The 6th International Symposium in Quantitative Pharmacology • 2017

December 1st-2nd, 2017

Beijing, China
Dear Colleagues and Friends,

On behalf of the organizing committee, it is my great pleasure to announce that the International Symposium in Quantitative Pharmacology (ISQP) will be held on December, 2017, Beijing, China.

The integration of PK and PD modeling and simulation have played a vital role to guide the decision making process on optimization and product realization, virtually in every stage to reduce time and cost needed for drug development.

With the recent trend toward global drug development and clinical trials, China has been regarded as the next frontier for the pharmaceutical industry. Pfizer, Roche, Johnson & Johnson, Novartis and others have established Research and Development (R&D) centers in China. Also, through the government’s support, the pharmaceutical industry and related infrastructure have been growing rapidly in China.

The success of previous five ISQPs since 2007 in China has created a big momentum in promoting the related research in this field in China. We believe that ISQP Beijing 2017 will also lend a platform for the scientific leaders in academia, regulatory authority and the pharmaceutical industry. It will be an opportunity to discuss the opportunities and challenges ahead in global drug research and development. We hope this symposium will contribute to enhance exchanging mutual interests between Western and China in this very challenging area.

As the capital of China with a history for more than 3000 years, Beijing, a rapidly changing city will present you an impressive experience with a mixture of old tradition and hi-technology during your stay.

Thank you in advance for your participation and support.

Pei Hu, MD
President of the Organizing Committee
Professor, Director
Phase I Unit, Clinical Pharmacology Research Center, Peking Union Medical College Hospital and Chinese Academy of Medical Sciences
Organization:

Sponsor: Chinese Pharmacological Society Quantitative Pharmacology Professional Committee
Organizer: Phase I Unit, Peking Union Medical College Hospital; Beijing Key Laboratory of Clinical PK/PD for Innovative Drugs
Academic Support: Center for Drug Evaluation, CFDA
Co-organizers: Beijing Rui Zhi Hong Yang Business Consulting Co., Ltd.
Meeting Chairman: Qingshan Zheng, Shanghai University of Traditional Chinese Medicine
Executive chairman: Pei Hu, Peking Union Medical College Hospital
Vice President: Wei Lu, School of Pharmac, Peking University
    Jiang Ji, Peking Union Medical College Hospital
    Qin Huang, Center for Drug Evaluation, CFDA
    Nengneng Cheng, School of Pharmacy, Fudan University
    Zheng Jiao, Huashan Hospital, Fudan University

International Academic Committee (in alphabetical order by last name):

Andrew Chow, Amgen
Brian Corrigan, Pfizer
Joga Gobburu, University of Maryland
Nick Holford, University of Auckland
William J. Jusko, SUNY at Buffalo
Yanjin Jin, Genetech
Jianguo Li, AstraZeneca
Donald E. Mager, SUNY at Buffalo
Richard Peck, Roche
Bob Powell, Univ.of North Carolina State
Amin Rostami-Hodjegan, University of Manchester
Amar Sharma, Janssen
Tom Sun, Janssen
Yaning Wang, FDA
Liang Zhao, FDA
Ping Zhao, The Bill & Melinda Foundation
Chinese Academic Committee (in alphabetical order by last name):

Ze-neng Cheng, Central South University
Yiming Cui, Peking University
Yi Fang, Peking University People's Hospital
Chenyan Gao, CFDA
Feng Guo, Sihuan Pharm
Min Huang, Sun Yat-sen University
Xiaohui Huang, Anhui Medical University
Ji Jiang, Peking Union Medical College Hospital
Zheng Jiao, Fudan University
Gailing Li, Johnson & Johnson
Haiyan Li, Peking University
Xiaodong Liu, China Pharmaceutical University
Xiaoxi Liu, Harbour BioMed
Yan Li, Chinese Academy of Medical Science
Peiming Ma, GSK
Jun Shi, Roche, China
Jianzhong Rui, Nanjing Military Hospital
Haifeng Song, The Academy of Military Medical Science
He Sun, Tasly Group
Minji Wei, Peking University
Zhaoyang Tong, People's Liberation Army Institute of Chemical Defense
Guang-Ji Wang, China Pharmaceutical University
Hainang Wang, CFDA
Hui Wang, Guangdong Pharmaceutical College
Peng Wang, Beijing Xiantongda BioMed
Xiaoliang Wang, Chinese Academy of Medical Science
Rujia Xie, Pfizer
Haitang Xie, Anhui Drug Clinical Evaluation Center
Guoping Yang, The Third Xiangya Hospital of Central South University
Jinbo Yang, CDE, CFDA
Jin Yang, China Pharmaceutical University
Zhigang Yu, Amgen
Bingxiang Yuan, Xi An JiaoTong University
Shoujun Yuan, The Academy of Military Medical Science
Jing Zhang, Fudan University Huanshan Hospital
Tian-yan Zhou, Peking University

Organizing Committee (in alphabetical order by last name):

Shanshan Bi, Prizer China
Rui Chen, Peking Union Medical College Hospital
Xia Chen, BeijingTiantan Hospital
Yuancheng Chen, Fudan University Huanshan Hospital
Junjie Ding, Fudan University Children Hospital
Sheng Feng, Roche China
Li Li, CDE, CFDA
Lujin Li, Shanghai University of Traditional Chinese Medicine
Beibei Liang, Chinese PLA General Hospital
Dongyang Liu, Peking Union Medical College Hospital
Guangli Ma, Prizer China
Jing Nie, Janssen
Pei Qi, The Third Xiangya Hospital of Central South University
Dewei Shang, Guangzhou Brain Hospital
Hongyun Wang, Peking Union Medical College Hospital
Kun Wang, Shanghai University of Traditional Chinese Medicine
Xiaoqiang Xiang, School of Pharmacy, Fudan University
Jiansong Yang, Mosim
Chunmin Wei, CDE, CFDA
Zhao Zhang, Peking University
Libo Zhao, Beijing Children Hospital
Qian Zhao, Peking Union Medical College Hospital
Wei Zhao, Shandong University
Xin Zheng, Peking Union Medical College Hospital

General Information

The time of the meeting: December 1st-2nd, 2017
The meeting place: Landmark Towers Hotel, Beijing, China
Location: North Dongsanhuan Road (Dongsanhuan Bei Lu), Yansha Commercial Area, Beijing, 100004, China

**Important Date:**

- Nov. 10th, 2017—Closing Date for the Early-bird Registration
- Nov. 10th, 2017—Closing Date for the Essay Contribute
- Nov. 30th, 2017—On-site registration Date
- Dec. 1st-2nd, 2017 —The Formal Agenda of Convention and Exhibition

**Registration Website:** http://isqp2017.medmeeting.org/4452?lang=cn

**Registration Fee:**

- $600 for one adult, $550 for one adult Early-bird Registration (Nov 10th included)
- $300 for one Student (Student ID is NEEDED While Registration)

Organizing Committee will offer working lunch and welcome dinner.
Accommodation will be carried out under the unified arrangement by organizing committee, and the cost at audience’s own expense

**Contact:**

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Contact Person: Hongyun Wang, Ph D; Dongyang Liu, Ph D
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Fax: +86-10-69106576
Address: No 41, Damucang Hutong, Xicheng District, Beijing

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**Conference Agenda**

Dec. 1st, 2017

Morning 7:30-12:10

7:30-8:30 Registration

8:30-8:50 Opening Ceremony
### Session 1: Development of System Pharmacology

**Chairmen:** Prof. Wei Lu, Prof. Xiaodong Liu

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:50-09:20</td>
<td>Mechanistic Basis of Systems Pharmacology</td>
<td>William J. Jusko, Prof. of SUNY at Buffalo, NY, USA</td>
</tr>
<tr>
<td>09:20-09:50</td>
<td>Breaking the Glass Ceiling: Examining the Perceived Hurdles to Quantitative Systems Pharmacology Modelling</td>
<td>Amin Rostami-Hodjegan, Prof. of University of Manchester, UK</td>
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**Tea Break:** 09:50-10:20

### Session 2: The Impact of Quantitative Pharmacology on Decision and Strategy of Clinical Studies

**Chairmen:** Prof. Yi Fang, Prof. Minji Wei

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<tr>
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<tbody>
<tr>
<td>10:20-10:50</td>
<td>Current status of pharmacometrics on drug clinical development in China: cases and milestones</td>
<td>Qingshan Zheng, Shanghai University of Traditional Chinese Medicine</td>
</tr>
<tr>
<td>10:50-11:20</td>
<td>The role of clinical pharmacology in precision medicine</td>
<td>Richard Peck, MD/PhD, Global Head of pRED, Roche</td>
</tr>
<tr>
<td>11:50-12:20</td>
<td>Challenges and Opportunities in the Development of Neurodegenerative Treatments: The Role of Clinical Pharmacology and Pharmacometrics.</td>
<td>Brian Corrigan, PhD, Head of Global Clin. Pharm. and VP, Pfizer</td>
</tr>
</tbody>
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### Dec. 1st, 2017 - Afternoon 13:30-17:30

**Session 3: The Application and Future of Mechanism-based Physiological Pharmacokinetic Models and Disease Progression Model**
Chairmen: Prof. Guoping Yang, Dr. Ping Liu

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<tbody>
<tr>
<td>13:30-14:00</td>
<td>Cancer Modeling Platform</td>
<td>Jin Yan Jin, Global Head of M&amp;S, Genetech</td>
</tr>
<tr>
<td>14:00-14:30</td>
<td>The Application of Empirical and Mechanism-based Disease Progression Modeling</td>
<td>Liping Zhang, PhD, Senior Director, Pharmacometrics US Group Lead, Janssen</td>
</tr>
<tr>
<td>14:30-15:00</td>
<td>PBPK: from academic research to routine use in drug development</td>
<td>Ping Zhao, Ph.D The Bill &amp; Melinda Gates Foundation</td>
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</table>

Tea Break : 15:00-15:30

Session 4: Model-based Drug Development Strategy in Biopharmaceutics

Chairmen: Dr. Jun Shi, Dr. Jiansong Yang

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>15:30-16:00</td>
<td>Translational Modeling of Target-Mediated Drug Disposition and Dynamics</td>
<td>Donald E. Mager, Prof. of SUNY at Buffalo, NY, USA</td>
</tr>
<tr>
<td>16:00-16:30</td>
<td>Application of PBPK models in development of therapeutic antibodies</td>
<td>Yanguang Cao, Assistant Prof. of UNC at Chapel Hill, NC, USA</td>
</tr>
<tr>
<td>16:30-17:00</td>
<td>PKPD modeling to guide biologics clinical development plan</td>
<td>Tom Sun, Senior Director, Janssen.</td>
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Panel Discussion : 17:00-17:30 (All the speakers)

Tea Break : 17:30-18:00

Dec. 1st, 2017

Night 18:00-20:30

Salon: How to efficiently conduct early phase new drug development (Offer dinner)
Chairmen: Dr. Qian Zhao, Dr. Xin Zheng

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### Early Drug Development in China - Mosim’s Experience

**Speaker:** Jiansong Yang, Ph D  
**Title:** CEO, Mosim.

### Quality By Design (QbD in Clinical Trial) --- Implementation of Reinforced Operational Control for Clinical Trial

**Speaker:** Yin Li, Ph D  
**Title:** Spring Medical Chief Commercial Officer

### Exploratory and Quantitative Research Strategy of Biomarker

**Speaker:** Chao Zhang, Ph D  
**Title:** AB Sciex

### Panel Discussion: Opportunity and Challenge: Quantitative Pharmacology in the research and development of novel drugs

**Chairmen:** Dr. Gailing Li

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<tbody>
<tr>
<td>19:10-20:30</td>
<td>Panel Discussion: Yaning Wang, Liang Zhao, Jinbo Yang, Qingshan Zheng, Pei Hu, Li Chen, Yingxiang Wang, Qingchun Song</td>
</tr>
</tbody>
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### Dec. 2nd, 2017  
**Morning 8:30-12:20**

**Session 5: The Current Status and Future of Quantitative Pharmacology in Drug Evaluation from the Perspective of Regulation Authority**

**Chairmen:** Prof. Chenyan Gao, Dr. Feng Guo

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<tbody>
<tr>
<td>08:30-09:00</td>
<td>Balance between empiricism and mechanism</td>
<td>Yaning Wang, Director, Division of PM, CDER/FDA, USA</td>
</tr>
<tr>
<td>09:00-09:30</td>
<td>The Current Status and Future of Quantitative Pharmacology in Drug Evaluation in China</td>
<td>Jinbo Yang, Director, Division of Statistics and Clinical Pharmacology CDE/CFDA, China</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>Application of Quantitative Methods and Modeling to Generic Drug Development</td>
<td>Liang Zhao, Subject Scientist from US</td>
</tr>
</tbody>
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**Tea Break: 10:00-10:30**

**Session 6: The Application of Quantitative Pharmacology in Personalized Medicine and**
**Bioequivalence Evaluation**

**Chairmen: Prof. Zheng Jiao, Prof. Haitang Xie**

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<tbody>
<tr>
<td>10:30-11:00</td>
<td>Precision Drug Dosing: The Ultimate Patient Centered Pharmacometrics Application to Improve Health</td>
<td>Bob Powell, Pharm D U of North Carolina State</td>
</tr>
<tr>
<td>11:00-11:30</td>
<td>Determination of antibiotic treatment duration and drug resistance control: a new model-based approach</td>
<td>Jun Shi, PhD, Roche Innovation Center</td>
</tr>
<tr>
<td>11:30-12:00</td>
<td>Mutual Use of Clinical data from East Asian Countries in Drug Development and Registration</td>
<td>Diane Wang, Ph D Pfizer</td>
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Panel Discussion: 12:00-12:20 (All the speakers)

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**Dec. 2nd, 2017  Afternoon 13:30-17:30**

**Session 7: Invited Lectures by Young Researchers**

**Chairmen: Dr. Hongyun Wang, Dr. Li Li**

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:30-13:45</td>
<td>The Application of Pharmacometrics for Early Phase Clinical Development of New Anti-diabetic Drugs</td>
<td>Dongyang Liu, Ph D, Peking Union Medical College Hospital</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Novel pharmacotherapeutic quantitative guideline: our practice</td>
<td>Lujin Li, PhD, Shanghai University of Traditional Chinese Medicine</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Predicting the clinical doses of two glucocorticoids in the treatment of pancreatic cancer from preclinical studies by PK/PD modeling</td>
<td>Qingyu Yao, Ph D, Peking University</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>Application and perspective of population pharmacokinetics in drug review</td>
<td>Hongchan Han, Scientist Division of Statistics and Clinical Pharmacology, CDE/CFDA, China</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>Mechanism-based modeling and simulation of the time-kill curve: the biological resistance vs chemical reaction kinetics</td>
<td>Xiaofen Liu, Ph D Fudan University Huanshan Hospital</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td>How to optimize the early clinical trial design for Neuro diseases</td>
<td>Yucheng Sheng, PhD GSK</td>
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</table>
Tea Break: 15:00-15:15

Session 7 Part 2: Invited Lectures by Young Researchers
Chairmen: Dr. Xiaocong Zuo, Dr. Guangli Ma

<table>
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<tr>
<td>15:15-15:30</td>
<td>Exploring the Relationship between CYP2D6 Genotype and Phenotype based on Modeling and Quantitative analysis</td>
<td>Rui Chen, Ph D, Peking Union Medical College Hospital</td>
</tr>
<tr>
<td>15:30-15:45</td>
<td>Establishment of pharmacogenetics-based warfarin dosing algorithms with prospective data of Chinese patients using machine learning techniques</td>
<td>Qi Pei, Ph D, Xiangya Third Hospital</td>
</tr>
<tr>
<td>15:45-16:00</td>
<td>Cloud computing in the modeling and simulation</td>
<td>Lixuan Qian, Ph D, Fudan University Huanshan Hospital</td>
</tr>
<tr>
<td>16:00-16:15</td>
<td>Impact beyond Gut: a PBPK model for liposome property-performance translation</td>
<td>Hua He, Ph D, China Pharmaceutical University</td>
</tr>
<tr>
<td>16:15-16:30</td>
<td>PK prediction in patients with impaired renal function using PBPK, a case study</td>
<td>Sheng Feng, Ph D, Roche China</td>
</tr>
<tr>
<td>16:30-16:45</td>
<td>Modeling Combined Immunosuppressive and Anti-inflammatory Effects of Dexamethasone and Naproxen in Rats Predicts the Steroid-Sparing Potential of Naproxen</td>
<td>Xiaonan Li, PhD Mosim Co. Ltd.</td>
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Best Poster Awards: 16:45-17:10

Youth Paper Award: 17:10-17:35

Closing ceremony: 17:35-17:45