahata, K. 141
 Takano, A. 145
 Takano, H. 89, 138, 141
 Takao, Y. 100
 Takayanagi, S. 82
 Takemori, H. 135
 Takenaka, K. 82, 105
 Takeuchi, H. 88, 90
 Taki, Y. 90
 Takizawa, S. 89, 108
 Takuwa, H. 14, 27, 68, 69, 92, 137
 Talalayenko, A.N. 118
 Tamiya, T. 50, 99
 Tan, F.C.C. 83
 Tan, Z. 128
 Tanahashi, N. 49
 Tanaka, Y. 71, 72
 Tang, C. 31, 139
 Tang, G. 14, 46, 51, 53, 132
 Tang, J. 62, 63, 65, 75, 112, 115, 131
 Tang, Q.-S. 92

Tang, R. 133, 146
 Tang, S.P. 140, 147
 Tang, W. 83
 Tang, X.N. 99
 Tang, Y. 14, 20, 46, 94, 133, 136
 Tanigaki, K. 90
 Taniguchi, J. 14, 69, 92, 137
 Taniguchi, T. 145
 Tanishita, K. 14
 Tao, L. 59, 80
 Tao, T. 60, 106
 Tao, Y. 132
 Tao, Z. 81
 Taoka, T. 56, 87
 Tarabar, S. 25
 Tarumi, T. 70
 Tasi, K. 78
 Tatsumi, M. 147
 Tavares, A. 13
 Tavares, G. 122
 Tavitian, B. 41
 Taylor, K.W.E. 131
 Tee, Y.K. 98
 Tellmann, L. 15
 Temesvári, P. 125
 ten, Haken, B. 107
 Teng, G.-J. 92, 101
 Teng, M.M.H. 84, 88, 91
 Teng, Z. 49
 Teo, J.D. 75
 Teramoto, N. 15
 Tercero, J. 68
 Terpolilli, N. 79
 Terpolilli, N.A. 80
 Terzi, M.Y. 107
 Teshigawara, K. 79
 Thakor, N.V. 93
 Thal, D.R. 11
 Thal, S. 77
 Thal, S.C. 80
 Thayer, M. 72, 102
 Thiagarajah, R. 95
 Thirunavukkarasu, S.V. 139
 Thomas, D. 74, 75
 Thompson, B.J. 27
 Thompson, J. 27

Thompson, J.F.	106	Tsukamoto, Y.	108
Thomsen, G.	137	Tsytsarev, V.	93
Thomsen, K.	81, 83	Tuor, U.I.	32, 48, 80
Thomsen, K.J.	67	Turck, N.	1, 52
Thorens, B.	43	Turkheimer, F.	146
Thyalan, K.	139	Turkheimer, F.E.	25, 31, 114
Tian, C.	132, 133	Turner, R.	90
Tian, F.	101, 102	Turner, R.C.	128
Tian, M.	25, 141	Turner, R.J.	105
Tian, T.	121	Turola, E.	41
Tiepolt, S.	139	Tyagi, N.	123
Timmermann, L.	138	Tziortzi, A.C.	34, 142
Ting, S.-M.	61		
Tinianow, J.N.	147	U	
Tiwari, Y.V.	104	Uechi, G.	101
Toarmino, C.R.	90	Ulbrich, C.	46
Toborek, M.	126	Uluc, K.	74
Todd, S.E.	69	Unekawa, M.	27, 69
Tokarev, J.	96	Urban, A.	126
Toku, T.	137	Urrutia, C.	62
Tokunaga, M.	31, 50, 146		
Tomasi, D.	42	V	
Tomimoto, H.	5	Vafaei, M.S.	66
Tomita, Y.	14, 27, 69	Vajkoczy, P.	107
Tong, S.	93	Valable, S.	85, 136
Tong, X.-K.	128, 129, 135	Valdés, C.	92
Tonkyn, J.	142	Valdes-Sosa, P.	117
Torii, S.	110	Valente, E.M.	118
Toriumi, H.	27, 69	Valero, R.	68
Tóth-Szűki, V.	125	Valette, J.	82
Tournier, B.B.	28	Vallet, P.	28
Toussay, X.	43, 69	Vallis, K.	53
Toutain, J.	85, 103, 136	Valonen, P.	80
Touzani, O.	102, 103	Van Allen, N.R.	125
Toyama, K.	71	Van, Camp, N.	12, 25, 142, 145
Toyohara, J.	25, 84	van der Aart, J.	142
Trabold, R.	55	van der Kouwe, A.	80
Trampel, R.	90	van der Marel, K.	13, 20, 89, 91, 103
Traystman, R.	5, 9, 33, 57, 123	van der Toorn, A.	91, 92
Tredwell, M.	114	van Essen H.	33
Tretzel, S.	62	van Leyen K.	21
Troprés, I.	68	van Meer, M.P.	20, 103
Trueman, R.C.	48	Van Nostrand, W.E.	40
Tsai, L.-J.	52	van Putten, M.J.A.M.	107
Tsipis, C.	75		
Tsugita, N.	105		

Van Tilborg, G.A.	91
Vang, K.	66
Vannucci, S.	38
Varaksin, A.A.	50
Vardy, T.C.	71
Varga, N.	53
Váró, G.	54
Varoqueaux, N.	136
Varrone, A.	31, 143
Veenith, T.	13, 91
Veenith, T.V.	86
Végh, A.G.	54
Vekrellis, K.	26
Veltkamp, R.	41, 113
Vemuganti, R.	46, 61, 79
Ventikos, Y.	102
Verderio, C.	41
Verdolotti, T.	118
Verhaeghe, J.	12, 15, 34, 137, 146
Verma, A.	88
Vernaleken, I.	28, 142
Vernon, A.	91
Verro, P.	98
Vest, R.	123
Vial, C.	87
Vial, F.	62, 113
Viel, T.	41
Villalobos, A.	12
Villemagne, V.L.	18
Vilstrup, H.	139
Vink, R.	105
Vinters, H.	11
Vitiello, G.	118
Volbers, B.	55
Vosler, P.	119
Vosler, P.S.	104
Vrachimis, A.	41

W

W. Blixt, F.	95
Waagepetersen, H.	139
Wachsmuth, L.	41
Wadsak, W.	25, 140, 141
Wagner, D.-C.	88
Wakai, T.	109, 124

Wake, H.	38, 79
Walberer, M.	95
Wallace, E.M.	131
Walter, B.	42
Wan, J.	87
Wan, Q.	132
Wand, G.	141
Wang, A.	122
Wang, B.	76, 123
Wang, C.	49, 94
Wang, C.-C.	87
Wang, D.	61, 115
Wang, D.J.	91
Wang, D.J.J.	86
Wang, G.	14, 42, 46, 64, 78, 81, 136
Wang, G.-J.	144
Wang, H.	19, 84, 104
Wang, J.	13, 20, 25, 31, 67, 133, 143
Wang, J.-X.	33
Wang, J.-Y.	48, 64, 112
Wang, K.	96, 123
Wang, L.	41, 52, 59, 60, 100, 106
Wang, M.	67
Wang, P.	26, 106
Wang, P.-F.	115
Wang, Q.	52, 64, 97, 123
Wang, R.	66, 82, 112, 125, 138
Wang, S.	20, 105, 107, 112 120, 127, 135, 143
Wang, T.	59
Wang, W.	66, 79
Wang, X.	16, 21, 26, 42, 64, 81 86, 94, 96, 102, 105, 106 , 121, 123, 124, 127, 129, 132
Wang, Y.	14, 20, 41, 46, 51 52, 59, 77, 110, 113 117, 130, 132, 133, 136, 139
Wang, Y.-C.	115
Wang, Y.-Y.	60
Wang, Z.	115
Wanner, I.B.	42
Ward, W.	94
Warfield, S.K.	90
Warfvinge, K.	95
Warn, P.	73
Warner, D.S.	79

Watabe, H.	147	Williamson, D.J.	48
Watabe, T.	147	Willoch, F.	143
Watanabe, A.	27, 135	Willuweit, A.	144
Watanabe, S.	147	Wilson, M.A.	75
Watanabe, T.	56, 87, 90	Wimberley, C.	143
Waterhouse, R.N.	12, 25	Windisch, M.	120
Weaver, J.	53	Wingler, K.	33
Weber, B.	43	Winkler, F.	113
Weekes, A.A.	25, 142	Winslow, J.T.	28
Wegener, G.	34, 140	Winter, S.	133
Wehrl, H.F.	13	Winterdahl, M.	140, 145
Wei, F.	115	Winz, O.	28, 142
Wei, L.	58, 76, 78, 79, 96	Witgen, B.M.	67
	97, 100, 104, 124, 131, 133	Witzel, T.	34
Wei, Z.	78, 97, 133	Wojciechowski, S.	80
Weichert, J.	145	Wolahan, S.M.	42
Weigel, U.	68	Won, M.-H.	58, 74, 121
Weinstein, G.B.	71	Wong, D.	28, 121, 141
Weinzierl, N.	100	Wong, D.F.	137, 138, 145
Weiser, M.	42	Wong, G.K.C.	72, 73, 135
Weissfeld, L.A.	139	Wong, P.	45
Welch, R.	79	Wood, C.M.	112
Wells, A.J.	105	Wood, M.J.	26
Wells, L.	147	Wood, T.C.	91
Wendland, K.	59	Woodbury, A.	76
Weng, S.	41, 52	Wright, C.B.	56
Weng, Z.	105, 109	Wright, K.	112
Wenzel, B.	144	Wright-Williams, M.	52
Werner, C.	77	Wu, B.	61, 114
Westphal, R.	91	Wu, C.-C.	47
Wey, H.-Y.	34	Wu, G.	105
White, L.	94	Wu, J.	92, 117
Widdop, R.E.	120	Wu, L.	105
Wiebking, C.	84, 85	Wu, O.	80, 105
Wieloch, T.	17, 77	Wu, P.	13, 31, 143
Wienhard, K.	95	Wu, S.	143
Wiesmann, M.	135	Wu, T.T.	127
Wiklund, L.	57	Wu, W.	70, 93, 94
Wilhelm, I.	27, 54	Wu, X.	130
Willfarth, W.	55	Wu, Y.	12
Williams, C.	13	Wu, Y.-B.	92
Williams, G.	91	Wu, Z.	21, 110
Williams, J.M.	74	Wu, Z.-Z.	95
Williams, S.	113	Wunder, A.	85
Williams, S.C.	91, 97, 127	Wünsch, B.	144
Williams, W.	147	Wyckhuys, T.	12, 15, 34, 146

Wyffels, L. 12, 15, 34, 146
 Wyss, M. 43

X

Xi, G. 5, 39, 50, 63
 Xi, L. 117
 Xi, Q. 25
 Xia, W. 104, 105, 117
 Xia, Y. 82
 Xia, Z. 140
 Xiang, J. 54, 129
 Xiao, H. 117
 Xiao, X. 67
 Xiao, Y. 41
 Xichang, L. 64
 Xie, C. 13, 81
 Xie, F.-M. 65
 Xie, L. 132
 Xie, R. 26, 106
 Xie, W. 120
 Xie, X. 84
 Xilouri, M. 26
 Xin, L. 123
 Xin, Q. 101
 Xing, C. 106, 126
 Xing, J. 98
 Xing, Y. 110
 Xiong, H. 136
 Xiong, J. 86
 Xiong, L. 20, 96, 97, 132
 Xiong, R.-P. 115
 Xiong, X. 97, 106, 120
 Xiong, Y. 42, 80, 124
 Xiong, Z.-G. 59, 69
 Xu, B. 92, 106, 120
 Xu, D. 132, 134
 Xu, E. 130
 Xu, G. 106
 Xu, H. 39, 63, 64, 107
 Xu, H.-X. 60
 Xu, J. 58, 132
 Xu, K. 57, 75
 Xu, L. 106
 Xu, Q. 135
 Xu, T. 51, 134

Xu, W.-D. 71, 73, 147
 Xu, Y. 19, 38, 52, 57, 70
 73, 91, 95, 110, 112, 115
 123, 135
 Xu, Z. 56
 Xu, Z.C. 56
 Xue, J.-H. 32

Y

Yagi, S. 91
 Yagi, T. 39, 91, 109, 124
 Yagita, Y. 27, 68, 135
 Yakushev, I. 144
 Yalcin, N. 97, 107
 Yamada, M. 141
 Yamada, S. 88
 Yamada, T. 82
 Yamagata, H. 46
 Yamamoto, A. 15, 137
 Yamamoto, S. 128
 Yamamoto, Y. 106
 Yamashita, T. 93, 100, 101
 102, 119, 134
 Yamauchi, H. 30
 Yamauchi, M. 84
 Yamazato, M. 66, 124
 Yan, B.C. 58, 121
 Yan, F. 82, 101, 107, 119, 121, 125
 Yan, H. 130
 Yan, H.Q. 78
 Yan, J. 64, 96, 117
 Yan, L. 91
 Yan, L.-R. 92
 Yan, M. 81
 Yan, S. 87
 Yan, T. 96
 Yan, W. 110
 Yanagimachi, T. 89
 Yanagisawa, T. 70
 Yanaka, H.T. 89
 Yanev, P. 92
 Yang, D. 32, 56, 121, 126
 Yang, G.-Y. 1, 9, 14, 20, 33, 41
 46, 51, 52, 53, 130
 132, 133, 134, 136

Yang, H.	127, 135	Yu, S.-P.	76
Yang, L.	79, 96	Yu, X.	49, 60
Yang, M.-F.	26, 65, 111, 117	Yu, Y.	67
Yang, Q.-W.	115	Yu, Z.	81, 123, 129
Yang, S.	62	Yuan, F.	14
Yang, W.	58, 64, 106, 132	Yuan, H.	26, 65, 83, 107
Yang, X.	21, 96, 119, 124	Yuan, L.	93
Yang, X.-Y.	26	Yuan, T.	117
Yang, Y.	12, 77, 106, 131	Yuan, Y.	13, 86
Yang, Y.R.	106	Yue, C.	86, 113
Yang, Z.	76	Yue, F.	146
Yang, Z.-J.	33, 76	Yukami, T.	27, 68, 135
Yankam Njiwa, J.	146	Yunoki, T.	119
Yankam Njiwa, J.A.	87	Yurchenko, D.M.	120
Yarygin, K.	134	Yushmanov, V.E.	99
Yaseen, M.A.	94		
Yauzina, N.	111	Z	
Ye, K.	74		
Ye, W.	138	Zacharek, A.	96
Ye, Z.H.	129	Zafonte, R.	80
Yen, C.C.-C.	90	Zahedi, Asl, S.	49
Yenari, M.	5, 38, 119	Zahid, S.	115, 117
Yenari, M.A.	99, 124	Zaidi, H.	138
Yi, K.S.	47, 51	Zametkin, A.	140
Yigitkanli, K.	21	Zandt, B.-J.	107
Yin, K.	19, 110	Zangari, R.	61, 78
Yodh, A.G.	66, 93	Zanier, E.R.	41, 61
Yokota, T.	81	Zanni, G.	118
Yonas, H.	85	Zarate, C.	28
Yoon, B.-W.	62	Zaro Weber, O.	90
Yoon, H.J.	86	Zarruk, J.G.	111
Yoshino, M.	94	Zasadny, K.	12, 25
Yoshioka, H.	39, 109, 124	Zekry, D.	138
You, J.	13	Zelek-Molik, A.	51
Younce, J.R.	13	Zeng, L.	41, 52
Yu, A.C.H.	97	Zeng, X.	84
Yu, E.S.	97	Zeng, Z.	59, 69
Yu, G.	25	Zeniya, T.	15, 137
Yu, H.	13, 86, 105, 131, 143	Zerbi, V.	135
Yu, H.-D.	125	Zhai, T.	81
Yu, J.	73	Zhai, X.	129
Yu, L.	59, 135	Zhan, L.	130
Yu, M.	57	Zhan, X.	51, 63, 98
Yu, Q.	104, 124	Zhang, A.	81
Yu, S.-J.	77	Zhang, B.	19
Yu, S.P.	58, 78, 79, 104, 124, 131, 133	Zhang, C.	20, 67, 130, 132

Zhang, F.	26, 37, 65, 98 107, 109, 110, 117	Zhao, L.-R.	20, 37, 78, 136
Zhang, G.	25	Zhao, M.-M.	60
Zhang, H.	25, 32, 56, 106, 129, 141	Zhao, Q.	133
Zhang, H.-T.	32	Zhao, S.	20, 101, 106, 112
Zhang, H.-W.	141	Zhao, W.	94
Zhang, J.	33, 39, 40, 62, 65, 70 78, 80, 82, 112, 115, 117 125, 131, 134, 136, 138	Zhao, X.	39, 61
Zhang, J.H.	63, 75, 78, 96, 117, 125	Zhao, Y.	100, 107, 117, 125, 130
Zhang, K.	15	Zhao, Y.-B.	61
Zhang, L.	12, 25, 46, 55, 57, 59, 70, 74 94, 105, 111, 119, 125, 133	Zhao, Y.Y.	58
Zhang, L.-L.	125	Zhen, G.	146
Zhang, L.-Q.	119	Zhen, X.	81, 98
Zhang, M.	12, 57, 59, 73, 80 101, 107, 112	Zheng, C.-B.	117
Zhang, M.R.	25	Zheng, J.	114, 132, 133, 134
Zhang, M.-R.	146	Zheng, P.	60
Zhang, N.	88, 107	Zheng, W.	19
Zhang, P.	104	Zheng, W.-X.	60
Zhang, Q.	112	Zheng, Y.	97, 107
Zhang, Q.-W.	112	Zheng, Z.	99
Zhang, R.	26, 66, 70	Zhong, C.	19
Zhang, S.	51, 88, 112, 134, 136, 138	Zhou, C.	94, 96
Zhang, T.	33, 85, 104	Zhou, H.	130
Zhang, W.	32, 46, 67, 78, 107, 117, 136	Zhou Heng, Y.	75
Zhang, W.T.	125	Zhou, J.	12, 41, 129
Zhang, X.	19, 49, 56, 72, 73, 78, 113	Zhou, J.-N.	94
Zhang, X.-Y.	121	Zhou, L.	92
Zhang, Y.	28, 42, 80, 82, 96, 109, 115 124, 131, 134, 141	Zhou, N.	54, 129
Zhang, Y.-B.	26, 54	Zhou, P.	14
Zhang, Z.	13, 81, 86, 135	Zhou, Q.Q.	51, 54, 56
Zhang, Z.G.	42, 80, 124	Zhou, S.-Y.	125
Zhang, Z.-W.	32	Zhou, V.	12
Zhang, Z.-Y.	26, 65, 111, 117	Zhou, W.	67, 101, 113
Zhao, B.	67, 81	Zhou, X.	41
Zhao, B.-Q.	107	Zhou, Y.	126, 138
Zhao, C.	20, 112	Zhou, Z.Y.	62, 125
Zhao, G.	98, 117	Zhou, Z.-Y.	119
Zhao, H.	26, 81, 82, 97, 106, 111 120, 121, 125, 130	Zhu, B.	19, 60, 134
Zhao, J.	81, 129, 141	Zhu, F.	92
Zhao, K.	64	Zhu, G.	131
Zhao, L.	114	Zhu, K.	127
		Zhu, L.	69, 146
		Zhu, S.	106
		Zhu, T.	74, 75
		Zhu, W.	51, 92, 134
		Zhu, X.	19, 107, 135
		Zhu, X.-H.	87, 96
		Zhu, Y.Z.	45

Zhu, Z. Y.	127	Zoerle, T.	61
Zhuang, J.	129	Zoghbi, S.	28
Zhumadilov, A.	61	Zuhayra, M.	125
Zhuo, L.	91	Zukin, R.S.	26
Zientek, F.	139	Zuo, C.	13, 31, 143
Zille, M.	107	Zuo, C.-T.	141, 147
Zilles, K.	144	Zuo, Z.	96, 131
Zinnhardt, B.	41	Zvenigorodsky, V.	47
Zirak, P.	68, 108		
Zischka, H.	33		
Zlotnik, A.	47, 61		
Zmudka, J.	143		

