

PROGRAM

MONDAY, December 3—7:00 PM

SESSION 1 GLIA-NEURON INTERACTIONS I

Chairperson: **Michael Salter**, Hospital for Sick Children, Toronto, Canada

Astrocyte regulation of neuronal glutamate receptors

Nicola J. Allen [25'+10']

Presenter affiliation: Salk Institute, La Jolla, California.

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Activation of astrocytes in hippocampus induced a decreased fear memory in rats

Yu-Lan Li, Li-Xuan Li, Jin-Tao Wu, Li-Ming Qin, Yan-Qin Yu, Shumin Duan [25'+10']

Presenter affiliation: Zhejiang University School of Medicine, Hangzhou, China.

2

Delayed astrocyte morphogenesis drives dysfunctional synaptogenesis in developing rodent brain with lengthy general anesthesia

Bin Zhou, Lingmin Chen, Ruotian Jiang [10'+5']

Presenter affiliation: West China Hospital of Sichuan University, Chengdu, China.

3

Ultrastructure of an abundant astrocyte Rab6A+ organelle system for reelin and gliotransmitter release

Robert Brunkhorst, Hans Bock, Fabian Keil, Linda Spieß, Amin Derouiche [10'+5']

Presenter affiliation: Goethe-University, Frankfurt , Germany.

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TUESDAY, December 4—9:00 AM

KEYNOTE SPEAKER

Introduction by: **Shumin Duan**, Zhejiang University School of Medicine, Hangzhou, China

Lymphatics in the CNS and their role in neurological diseases

Jonathan Kipnis [40'+10']

Presenter affiliation: University of Virginia, Charlottesville, Virginia. 5

TUESDAY, December 4—10:00 AM

SESSION 2 DEVELOPMENT OF GLIA

Chairperson: **Helmut Kettenmann**, Max Delbrück Center for Molecular Medicine, Berlin, Germany

Transcriptional control of astrocyte function in the brain

Benjamin Deneen [25'+10']

Presenter affiliation: Baylor College of Medicine, Houston, Texas. 6

Coffee / Tea Break

Repopulated microglia are solely derived from the proliferation of residual microglia after acute depletion

Yubin Huang, Zhen Xu, Yanxia Rao, Bo Peng [25'+10']

Presenter affiliation: Shenzhen Institutes of Advanced Technology, Shenzhen, China. 7

Molecular and cellular mechanisms of astrocyte development in CNS

Juyeon Jo, Hyun Kyoung Lee [10'+5']

Presenter affiliation: Baylor College of Medicine, Houston, Texas; Texas Children's Hospital, Houston, Texas. 8

Temporospatial specification of astrocytes in developing forebrain

Wentong Hong, Zhonggan Ren, Pifang Gong, Shumin Duan, Song Qin [10'+5']

Presenter affiliation: Fudan University, Shanghai, China. 9

Visualization of specific mRNAs and lncRNAs within morphological context in the central and peripheral nervous systems using the RNAscope® in situ hybridization assay

Zhenzhen Fu, Tangping Li, Zhifu Zhang, Hongzhe Sun, Morgane Rouault, Xiao-Jun Ma, Na Li [20'+5']
Presenter affiliation: Advanced Cell Diagnostics Inc., Newark, California.

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TUESDAY, December 4—2:00 PM

SESSION 3 POSTER SESSION

Transdifferentiation of reactive astrocytes into functional neurons in injured brain of mouse and non-human primate causes functional recovery in spinal cord injury model

Heeyoung An, Hye-Lan Lee, Doo-Wan Cho, Jinpyo Hong, Junsung Woo, Jaekwang Lee, Young-su Yang, Su-Cheol Han, Yoon Ha, C. Justin Lee

Presenter affiliation: KU-KIST Graduate School of Converging Science and Technology, Seoul, South Korea; Institute for Basic Science, Daejeon, South Korea; Korea Institute for Science and Technology, Seoul, South Korea.

11

A novel discovery of DCX nucleocytoplasmic transport facilitated by GDNF in gliomas via the classical RanGTPase pathway

Abiola A. Ayanlaja, DianShuai Gao

Presenter affiliation: Xuzhou Medical University, Xuzhou, China.

12

Characterization of adult microglia cell cultures. Origin of highly proliferative cells

Eva Cano, Alba C. Pérez-Escobar, Andrés Fernández, Patricia Velasco, Isabel Liste, Isabel Cortegano, Belén de Andrés, María Luisa Gaspar

Presenter affiliation: Instituto de Salud Carlos III (ISCiii). Chronic Diseases Programme (UFIEC-CROSADIS), Majadahonda. Madrid, Spain.

13

Identification of neuronal autophagy regulators with iKAP and THANATOS

Leilei Chen, Yongbo Wang, Juxian Song, Min Li, Yu Xue, Junxia Xie
Presenter affiliation: Qingdao University, Qingdao, China; Hong Kong Baptist University, Hong Kong.

14

Hippocampal astroglial p75NTR induces cognitive dysfunction through impairing synaptic plasticity in controlled cortical impact mice

Mingming Chen, Jinli Geng, Ao Li, Hong Liao

Presenter affiliation: China Pharmaceutical University, Nanjing, China. 15

Astrocytic proBDNF and tonic GABA distinguish active versus reactive astrocytes in hippocampus

Heejung Chun, Heeyoung An, Jiwoon Lim, Junsung Woo, Jaekwang Lee, Hoon Ryu, C. Justin Lee

Presenter affiliation: Korea Institute of Science and Technology (KIST), Seoul, South Korea. 16

Disturbance of extracellular K⁺ buffering in neurodegenerative disease models and its relation with astrogliosis

Fengfei Ding, Qian Sun, Sisi Peng, Qiwu Xu, Wei Wang, Maikn Nedergaard

Presenter affiliation: Tongji Hospital, Huazhong University of Science and Technology, Wuhan, China; University of Rochester Medical Center, Rochester, New York. 17

The Daam2-VHL axis as a potential therapeutic target for white matter injury

Xiaoyun Ding, Juyeon Jo, Carlo Cristobal, Hyun Kyoung Lee

Presenter affiliation: Baylor College of Medicine, Houston, Texas; Texas Children's Hospital, Houston, Texas. 18

GCN2 plays a protective role in pharmacological induced demyelination

Paulina Falcón, Alvaro Brito, Marcela Escandon, Carolina Jerez, Soledad Matus

Presenter affiliation: Fundación Ciencia & Vida, Santiago, Chile. 19

Human pluripotent stem cell derived astrocytes and microglia for developmental and neurological disease study

Jing Fan, Anxin Wang, Tan Zou, Qianyun Liu, Jinchong Xu

Presenter affiliation: Hopstem Bioengineering Co., Ltd., Hangzhou, China. 20

Astrocytes-derived TLR4 mediated neuronal pCREB-MCU activity in the brainstem periaqueductal gray in chronic morphine physical withdrawal

Shuanglin Hao, Shue Liu, Hyun Yi, Qiaofeng Liu, Takafumi Iida, Gerald Z. Zhuang, Sabita Roy, Roy Levitt

Presenter affiliation: University of Miami, Miami, Florida. 21

<p>Preoperative image based prognostication using 11C-acetate PET/CT, and MRI with contrast enhancement in patients with cerebral gliomas Dongwoo Kim, <u>Hae Young Ko</u>, Se Hoon Kim, Jong Hee Chang, Mijin Yun Presenter affiliation: Yonsei University College of Medicine, Seoul, South Korea.</p>	22
<p>VNUT-mediated microglial ATP exocytosis contributes to neuroprotection in the ischemic brain <u>Ha P. Le</u>, Yuri Hirayama, Kenji F. Tanaka, Schuichi Koizumi Presenter affiliation: University of Yamanashi, Yamanashi, Japan.</p>	23
<p>MiR-409-3p and MiR-1896 co-operatively participate in IL-17-induced inflammatory cytokine production in astrocytes and pathogenesis of EAE Mice via targeting SOCS3/STAT3 signaling <u>Xiaomei Liu</u>, Feng Zhou, Ying Yang, Weixiao Wang, Liping Niu, Dongjiao Zuo, Xiangyang Li, Hui Hua, Bo Zhang, Yanbo Kou, Jingjing Guo, Fanyun Kong, Wei Pan, Dianshuai Gao, Jessica M. Meves, Hong Sun, Yingwei Wang, Renxian Tang Presenter affiliation: Xuzhou Medical University, Xuzhou, China.</p>	24
<p>Microglial regional diversity in Parkinson's disease and its molecular mechanism <u>Yang Liu</u>, Le Wang, Weiqi Wu, Xinyue Chen, Pengyuan Zhang, Tianshu Du, Ting Zhang, Xiaomin Wang Presenter affiliation: Capital Medical University, Beijing, China; Key Laboratory of Neurodegenerative Disorders of the Ministry of Education, Beijing, China.</p>	25
<p>Cathepsin C aggravates neuroinflammation—The culprit for chronic inflammation? <u>Jianmei Ma</u> Presenter affiliation: Dalian Medical University, Dalian, China.</p>	26
<p>The sources and the mechanism of Cathepsin C induces the production of chemokines in neuroinflammation Xinnan Zhao, <u>Jianmei Ma</u> Presenter affiliation: Dalian Medical University, Dalian, China.</p>	27
<p>TrpML dependent astrocyte near membrane Ca²⁺ transients limit trachea growth in central nervous system <u>Zhiguo Ma</u>, Marc Freeman Presenter affiliation: Oregon Health & Science University, Portland, Oregon.</p>	28

Cell-specific translational profiling in the mouse model of ischemic stroke

Jialuo Mai, Zhi Wang, Shu-ling Peng, Zhiyi Zuo, Maojin Yao

Presenter affiliation: Sun Yat-Sen Memorial hospital, Sun Yat-Sen University, Guangzhou, China.

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Aberrant tonic inhibition of dopaminergic neuronal activity causes motor symptoms in acute models of Parkinson's disease

Min-Ho Nam, Jun Young Heo, Hyung Ho Yoon, Jeongyeon Kim, Yu Jin Hwang, Woojin Won, Dong Ho Woo, Ji Ae Lee, Hyun-Jung Park, Seonmi Jo, Min Joung Lee, Kyung I. Kim, Sue H. Huh, Jae Y. Jeong, Neil W. Kowall, Hoon Ryu, Sang Ryong Jeon, C. Justin Lee

Presenter affiliation: Korea Institute of Science and Technology, Seoul, South Korea; Kyung Hee University, Seoul, South Korea.

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Ultrasonic neuromodulation via astrocytic TRPA1

Soo-Jin Oh, Jung Moo Lee, Hyun-Bum Kim, Jungpyo Lee, Sungmin Han, Jin Young Lee, Wuhyun Koh, Jea Kwon, Eun-Sang Hwang, Dong Ho Woo, Inchan Youn, Il-Joo Cho, Yong Chul Bae, Sungon Lee, Jae Wan Shim, Ji-Ho Park, C. Justin Lee

Presenter affiliation: Korea Institute of Science and Technology, Seoul, South Korea.

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Fatty acid increases cAMP-dependent lactate and MAO-B-dependent GABA production in mouse astrocytes by activating a G_{αs} protein-coupled receptor

NaHye Lee, Moonsun Sa, Yu Ri Hong, C. Justin Lee, JaeHyung Koo

Presenter affiliation: Korea University, Seoul, Korea; KIST, Seoul, South Korea.

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Spatiotemporal analysis of neuron-astrocyte interaction by dual-color calcium imaging

Eiji Shigeotmi, Yukiho Hirayama, Kazuhiro Ikenaka, Kenji F. Tanaka, Haruhiko Bito, Schuichi Koizumi

Presenter affiliation: Interdisciplinary Graduate School of Medicine, University of Yamanashi, Chuo, Japan.

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Dysfunction of ABCA1 in optic astrocytes causes pathogenesis of glaucoma

Youichi Shinozaki, Kazuhiko Namekata, Kenji Kashiwagi, Nobuhiko Ohno, Akiko Takeda, Takayuki Harada, Schuichi Koizumi

Presenter affiliation: University of Yamanashi, Yamanashi, Japan.

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- Norepinephrine triggers astrocytic Ca²⁺-spikes in prefrontal cortex of awaking mice**
Suhua Sun, Ji Li, Min Gao, Qinglong Wang, Lun Wang, Guoqing Chen, Li Shi, Mingli Li, Feipeng Zhu, Zhuan Zhou
 Presenter affiliation: Peking University, Beijing, China. 35
- Intranasal delivery of GENistein protects cortical neurons against cerebral ischemia**
 Lu Wang, Yaping Sun, Yating Zhai, Ning Bai, Ruimin Wang
 Presenter affiliation: North China University of Science and Technology, Hebei Tanshan, China. 36
- Hypoxia-inducible factors regulation on iron metabolism in 6-OHDA treated astrocytes**
 Manman Xu, Zhiqiang Chen, Xizhen Ma, Lingyu Xu, Junxia Xie, Jun Wang
 Presenter affiliation: Qingdao University, Qingdao, China. 37
- SOCE induced by specific subtype of P2Y receptor regulates microglia functional behavior**
 Mu Zhang, Yu Liu, Ji Xu
 Presenter affiliation: Zhengzhou University, School of Basic Medicine, Zhengzhou, China. 38
- Epigenetic study on mechanism of high expression of GDNF gene in glioma cells**
BaoLe Zhang, DianShuai Gao
 Presenter affiliation: Xuzhou Medical University, Xuzhou, China. 39
- Cognitive deficits in mice lacking Nsun5, a cytosine-5 RNA methyltransferase, with impairment of oligodendrocyte precursor cells**
Tingting Zhang, Peipei Chen, Wei Li, Sha Sha, Ya Wang, Zihao Yuan, Bin Shen, Ling Chen
 Presenter affiliation: Nanjing Medical University, Nanjing, China. 40
- A novel LncRNA CPEB1-AS1 in the pathogenesis of GBM**
Yufen Zhang, Sehui Ma, Lei Pei
 Presenter affiliation: School of Basic Medicine, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China. 41

CHL1 deficiency attenuates the brain inflammation under high altitude hypoxia

Ying Han, Ling-Ling Zhu, Ming Fan

Presenter affiliation: Institute of Military Cognition and Brain Sciences, Beijing, China.

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TUESDAY, December 4—4:30 PM

Chinese Tea and Beer Tasting

TUESDAY, December 4—7:00 PM

SESSION 4 ROLES OF MICROGLIA IN BRAIN FUNCTION AND DISEASE I

Chairperson: **Schuichi Koizumi**, University of Yamanishi, Yamanishi, Japan

The role of microglial cells in brain diseases

Helmut Kettenmann [25'+10']

Presenter affiliation: Max Delbrück Center for Molecular Medicine in the Helmholtz Association, Berlin, Germany.

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Microglial phenotypes associated with neurodegenerative disease

Erik W. Boddeke [25'+10']

Presenter affiliation: University of Groningen, University Medical Center Groningen, Groningen, Netherlands.

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Microglia-focused neuropsychiatric translational research using human blood—Dynamic cellular analysis using induced microglia-like (iMG) cells from human monocytes and various plasma analysis

Takahiro A. Kato, Masahiro Ohgidani, Shigenobu Kanba [25'+10']

Presenter affiliation: Kyushu University, Fukuoka, Japan.

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Ecto-5'-nucleotidase-derived adenosine controls microglia-mediated neuroinflammation and dopaminergic neurodegeneration

Fan Meng, Zhige Guo, Yaling Hu, Weihao Mai, Shumin Duan, Jiangfan Chen, Zhihua Gao [10'+5']
Presenter affiliation: Zhejiang University School of Medicine, Hangzhou, China.

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Spinal long-term potentiation underlies chronic pain hypersensitivity via CGRP- and CSF1-dependent microglial activation

Li-Jun Zhou, Jiyun Peng, Ya-Nan Xu, Jun Zhang, Wei-Jie Zeng, Xiao Wei, Chun-Lin Mai, Zhi Tan, Xian-Guo Liu, Long-Jun Wu [10'+5']
Presenter affiliation: Zhongshan School of Medicine, Sun Yat-sen University, Guangzhou, China.

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WEDNESDAY, December 5—9:00 AM

SESSION 5 OLIGODENDROGLIA, MYELINATION AND DEMYELINATION

Chairperson: **Mengsheng Qiu**, Hangzhou Normal University, Hangzhou, China

Peripheral nerve dysfunction mediated by translational readthrough of myelin protein zero mRNA

Hiroko Baba, Yoshihide Yamaguchi [25'+10']
Presenter affiliation: Tokyo University of Pharmacy and Life Sciences, Hachioji, Japan.

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Neurotransmitter signaling in the life and death of an oligodendrocyte

Carlos Matute [25'+10']
Presenter affiliation: Achucarro Basque Center for Neuroscience, Leioa, Spain; CIBERNED, Leioa, Spain; Universidad del País Vasco (UPV/EHU), Leioa, Spain.

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Interactive repression of MYRF self-cleavage and activity in oligodendrocyte differentiation by an ER transmembrane protein

Hao Huang, Peng Teng, Mengsheng Qiu [25'+10']
Presenter affiliation: Hangzhou Normal University, Hangzhou, China.

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Coffee / Tea Break

An in vivo study on the nascent myelin formation

Cheng He [25'+10']

Presenter affiliation: Second Military Medical University, Shanghai, China.

51

Oligodendrocyte myelination—An essential factor for neural circuitry development?

Fei Wang, Yu-Jian Yang, Nian Yang, Feng Mei, Lan Xiao [25'+10']

Presenter affiliation: Army Medical University, Chongqing, China.

52

Region-specific myelin differences define behavioral consequences of chronic social defeat stress in mice

Valentina Bonnefil, Karen Dietz, Antonio Aubry, Jeffrey Dupree, Nesha Burghardt, Patrizia Casaccia, Jia Liu [10'+5']

Presenter affiliation: City University of New York, Advanced Science Research Center, New York, New York.

53

Nrf2 activation reduces white matter injury and promotes axonal remyelination after focal cerebral ischemia

Feng Zhang [10'+5']

Presenter affiliation: University of Pittsburgh, Pittsburgh, Pennsylvania.

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WEDNESDAY, December 5—1:30 PM

Visit to Old Suzhou

WEDNESDAY, December 5—7:00 PM

SESSION 6 GLIA-NEURON INTERACTIONS II

Chairperson: **Richard M. Ransohoff**, Third Rock Ventures, Boston, Massachusetts, USA

Reactive astrocyte-mediated synapse remodeling

Schuichi Koizumi [25'+10']

Presenter affiliation: Interdisciplinary Graduate School of Medicine, University of Yamanashi, Yamanashi, Japan.

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**Microglia in physiological brain—Focusing on microglia—
synapse interactions**

Hiroaki Wake [25'+10']

Presenter affiliation: Kobe University Graduate School of Medicine,
Kobe, Japan. 56

Mechanisms and consequences of glial sodium signalling

Christine R. Rose [25'+10']

Presenter affiliation: Heinrich Heine University, Duesseldorf, Germany. 57

Glia, burst, drug and depression

Yihui Cui, Yan Yang, Zheyi Ni, Yiyan Dong, Guohong Cai, Alecandre
Foncelle, Shuangshuang Ma, Kangning Sang, Siyang Tang, Yuezhou
Li, Ying Shen, Hugues Berry, Shengxi Wu, Hailan Hu [10'+5']

Presenter affiliation: Zhejiang University, Hangzhou, China. 58

**Scaffolding and guiding roles of GFAP in astrocytic modulation of
neuronal activity**

Yu-Feng Wang, Dongyang Li, Haitao Liu, Tong Li, Xiaoran Wang, Ping
Wang [10'+5']

Presenter affiliation: Harbin Medical University, Harbin, China. 59

Novel GABA synthesizing enzyme of glia

Eunji Cheong [10'+5']

Presenter affiliation: Yonsei University, Seoul, South Korea. 60

THURSDAY, December 6—9:00 AM

KEYNOTE SPEAKER

Introduction by: Brian A. MacVicar, University of British Columbia,
Vancouver, Canada

**Astrocytic regulation of neural microcircuits—Tools, data and
concepts**

Baljit S. Khakh [40'+10']

Presenter affiliation: UCLA, Los Angeles, California. 61

SESSION 7 ROLES OF MICROGLIA IN BRAIN FUNCTION AND DISEASE II

Chairperson: **Mami Noda**, Kyushu University, Fukuoka, Japan

Microglia—Close encounters of every kind

Richard M. Ransohoff [25'+10']

Presenter affiliation: Third Rock Ventures, Boston, Massachusetts;
Harvard Medical School, Boston, Massachusetts.

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Coffee / Tea Break

Sex, pain and microglia

Michael Salter [25'+10']

Presenter affiliation: Hospital for Sick Children, Toronto, Canada.

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Microglial process pouches heal dendritic aberrations following seizures

Ukpong B. Eyo, Long-Jun Wu [25'+10']

Presenter affiliation: Mayo Clinic, Rochester, Minnesota; Mayo Clinic, Jacksonville, Florida.

64

Microglial P2Y₁₂ receptors are necessary to maintain the network homeostasis of anxious circuits

Jiyun Peng, Yong Liu, Long-Jun Wu [10'+5']

Presenter affiliation: Nanchang University, Nanchang, China; Mayo Clinic, Rochester, Minnesota.

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SESSION 8 ROLES OF ASTROCYTES IN BRAIN FUNCTION AND DISEASES

Chairpersons: **Erik W. Boddeke**, University of Groningen, Groningen, the Netherlands
Nicola J. Allen, Salk Institute, La Jolla, California, USA

New roles for pericytes and astrocytes in the function, repair and regeneration of cerebral blood vessels

Brian A. MacVicar [25'+10']

Presenter affiliation: University of British Columbia, Vancouver, Canada.

66

Astrocytic dopamine D2 receptors mediate EAE pathogenesis

Jiawei Zhou [25'+10']

Presenter affiliation: Chinese Academy of Sciences, Institute of Neuroscience, Shanghai, China.

67

Chemokines-mediated neuron-astrocyte interaction contributes to neuropathic pain

Bao-Chun Jiang, Zhi-Jun Zhang, De-Li Cao, Yong-Jing Gao [10'+5']

Presenter affiliation: Nantong University, Nantong, China.

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Astroglial NDRG2 deficiency leads to attention deficits and hyperactive behavior

Yan Li, Anqi Yin, Xin Sun, Ming Zhang, Haiting Sun, Lize Xiong [10'+5']

Presenter affiliation: The First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China.

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Coffee / Tea Break

Genetic variation in neuropeptide-mediated glia-neuron signaling modulates ageing rate

Jiang-An Yin, Ge Gao, Xi-Juan Liu, Zi-Qian Hao, Kai Li, Xinlei Kang, Hong Li, Yuan-Hong Shan, Wen-Li Hu, Hai-Peng Li, Shi-Qing Cai [25'+10']

Presenter affiliation: Chinese Academy of Sciences, Shanghai, China.

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Reactive astrocytes, MAOB, H₂O₂, and Alzheimer's disease

C. Justin Lee [25'+10']

Presenter affiliation: IBS, Daejeon, South Korea.

71

Metabolic reprogramming of astrocytes is the basis for region-specific neuronal susceptibility in huntington mice

Aris A. Polyzos, Do Yup Lee, Rupsa Datta, Meghan Hauser, Helen Budworth, Amy Holt, Stephanie Mihalik, Pike Goldschmidt, Ken Frankel, Kelly Trego, Michael J. Bennett, Jerry Vockley, Ke Xu, Enrico Gratton, Cynthia T. McMurray [10'+5']

Presenter affiliation: Lawrence Berkeley National Laboratory, Berkeley, California.

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Astrocytes within BLA-NAc circuit to rescue deficiency of risk avoidance in DISC1- truncated mice

Xinyi Zhou, Qian Xiao, Li Xie, Fan Yang, Jie Tu [10'+5']

Presenter affiliation: Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China.

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THURSDAY, December 6—6:00 PM

COCKTAILS and BANQUET

FRIDAY, December 7—9:00 AM

SESSION 9 GLIAL CELLS IN CNS PATHOLOGY

Chairpersons: **Long-Jun Wu**, Mayo Clinic, Rochester, Minnesota, USA
C. Justin Lee, Korea Institute of Science and Technology, Seoul, Korea

Protein profiling of CNS myeloid cells and CNS tissues from APP/PS1 mice and Alzheimer's disease cases implicates micro- and astroglial-expressed proteins in Alzheimer's disease pathogenesis

Camila Thygesen, Stefan J. Kempf, Laura Ilkjaer, Athanasios Metaxas, Christian U. von Linstow, Anne Louise Hemdrup, Sultan Darvesh, Martin R. Larsen, Bente Finsen [25'+10']

Presenter affiliation: University of Southern Denmark, Odense C, Denmark.

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Gliomas of distinct origins interact with distinct brain cell types
Xiaofei Gao, Zhaohuan Zhang, Tomoyuki Mashimo, James Nyagilo,
Bo Shen, Yihui Wang, Sara Piccirillo, Ugur Eskioçak, Zhida Liu Liu,
Digant Davé, Yang-Xin Fu, Song Qin, Wenzhi Sun, Hui Zong, Robert
Bachoo, Woo-Ping Ge [25'+10']
Presenter affiliation: University of Texas Southwestern Medical Center,
Dallas, Texas. 75

**Pericyte degeneration impairs capillary reflow in radiation
induced brain injury β**
Yamei Tang, Jinping Cheng, Jingru Jiang, Baixuan He, Zhongshan
Shi, Jinhua Cai, Hao Chen [10'+5']
Presenter affiliation: Sun Yat-Sen Memorial Hospital, Sun Yat-Sen
University, Guangzhou, China; Zhongshan School of Medicine, Sun
Yat-Sen University, Guangzhou, China. 76

**Widespread impairment of cerebrospinal fluid flow in a focal
closed head injury model, photo-injury mouse**
Mitsuhiro Morita, Masae Azuma
Presenter affiliation: Kobe University, Kobe, Japan. 77

Coffee / Tea Break

**Glial secretomics to define the role of glia in neuroinflammation—
Interglial crosstalk**
Kyoungho Suk [25'+10']
Presenter affiliation: Kyungpook National University School of
Medicine, Daegu, South Korea. 78

**Microenvironment and immune evasion in the brain metastasis of
lung cancer**
Mami Noda [25'+10']
Presenter affiliation: Kyushu University, Fukuoka, Japan. 79

**Neuroimmunological function of osteopontin in activation of
astrocytes in stab wound mouse brain and LPS stimulated
primary culture**
Hiroko Ikeshima-Kataoka, Motoko Furukawa, Sayaka Inui, Yutaka
Matsui, Toshimitsu Ueda, Masato Yasui [10'+5']
Presenter affiliation: Keio University School of Medicine, Tokyo, Japan;
Waseda University, Tokyo, Japan. 80