5th Asia Pacific ISSX Meeting
May 9-12, 2014
Tianjin, China
5th Asia Pacific ISSX Meeting 2014
May 9-12, 2014
Binhai One Hot Spring Resort, Tianjin China

Hosted by:
International Society for Study of Xenobiotics (ISSX)

Organized by:
Chinese Society for Study of Xenobiotics (CSSX)

Co-Organized by:
Tianjin Institute of Pharmaceutical Research (TIPR)

Meeting Management:
Shanghai MICE Partners Consulting Co., Ltd (SMPC)

Meeting Organizing Committee
Changxiao Liu, Meeting Co-Chair, Tianjin Institute of Pharmaceutical Research, China
Zhuohan Hu, Meeting Co-Chair, Research Institute for Liver Disease, Shanghai, China
John Miners, Meeting Co-Chair, Flinders University School of Medicine, Australia

Philip Board, Australian National University, Canberra, Australia
Min Huang, Sun Yat-sen University, Guangzhou, China
Jae-Gook Shin, Inje University, Busan, Republic of Korea
Duanyun Si, Tianjin Institute of Pharmaceutical Sciences, Tianjin, China
Bill Smith, Pfizer Inc., San Diego, California, USA
Jasminder Sahi, GlaxoSmithKline R&D, China
Ikumi Tamai, Kanazawa University, Kanazawa, Japan
Wichittra Tassaneeyakul, Khon Kaen University, Khon Kaen, Thailand
Zhenqing Zhang, Chinese Academy of Military Medical Sciences
Dafan Zhong, Shanghai Institute of Materia Medica, Shanghai, China
Mingshe Zhu, Bristol-Myers Squibb, Princeton, New Jersey, USA

The scientific program, which will run over three days, will comprise two keynote lectures, two award lectures, three workshops, and twelve symposia along with poster sessions.

Save the dates and make plans to join us in Tianjin, China!

For meeting registration, sponsor and exhibition inquiry, please contact Frank Fung at info@mice-partners.com or visit http://www.cssx.org.cn/2014/APISSX_2014.asp?ID=41
Scientific Program

Day One: Friday, May 9, 2014

17:30-18:00 | Opening and Welcome Remarks
Location: Meeting Centre Lobby, Binhai One Hot Spring Resort, Tianjin China

18:00-18:30 | Sponsored Scientific Lecture
Location: Chinese Restaurant Ballroom

18:30-21:00 | Welcome Reception
Location: Chinese Restaurant Ballroom

Day Two: Saturday, May 10, 2014

07:00-8:30 | Registration
Location: Meeting Centre Lobby

8:30-9:00 | Opening Remarks
Location: Binhai Hall

9:00-10:00 | K1. Keynote Lecture 1: Personalized Medication in China: Current Status and Trends
Location: Binhai Hall
Co-chairs: Zhuohan Hu, Research Institute for Liver Diseases, Shanghai, China;
Changxiao Liu, Tianjin Institute of Pharmaceutical Research, Tianjin, China
Speaker: Professor Honghao Zhou, Institute of Clinical Pharmacology, Central South China University, Changsha, China

10:00-10:30 | Refreshment and Posters Review
Location: Meeting Centre Foyer

10:30-12:00 | Workshop 1: The Functional Characterization of Transporters
Location: Multimedia Room
Co-chairs: Ikumi Tamai, Kanazawa University, Kanazawa, Japan;
Kexin Liu, Dalian Medical University, Dalian, China

10:30-11:00 | S1. Functional Relevance of Nitrated Tyrosine Residues of OAT Transporters
Suk-Jae Chung, Seoul National University, Seoul, Korea

11:00-11:30 | S2. Evaluation of Drug Effect on Transporters Regulating Serum Urate
Ikumi Tamai, Kanazawa University, Kanazawa, Japan

11:30-12:00 | S3. Drug Transporter Based Pharmacodynamic Screening of Chinese Herbal Medicine
Xiulin Yi, Tianjin Institute of Pharmaceutical Sciences

10:30-12:00 | Symposium 1: Genetic Regulation of Drug Metabolising Enzymes
Concurrent with Workshop 1
Location: Binhai Hall
Co-chairs: Peter Mackenzie, Flinders University, Bedford Park, Australia;
Zhonghui Yuan, Institute of Veterinary Pharmaceuticals, Wuhan, China

10:30-11:00 | S4. PXR: Endo/xeno Dual Sensor that Integrates SGK2 Signaling for Glucogenesis
Masa Negishi, NIH/NIEHS, Research Triangle Park, North Carolina, USA
11:00-11:30 | S5. Regulation of UDP-glucuronosyltransferases in Breast and Prostate Cells: Implications for Cancer  
Peter Mackenzie, Flinders University, Bedford Park, Australia

11:30-12:00 | S6. PCB Regulation of Hepatic Nuclear Receptors: Implications for Hepatic Steatosis  
Russ Prough, University of Louisville School of Medicine, Louisville, Kentucky, USA

12:00-13:00 | Industry Sponsored Symposia
Location: Binhai Hall- Shimadzu & Multimedia Room-Waters

13:00-14:00 | Posters and Exhibitions
Location: Meeting Centre Foyer

14:00-15:30 | Symposium 2: Metabolism and Safety of Herbal Medicines and Natural Products – Preclinical/Clinical and Toxicological Significance
Location: Binhai Hall
Co-chairs: Changxiao Liu, Tianjin Institute of Pharmaceutical Research, Tianjin, China; Ge Lin, The Chinese University of Hong Kong, Hong Kong, China

14:00-14:30 | S7. Transporters in Drug Safety of Herbal Medicines  
Xiaodong Liu, Chinese Pharmaceutical University, Nanjing, China

14:30-15:00 | S8. Translational Science of Herb-drug Interactions: Preclinical to Clinical  
Soo-Jin Park, Daegu Haany University, Gyeongsan, Korea

15:00-15:30 | S9. Translational Science of Safety of Herbal Medicines and Natural Products: Development of the Mechanism-based Biomonitoring Marker for Clinical Diagnosis  
Ge Lin, The Chinese University of Hong Kong, Hong Kong, China

14:00-15:30 | Symposium 3: Drug-Drug Interactions – Mechanisms and Prediction
Location: Multimedia Room
Co-chairs: Jianshi Lou, Tianjin Medical University, Tianjin, China; Ling Yang, Dalian Institute of Chemical Physics, CAS, Dalian, China

14:00-14:30 | S10. Application of Physiologically-based Pharmacokinetic Modeling and Simulation in Prediction of Human PK and Drug-drug Interactions, an Industrial Experience  
Chuang Lu, Millennium Pharmaceuticals, Takeda Co, Cambridge, Massachusetts, USA

14:30-15:00 | S11. In vitro Prediction of CYP450 Induction: Enzyme/mRNA Induction and Nuclear Receptor Activation  
Hongbing Wang, The University of Maryland School of Pharmacy, Baltimore, Maryland, USA

15:00-15:30 | S12. Mechanisms of Inhibition  
Ling Yang, Dalian Institute of Chemical Physics, CAS, Dalian, China

15:30-16:00 | Refreshment and Posters Review
Location: Meeting Centre Foyer

16:00-18:00 | Symposium 4: Transporters
Location: Multimedia Room
Co-chairs: Jasminder Sahi, GlaxoSmithKline, Shanghai, China; Genfu Chen, Wuxi Apptec, Shanghai, China

16:00-16:30 | S13. OATP Family: Pathophysiological and Pharmacological Roles  
Ikumi Tamai, Kanazawa University, Kanazawa, Japan

16:30-17:00 | S14. Leveraging Transporters for the Discovery of CNS drugs  
Jasminder Sahi, GlaxoSmithKline, Shanghai, China
17:00-17:30 | S15. Human ABC Transporters and Pharmacogenomics  
Min-Goo Lee, Yonsei University, Seoul, Korea
17:30-18:00 | S16. Amino Acid Transporters in Cancers for Effective and Selective Delivery of Cancer-targeting Agents: Relevance to Cancer Diagnosis and Therapeutics  
Yoshikatsu Kanai, Osaka University Graduate School of Medicine, Osaka, Japan

16:00-17:30 | Symposium 5: ADME Optimisation in Drug Discovery and Development
Location: Binhai Hall
Co-chairs: Bill Smith, Pfizer Inc-La Jolla Labs, San Diego, California, USA; Xiao-dong Liu, China Pharmaceutical University, Nanjing, China
16:00-16:30 | S17. In vitro ADME Approaches in Early Drug Discovery  
Yang Sai, Hutchison MediPharma, Shanghai, China
16:30-17:00 | S18. Experiences in the Assessment of DDI Potential during Drug Development: Progress and Challenges  
Bill Smith, Pfizer Inc-La Jolla Labs, San Diego, California, USA
17:00-17:30 | S19. ADME Technologies in Drug Discovery and Development  
Zheming Gu, XenoBiotic Laboratories, Inc., Plainsboro, New Jersey, USA

18:00-20:30 | Banquet
Location: Chinese Restaurant Ballroom

Day Three: Sunday, May 11, 2014

08:00-9:00 | Registration
Location: Meeting Centre Lobby

9:00-10:00 | K2. Keynote Lecture 2: Reactive Intermediates versus Covalent Drugs: Similarities and Differences in Chemical Properties and Toxicological Potential
Location: Binhai Hall
Co-chairs: John Miners, Flinders University, Bedford Park, Australia; Zhenqing Zhang, Beijing Institute of Pharmacology and Toxicology, Beijing, China
Speaker: Tom Baillie, University of Washington, Seattle, Washington, USA

10:00-10:30 | Refreshment and Posters Review
Location: Meeting Centre Foyer

10:30-12:00 | Workshop 2: PK-PD Modeling
Location: Multimedia Room
Co-chairs: Geoff Tucker, University of Sheffield (Emeritus) and Simcyp Ltd, Sheffield, UK; Xue-hua Jiang, West China School of Pharmacy, Chengdu, China
10:30-11:00 | S20. Basic Concepts of PK-PD Modelling  
Jiansong Yang, GlaxoSmithKline, Shanghai, China
11:00-11:30 | S21. PBPK Modelling and its Application in Drug Development  
Geoff Tucker, University of Sheffield (Emeritus) and Simcyp Ltd, Sheffield, UK
11:30-12:00 | S22. Principles and Practices of POP PK-PD  
Wei Lu, Beijing University, Beijing, China
10:30-12:00 | Symposium 6: New Approaches for the Study of Drug Disposition

**Concurrent with Workshop 2**

**Location:** Binhai Hall

**Co-chairs:** Frank Gonzalez, Laboratory of Metabolism, NCI, NIH, Bethesda, Maryland, USA; Zack Cheng, AstraZeneca, Shanghai, China

10:30-11:00 | S23. MicroRNAs in Control of Cytochrome P450 Enzyme Mediated Drug Oxidations and Toxicities

*Miki Nakajima, Kanazawa University, Kanazawa, Japan*

11:00-11:30 | S24. Human Hepatocyte-like Cells and Their Applications

*Lijian Hui, Shanghai Institute of Biochemistry and Cell Biology, Shanghai, China*

11:30-12:00 | S25. Metabolomics in the Study of Drug Metabolism and Toxicity

*Frank Gonzalez, Laboratory of Metabolism, NCI, NIH, Bethesda, Maryland, USA*

12:00-13:00 | Industry Sponsored Symposia

**Location:** Binhai Hall-Agilent & Multimedia Room-Simulations Plus Inc./Pharmogo

13:00-14:00 | Posters and Exhibitions

**Location:** Meeting Centre Foyer

14:00-15:30 | Poster Oral presentation: 6 speakers

**Location:** Multimedia Room

15:30-16:00 | Refreshment and Posters Review

**Location:** Meeting Centre Foyer

16:00-18:00 | Symposium 7: Herb-Drug Interactions

**Location:** Binhai Hall

**Co-chairs:** Chuan Li, Shanghai Institute of Materia Medica, Shanghai, China; Xin He, Tianjin University, Tianjin, China

16:00-16:30 | S26. Predicting Herb-drug Interactions via an Integrated *in vitro-in silico-in vivo* Approach

*Mary Paine, Washington State University, Spokane, Washington, USA*

16:30-17:00 | S27. The Genotyping and Phenotyping of Gut Microbiota and its Application for Evaluating Metabolism and Efficacy of Oral Drugs/Herbal Medicines

*Ru Yan, University of Macau, Macau, China*

17:00-17:30 | S28. Potential Herb-drug and Herb-herb Interaction Associated with Fufang-Danshen-Fang, an Herb Combination for Treatment of Patients with Angina Pectoris

*Chuan Li, Shanghai Institute of Materia Medica, Shanghai, China*

17:30-18:00 | S29. Roles of Efflux Transporters and Metabolizing Enzymes in Herb Induced Hepatotoxicity

*Hua Li, Beijing Institute of Pharmacology and Toxicology, Beijing, China*

16:00-17:30 | Symposium 8: Advances in Mass Spectrometry—Application to DMPK Science

**Location:** Multimedia Room

**Co-chairs:** Mingshe Zhu, Bristol-Myers Squibb, Princeton, New Jersey, USA; Duanyan Si, Tianjin Institute of Pharmaceutical Research, Tianjin, China

16:00-16:30 | S30. Unbiased Detection of Totally Unknown Xenobiotics in Complex Biologic Systems Using High-resolution Mass Spectrometry: Applications in Drug Metabolism and Beyond

*Mingshe Zhu, Bristol-Myers Squibb, Princeton, New Jersey, USA*
16:30-17:00 | S31. Mass Spectrometry Analysis for DMPK Study: from Small Molecule Drugs to Therapeutic Proteins
   Jingkai Gu, Research Center for Drug Metabolism of Jilin University, Changchun, China
17:00-17:30 | S32. Elucidating Host-gut Microbiota Modulation of Therapeutic Outcome Using GCMS-based Metabonomics
   Eric Chun Yong Chan, National University of Singapore, Singapore

18:00-21:30 | Social Event
Location: Chinese Restaurant Ballroom

Day Four: Monday, May 12, 2014

08:00-8:30 | Registration
Location: Meeting Centre Lobby

8:30-10:00 | ISSX Awards Presentations and Lectures
ISSX Asia-Pacific Scientific Achievement Award: Yasushi Yamazoe
ISSX Asia-Pacific New Investigator Award: Kazuya Maeda
Location: Binhai Hall
Chair: Geoff Tucker, University of Sheffield (Emeritus) and Simcyp Ltd, Sheffield, UK

10:00-10:30 | Refreshment and View Posters
Location: Meeting Centre Foyer

10:30-12:00 | Workshop 3: DMPK - Regulatory Perspectives
Location: Multimedia Room
Co-chairs: Qingli Wang, State Food and Drug Administration, Beijing, China; Wei Tang, CMP, China
   10:30-11:00 | S33. Revision of Japanese Guidance on Drug interaction Studies and its Basic Principle
   Yasuo Ohno, National Institute of Health Sciences, Tokyo, Japan
   11:00-11:30 | S34. ADME Data for IND and NDA Filing in China: Study Design, Experimental Procedures and Data Reporting
   Dafang Zhong, Shanghai Institute of Materia Medica, CAS, Shanghai, China
   11:30-12:00 | S35. The Role of Ethnicity in Variability in Response to Drugs - A Clinical Pharmacology Perspective
   Shiew Mei Huang, USFDA, Silver Spring, Maryland, USA

10:30-12:00 | Symposium 9: Structure-Function Relationships of Cytochromes P450
Concurrent with Workshop 3
Location: Binhai Hall
Co-chairs: Eric Johnson, The Scripps Research Foundation, La Jolla, California, USA; Hongjiong Zhang, Suzhou University, Suzhou, China
   10:30-11:00 | S36. Probing Cytochrome P450 Structure Function Relationships Using X-ray Crystallography
   Eric Johnson, The Scripps Research Foundation, La Jolla, California, USA
   11:00-11:30 | S37. Structure-Function Relationships among the Human CYP4 Enzymes
   Allan Rettie, University of Washington, Seattle, Washington, USA
   11:30-12:00 | S38. Predictive SAR of P450 Enzymes
   Yasushi Yamazoe, Food Safety Commission, Cabinet Office, Government of Japan, Tokyo, Japan
12:00-13:00 | Industry Sponsored Symposia
Location: Binhai Hall-Corning & Multimedia Room-TBD

13:00-14:00 | Posters and Exhibitions
Location: Meeting Centre Foyer

14:00-15:30 | Symposium 10: Pharmacogenetics/Genomics: A Regional Perspective
Location: Binhai Hall
Co-chairs: Jae-Gook Shin, Inje University, College of Medicine, Busan, Korea; Min Huang, Sun Yat-sen University, Guangzhou, China
14:00-14:30 | S39. Pharmacogenomics of Antiplatelet Therapy in Asian Patients
Ho-Sook Kim, Inje University, College of Medicine, Busan, Korea
14:30-15:00 | S40. HLA Polymorphisms in Asian Populations
Wichittra Tassaneeyakul, Khon Kaen University, Khon Kaen, Thailand
15:00-15:30 | S41. Application of Pharmacogenomics to Personalized Medicine
Min Huang, Sun Yat-sen University, Guangzhou, China

14:00-15:30 | Symposium 11: Active and Reactive Metabolites: Considerations for Drug Discovery and Therapeutics
Location: Multimedia Room
Co-chairs: Tom Baillie, University of Washington, Seattle, Washington, USA; Guorong Fan, Second Military Medical University, Shanghai, China
14:00-14:30 | S42. Establishment of Animal Model of Drug-induced Liver Injury – Involvement of Immune- and Inflammatory-related Factors and P450-mediated Metabolism
Tsuyoshi Yokoi, Nagoya University, Nagoya, Japan
14:30-15:00 | S43. Metabolic Activation and Pulmonary Toxicity of Bisbenzyliisoquinoline Alkaloids
Jian Zheng, Seattle Children’s Hospital, Seattle, Washington, USA
15:00-15:30 | S44. Reactive Metabolites in Drug Discovery and Development: Approaches and Risk Mitigation
Tom Baillie, University of Washington, Seattle, Washington, USA

15:30-16:00 | Refreshment and View Posters
Location: Meeting Centre Foyer

16:00-17:30 | Symposium 12: Novel Aspects of Conjugating (Phase 2) Enzymes
Location: Binhai Hall
Co-chairs: John Miners, Flinders University, Bedford Park, Australia; Zhenqing Zhang, Beijing Institute of Pharmacology and Toxicology, Beijing, China
16:00-16:30 | S45. Glucuronidation and Glucosidation as Complementary Metabolic Pathways
John Miners, Flinders University, Bedford Park, Australia
16:30-17:00 | S46. Stereoselectivity in UDP-Glucuronosyltransferase Pharmacogenetics
Su Zeng, College of Pharmaceutical Sciences, Zhejiang University, Hangzhou, China
17:00-17:30 | S47. Novel Functions of Glutathione S-transferases
Philip Board, Australia National University, Canberra, Australia

17:30-18:00 | Poster Awards Session & Closing Remarks
Location: Binhai Hall
Information for Exhibitors and Sponsors

Thank you for participating in the 5th Asia Pacific ISSX Meeting at Binhai One Hot Spring Resort on May 9-12, 2014! Below you will find information for shipment and install/dismantle of your booth. Frank Fung and MICE Partners will serve as the organizing company for the meeting.

Exhibit Booth

The expo will be held on May 10-12, 2014. The exhibits will be located in the main lobby area of the 1st floor of the Meeting Center. Each exhibitor will be supplied with a 2M deep, 3M long by 2.5M high scheme booth, with one table and 2 chairs.

Exhibitors are liable for any damage caused to buildings, floors, walls, and columns or to the shell scheme panels. Exhibitors may not apply paint, lacquer, adhesives or coating to building columns or floors.

All extra requirements, e.g. special decoration, extra lighting, furniture, LCD, plasma TV etc, not provided above, should be ordered separately. They are supplied at extra costs as listed below.

Please note: The exhibit area is not secure. Exhibitors are liable for ensuring their goods and materials are secured and or stored safely. MICE Partners and APISSX 2014 organizers will not be held liable for any vendor materials that may be damaged or missing.

Exhibit Hours

Although the layout of the Booth Exposition enables free-access to vendor and booths throughout the conference, the vendors will be required to be at their exhibit space during the following official exhibit hours:

May 10-12, 12:00 am - 14:00 pm

Sunday, May 11, 12:00 am - 14:00 pm

Move-in and Move-out

Move-in: Friday, May 9, 16:00 pm -19:00 pm

Move-out: Monday, May 12, 14:00 pm - 17:00 pm

Booths must be setup no later than 8:30 am on Saturday morning. All booths and materials must be dismantled and removed no later than 18:00 pm on Monday.

Shipping Instructions

Ship your booth materials to the address to the attention of the Conference Service Manger of the hotel. Materials must arrive by May 5, 2014. Make sure that YOUR COMPANY NAME and APISSX 2014 is clearly marketed on the outside of your shipping packages. APISSX 2014 Organizers and MICE Partners assume no responsibility for items shipped to venue by the sponsor/exhibitor company. It is highly recommended that sponsor/exhibitor company carry all necessary insurance to protect against damage, loss, theft, etc.

Please ship your exhibit materials to:

Binhai One Hot Spring Resort Tianjin

Attn: Miss Jia Liu
Be sure that the following information appears on the outside of your packages:

**Hold for APISSX 2014 / [Your Company Name]**

Miss Jia Liu's contact information is as follows:

Cell: 86-15802204773  T 86-22-25228888  F 86-22-25226853

E: liujia@binhailone.com

**Additional Exhibit Options**

We are very pleased to provide high-quality services for your exhibit needs. Please select the service you require and contact Frank Fung to place your order. If you have any question, please contact with us at any time.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
<th>Quotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy-pull Banner Stand</td>
<td>0.8M(W) x 2M(H)</td>
<td>RMB400/set</td>
</tr>
<tr>
<td>Plasma or LCD TV</td>
<td>42” with plasma stand, LG</td>
<td>RMB1000/set/day</td>
</tr>
<tr>
<td>LCD monitor</td>
<td>17”, LG or Samsung</td>
<td>RMB500/set/day</td>
</tr>
<tr>
<td>Projector</td>
<td>Sanyo 3000 ANSI with one 100 Screen</td>
<td>RMB1200/set/day</td>
</tr>
<tr>
<td>Laptop</td>
<td>IBM P4</td>
<td>RMB500/set/day</td>
</tr>
<tr>
<td>Additional Electric</td>
<td>One (1) 5A/220V socket</td>
<td>RMB50/set</td>
</tr>
</tbody>
</table>
Posters Session Information

There will be poster session through May 10-12. Authors must be in attendance at their posters during the poster sessions. Also, remember to take any business cards that are in your envelope - these people are requesting reprints of your abstract.

The poster size can be 0.9 meter wide by 2 meter high, or within the size.

May 10: 97 posters (Analytical to Drug Discovery and Development)
May 11: 105 posters (Drug Interaction to Metabolism)
May 12: 90 posters (Non-P450 Phase I Enzymes to Transporters)

The set-up time will be 8:00-10:00 for each day; the break-down time will be 18:00-19:00 for each day.

Venue Information
Attendees traveling to the 5th AP-ISSX Meeting 2014 will want to arrive into the Tianjin Binhai International Airport (TSN). The Binhai One Hot Spring Resort, Tianjin is a five-star resort hotel with an integration of accommodation, catering, conference, spa, sports, leisure and health care. It is located at Huanggang ecological innovation and conservation zone within Binhai New Area in Tianjin and at the north of Beitang Toll Station with an advantageous location and convenient transportation.

酒店地处天津市滨海新区黄港休闲居住区，位于京津高速公路北塘收费站北侧，环境优美，出行便利。- 距离塘沽火车站约 15.4 公里；- 距离天津港客运码头约 22.1 公里；- 距离天津滨海国际机场约 31.3 公里；- 距离天津站（东站）约 43.7 公里。
滨海一号温泉度假酒店
地址：天津市塘沽区京津二线北塘出口
北侧
电话：022-25226956
传真：022-25226906
预定邮箱：yrmxiaobu@binhaione.com
If you are from/in Beijing, there will be two ways for you to Tianjin.

1. You can take shuttle bus at Beijing International Airport to Tianjin, please visit http://www.bcia.com.cn/traffic/airbus/ for details.
2. You can take bullet train from Beijing South Railway Station to Tianjin Railway Station. Please visit www.12306.cn for details.

If you are from/in Tianjin, there will be two ways for you to the Binhai One Hot Spring Resort.

1. You can take Subway Line 9, and get off at Tanggu Station. We will arrange shuttle bus there at 10:00am to 17:00pm on May 9. You also can take taxi from Tanggu Station, about RMB 36 to the Resort.

2. You can take taxi from Tianjin International Airport, about RMB 130 to the Resort.