

Sino-German Summer School: Frontiers in Purinergic Signalling and Acupuncture



2nd Sino-German Summer School

Frontiers in Purinergic Signalling and Acupuncture

AGENDA

September 19-29, 2023

Chengdu, China



中德科学中心

Chinesisch-Deutschen
Zentrum für
Wissenschaftsförderung





Agenda

September 19: Arrival and Registration

September 20-21: Workshop

September 22-26: Lecture

September 27: Visit

September 28: Flexible

September 29: Departure



Organizers

Prof. Christian Lohr, University of Hamburg

Prof. Yong Tang, Chengdu University of Traditional Chinese Medicine



Sponsor

Chinesisch-Deutsche Zentrum für Wissenschaftsförderung (GZ1641)



September 20

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| 09:00-10:30 | Workshop (Place: Chengdu University of TCM) Group 1: Two-Photon Microscope Group 2: Macroscope |
| 10:30-12:00 | Workshop (Place: Chengdu University of TCM) Group 3: Two-Photon Microscope Group 4: Macroscope |
| 12:00-14:00 | Lunch (Hotel) |
| 14:00-15:30 | Workshop (Place: Chengdu University of TCM) Group 2: Two-Photon Microscope Group 1: Macroscope |
| 15:30-17:00 | Workshop (Place: Chengdu University of TCM) Group 4: Two-Photon Microscope Group 3: Macroscope |
| 18:00 | Dinner (Hotel) |

Notice:

Morning:

Group 1 and 2:

Please come to the lobby before 8:30 to take the booked car to the workshop place

Group 3 and 4:

Please come to the lobby before 10:00 to take the booked car to the workshop place

Afternoon:

Group 1 and 2:

Please come to the lobby before 13:30 to take the booked car to the workshop place

Group 3 and 4:

Please come to the lobby before 15:00 to take the booked car to the workshop place



September 21

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| 09:00-12:00 | Workshop (Place: 4 th floor, meeting room at the Hotel) Use of luciferase probes to measure ATP in living cells and animals (Mario Tarantini, Ferrara) |
| 12:00-14:00 | Lunch |
| 14:00-17:00 | Workshop (Place: 4 th floor, meeting room at the Hotel) Probing the dynamics of purinergic transmitters in vitro and in vivo (Zhaofa Wu, Beijing) |
| 18:00 | Dinner |



September 22

[Place: 4th floor, meeting room at the Hotel](#)

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| 09:00-10:30 | Session 1_Purinergic Signalling in Physiology (1) Chair: Christian Lohr |
| 09:00-09:45 | Charles Kennedy (Glasgow): Overview of the history of purinergic receptors and signalling |
| 09:45-10:30 | Zhi-Hua Gao (Hangzhou): Microglia, purinergic signaling and anesthesia |
| 10:30-11:00 | Coffee Break |
| 11:00-12:30 | Session 2_New findings in acupuncture (1) Chair: Jiang-Fan Chen |
| 11:00-11:45 | Man Li (Wuhan): Electroacupuncture relieves visceral pain and related depression-like behaviors by CB2 receptor activation-induced downregulation of P2Y12 receptor |
| 11:45-12:30 | Lei-Miao Yin (Shanghai): From acupuncture effects to target discovery |
| 12:30-14:00 | Lunch |
| 14:00-15:30 | Session 3_New findings in acupuncture (2) Chair: Lei-Miao Yin |
| 14:00-14:45 | Fang Zeng (Chengdu): Neuroimage and acupuncture |
| 14:45-15:30 | Ju-Xian Song (Guangzhou): Mechanism of electroacupuncture on attenuating cognitive impairment in Alzheimer's disease via autophagy regulation |
| 15:30-16:00 | Coffee Break |
| 16:00-19:00 | Session 4_Purinergic Signalling in Pathophysiology (1) Chair: Zhi-Hua Gao |
| 16:00-16:45 | Eva Jimenez-Mateos (Dublin): Postnatal brain development: Inflammation and purinergic signalling contribution |
| 16:45-17:30 | Shangdong Liang (Nanchang): P2Y12 receptor in sympathetic ganglia mediate pathological damage in type 2 diabetes |
| 17:30-18:15 | Tobias Engel (Dublin): ATPergic signalling in epilepsy: Novel approaches for diagnostics and therapeutics |
| 18:15-19:00 | Ivan Milenkovic (Oldenburg): Purinergic signaling in the hearing system |
| 19:00 | Dinner |



September 23

[Place: 4th floor, meeting room at the Hotel](#)

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| 09:00-10:30 | Session 5_P2X7 receptors (1) Chair: Henning Ulrich |
| 09:00-09:45 | Francesco Di Virgilio (Ferrara): The P2X7 receptor mediates exchange of microparticles and mitochondria by microglial cells |
| 09:45-10:30 | Lumei Huang (Budapest): P2X7Rs modulate dentate gyrus excitatory neurotransmission and alleviate schizophrenia-like symptoms in mouse |
| 10:30-11:00 | Coffee Break |
| 11:00-12:30 | Session 6_P2X7 receptors (2) Chair: Francesco Di Virgilio |
| 11:00-11:45 | Henning Ulrich(Sao Paulo): P2X7 and P2Y2 receptors in the brain: from neurogenesis towards neurodegeneration |
| 11:45-12:30 | Yue Han (Chengdu): P2X7 in the regulation of AT-I to human cervical cancer |
| 12:30-14:00 | Lunch |
| 14:00-16:15 | Session 7_New findings in Acupuncture(3) Chair: Man Li |
| 14:00-14:45 | Pei-Jing Rong (Beijing): Auricular-point electrical stimulation driving vagus nerve mediates modulation of neuroinflammation for depression |
| 14:45-15:30 | Nana Yang (Beijing): Electroacupuncture drives muscularis macrophages to limit Inflammation-induced dysmotility |
| 15:30-16:15 | Hang Zhou (Beijing): Neuroimaging study of acupuncture to improve cognitive function in patients with subjective cognitive decline |
| 16:15-16:45 | Coffee Break |
| 16:45-19:00 | Session 8_P2X7 receptors (3) Chair: Ivan Milenkovic |
| 16:45-17:30 | Hui-Rong Liu (Shanghai): P2X7 and P2Y1 receptors in the DRG mediated analgesia effect of electroacupuncture on rats with IBS visceral pain |
| 17:30-18:15 | Peter Illes (Leipzig): The involvement of ATP-sensitive, central P2X7 receptors in major depression |
| 18:15-19:00 | Ronald Sluyter (New South Wales):The role of P2X7 in inflammation: insights from humanized mice |
| 19:00 | Dinner |



September 24

[Place: 4th floor, meeting room at the Hotel](#)

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| 09:00-10:30 | Session 9_Adenosine Receptors (1) Chair: Tobias Engel |
| 09:00-09:45 | Bruno Frenguelli (Coventry): Adenosine A1R-based analgesics: a very selective approach |
| 9:45-10:30 | Jiang-Fan Chen (Wenzhou): Striatopallidal adenosine A2A receptor modulation of goal-directed behavior: homeostatic control with cognitive flexibility |
| 10:30-11:00 | Coffee Break |
| 11:00-12:30 | Session 10_Adenosine Receptors (2) Chair: Bruno Frenguelli |
| 11:00-11:45 | Jianhui Rong (Hong Kong) Chinese medicine puerarin ameliorates depression-like behaviors via targeting RagA-mTOR-Adora2a signaling |
| 11:45-12:30 | Guo Wei (Wenzhou): Lateral septum adenosine A2A receptors control stress-induced depressive-like behaviors via signaling to the hypothalamus and habenula |
| 12:30-14:00 | Lunch |
| 14:00-16:00 | Session 11_Purinergic Signalling in Pathophysiology (2) Chair: Eva Jimenez-Mateos |
| 14:00-14:45 | Guang-Yin Xu (Suzhou): Purinergic Receptors and Chronic Visceral Pain |
| 14:45-15:30 | Lin-Hua Jiang (Leeds): ATP-based calcium mechanisms in mesenchymal stem cells |
| 15:30-16:00 | Coffee Break |
| 16:00-19:00 | Session 12_Purinergic Signalling in Physiology (2) Chair: Charles Kennedy |
| 16:00-16:45 | Christian Lohr (Hamburg):Purinergic neuron-glia/glia-neuron interactions in the olfactory bulb |
| 16:45-17:45 | Alexei Verkhratsky (Manchester): Physiology and pathophysiology of astroglia |
| 17:45-18:30 | Yong Tang (Chengdu): Purinergic signalling and acupuncture: Frontiers and Future |
| 18:30-18:45 | Closing words of the organizers |
| 19:00 | Dinner |



September 25

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| 08:00 | Meeting at the lobby of the hotel Notice: 1. Tonight we will live in another hotel in Guangyuan for ONE night. 2. Please do not check-out. |
| Morning | Visit Sanxingdui Ruins https://news.cgtn.com/news/2022-10-15/Sanxingdui-Ruins-shed-light-on-China-s-cultural-origins--1e9dsFODbiM/index.html |
| Afternoon | From Sanxingdui Ruins to Guangyuan and Check-in |
| 17:00-19:00 | Meet the Editor-in-Chief of <i>Neuropharmacology</i> |
| 19:00 | Gala Dinner |



September 26

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| 10:00-12:00 | Meet the Editor-in-Chief of <i>Purinergic Signalling</i> |
| 12:00-14:00 | Lunch |
| 14:00 | Return to Chengdu |



September 27

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| Morning | Visit Panda Base http://www.panda.org.cn/english/ |
| Afternoon | Visit Dujiangyan irrigation system https://www.chinadiscovery.com/sichuan/dujiangyan/dujiangyan-irrigation-system.html |