

# Biomedical

Michigan China Biomedical Forum 2018

Ann Arbor Marriott Ypsilanti at Eagle Crest  
1275 S Huron Street  
Ypsilanti MI 48197  
[www.marriott.com/dtwys](http://www.marriott.com/dtwys)

August 12 - 16 , 2018

## Sunday, August 12, 2018

Guests are arriving in Ann Arbor Marriott Ypsilanti at Eagle Crest.

The registration desk will be open in the hotel lobby at 3:00 pm

6:00 pm – 9:00 pm *Welcome Buffet Dinner at Ann Arbor Marriott Ypsilanti*  
*Located in the Terrace as well as seating outside*

## Monday, August 13, 2018

6:45 am – 7:45 am *Breakfast (Roy E. Willbanks Ballroom)*

7:50 am – 8:00 am *Group Photo on the driving range of golf course*  
*(3 min walk from lobby)*

8:00 am – 8:30 am **Welcome and Opening Ceremony** *(Roy E. Willbanks Ballroom)*  
*Chaired by Dr. Eugene Chen, Dr. Shaomeng Wang and Dr. Weiping Zou*

- Welcome remarks by **Dr. S. Jack Hu**, Vice President of Research, University of Michigan
- Welcome remarks by **Dr. Bishr Omary**, Executive Vice Dean for Research, and Chief Scientific Officer, Michigan Medicine

**Plenary Session 1:** *Chaired by Dr. S. Jack Hu, Vice President for Research, J. Reid and Polly Anderson Professor of Manufacturing, University of Michigan (UM), Member of National Academy of Engineering and Dr. Duanqing Pei, President at the Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences*

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- 8:30 am – 9:00 am **Keynote Speech I**  
*Dr. Weihong Tan, Distinguished Professor, Hunan University/University of Florida, a Member of Chinese Academy of Science*  
**The Foundation of Molecular Medicine – A Chemical Biology Approach**
- 9:00 am – 9:30 am **Keynote Speech II**  
*Dr. Goncalo Abecasis, Professor of Biostatistics, University of Michigan School of Public Health, Vice-President, Analytical Genomics and Data Sciences, Regeneron Pharmaceuticals, Member of National Academy of Medicine*  
**Sequencing 100,000s of Human Genomes**
- 9:30 am – 10:00 am **Keynote Speech III**  
*Dr. Kunliang Guan, Distinguished Professor in the Department of Pharmacology and Moores Cancer Center at UCSD*  
**The Hippo pathway in cell growth, organ size, and cancer**
- 10:00 am – 10:20 am *Coffee and tea break*
- Plenary Session 2:** *Chaired by Dr. Shaomeng Wang, Warner-Lambert/Parke-Davis Professor in Medicine, Director, Cancer Drug Discovery at the University of Michigan, and Dr. Weihong Tan, Distinguished Professor, Hunan University/University of Florida, a Member of Chinese Academy of Science*
- 10:20 am – 10:50 am **Keynote Speech IV**  
*Dr. Qianjin Lu, President of Chinese Dermatology Society and Chair of the Department of Dermatology, Xiangya Medical School*  
**Epigenetic Changes in Autoimmune Diseases**
- 10:50 am – 11:20 pm **Keynote Speech V:**  
*Dr. Weiping Zou, Charles B. de Nancrede Professor of Surgery, Immunology and Biology, the University of Michigan, Chairperson of American Association for Cancer Research Cancer Immunology (CImm)*  
**Cancer immunotherapy: past, present, and future**
- 11:20 am – 11:50 am **Keynote Speech VI**  
*Dr. Arul Chinnaiyan, Director, Michigan Center for Translational Pathology; S.P. Hicks Endowed Professor of Pathology, Member of National Academy of Medicine*  
**The Application of Integrative Sequencing for Precision Oncology**
- 12:00 pm– 1:30 pm *Lunch (Garden Marquee)*

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1:30 pm – 3:00 pm    **Panel Discussion: From Innovative Medicine to Drug Development: New Frontiers and Challenges**

**Moderators:**

1:30 pm – 1:35 pm    **Eugene Chen**, Huetwell Professor of Cardiovascular Medicine, University of Michigan, and **Renfeng Guo**, CSO and Co-Founder of InflaRx

**Panelists:**

1:35 pm – 1:50 pm    **Dr. Ed Pagani**, *Associate Director, Health Technologies, UM Office of Tech Transfer*  
**Working with the Technology Transfer Office to Protect, Develop and Commercialize your Ideas to Improve and Lower the Cost of Patient Care**

1:50 pm – 2:00 pm    **Dr. Duxin Sun**, *Searle Endowed Professor of Pharmaceutical Sciences, UM*  
**Drug optimization impacts the success/failure of drug discovery and development**

2:00 pm – 2:10 pm    **Dr. Yang Liu**, *Division Head, Institute of Human Virology, Division of Immunotherapy, University of Maryland*  
**OncoImmune and the long march of Oncoimmunology**

2:10 pm – 2:20 pm    **Dr. Renfeng Guo**, *CSO and Co-Founder of InflaRx*  
**Antibody Drug Development: Lessons leading to Experiences**

2:20 pm – 2:30 pm    **Dr. Shaomeng Wang PhD**, *Warner-Lambert/Parke-Davis Professor in Medicine, Director, Center for Therapeutic Innovation, University of Michigan*  
**Academic Drug Discovery: Opportunities and Challenges**

2:30 pm – 3:30 pm    Panel Discussion: Q&A

3:00 pm – 3:15 pm    *Coffee and tea break*

3:15 pm – 5:30 pm    **Concurrent Sessions**

**Cancer Biology** (*Roy E. Willbanks Ballroom*)

- Chaired by Dr. Suling Liu, Dr. Weiping Zou and Dr. Jian Zhang

3:15-3:35            Dr. Jian Zhang, SUSTech Medical School  
Targeting the tumor microenvironment in prostate cancer bone metastasis

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- 3:35-3:55 Dr. Qi Cao, Northwestern University  
A novel role for Polycomb group protein BMI1 in prostate cancer
- 3:55-4:15 Dr. Guozhi Xiao, SUSTech Medical School  
Kindlin-2 in Osteocytes Controls Bone Homeostasis
- 4:15-4:35 Dr. Yang Mao-Draayer, University of Michigan  
Emerging Understanding of Mechanisms of Action of  
Immunotherapy in Multiple Sclerosis
- 4:35-4:55 Dr. Zhao-Qiu Wu, China Pharmaceutical University  
A Zeb1/p53 signaling axis in stromal fibroblasts promotes  
mammary epithelial tumours
- 4:55-5:15 Dr. Ming Luo, University of Michigan  
Defining and Exploiting Metabolic Vulnerabilities of Distinct  
Breast Cancer Stem Cell States
- 5:15-5:30 Dr. Yu Liu, Sichuan University  
The impact of chromosome 17p deletions on cancer biology

**Metabolic Disease (Salon 1)**

- Chaired by Dr. Jun Wu, Dr. Ling Qi and Dr. Jiandie Lin
- 3:15 - 3:35 Dr. Fang Hu, Xiangya Medical School  
New Regulators of Adipose Tissue Browning
- 3:35 – 3:55 Dr. Zhuoxian Meng, Zhejiang University  
Chromatin remodeling checkpoint couples skeletal muscle  
bioenergetics to systemic energy homeostasis
- 3:55 - 4:15 Dr. Wei-Zhen Zhang, University of Michigan  
Gastric X/A like cells in health and diseases
- 4:15 - 4:35 Dr. Kezhong Zhang, Wayne State University  
Physiological ER Stress Response in Energy Homeostasis
- 4:35 – 4:55 Dr. Deyu Fang, Northwestern University  
The roles of HRD1-ERAD in inflammation and metabolic  
regulation

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4:55 - 5:15 Dr. Amy Chang, University of Michigan  
Mitochondrial Biogenesis is an Adaptive Response to ER Stress

5:15 – 5:30 Dr. Ling Qi, University of Michigan  
Physiological role of ER-associated degradation (ERAD)

6:30 pm- 9:00 pm: *Alumni Reception and Banquet at the University of Michigan Museum of Art  
(Transportation will be provided)  
Dinner for invited guests and paid registrations only*

- Welcome remarks by **Dr. Carol R. Bradford**, Executive Vice Dean for Academic Affairs, and Chief Academic Officer, Michigan Medicine
- Welcome remarks by **Eric Barritt**, Associate Vice President and Chief Development Officer, Michigan Medicine

**Tuesday, August 14, 2018**

6:45 am – 7:45 am Breakfast (Roy E. Willbanks Ballroom)

**Plenary Session 3:** *Chaired by Dr. Weiping Zou, Charles B. de Nancrede Professor of Surgery, Immunology and Biology, the University of Michigan, and Dr. Qianjin Lu, President of Chinese Dermatology Society and Chair of the Department of Dermatology, Xiangya Medical School*

8:00 am – 8:30 am **Keynote Speech VII**  
*Dr. Duanqing Pei, President at the Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences*  
**Lessons and Insights From Reprogramming CELLS**

8:30 am – 9:00 am **Keynote Speech VIII**  
*Dr. Peter Ma, Richard H Kingery Endowed Collegiate Professor at the Department of Biologic & Materials Science, University of Michigan Dental School*  
**Biomimetic environment for stem cells and regeneration**

9:00 am – 9:30 am **Keynote Speech IX**  
*Dr. Ming Lei, Executive Director of the Institute of Precision Medicine at Shanghai Jiao Tong University,*  
**Structural insight into precursor tRNA processing by RNase P**

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- 9:30 am – 10:00 am **Keynote Speech X**  
*Dr. Yi Sun, Dean of Translation Medicine, Zhejiang University*  
**Drug discovery effort in targeting UBE2F-SAG-CUL5 E3 ligase**
- 10:00 am – 10:20 am *Coffee and tea break*
- 10:20 am – 11:50 am **Panel Discussion: Biomedical Research Collaborations Between UM and China: Opportunities and Challenges** (*Roy E. Willbanks Ballroom*)  
**Moderators:** **Dr. Joe Kolars**, *Senior Associate Dean, UM Medical School* and **Dr. Chuanwu Xi**, *UM-BICI Director*
- 10:20 am – 11:40 am **Dr. Joe Kolars**, *Senior Associate Dean, UM Medical School*  
**Update Michigan Medicine Global REACH and China**
- 10:40 am – 11:45 am **Dr. Amy Huang**, *Director, UMHS China Programs*  
**Update UM-Xiangya Physician Scientist Training Program**
- 10:45 am – 11:50 am **Dr. Chuanwu Xi**, *UM BICI Director*  
**Update UM-Beijing Institute of Collaborative Innovation Program**
- 10:50 am – 10:55 am **Dr. Weihong Tan**, *Professor, Hunan University/University of Florida*  
**Career Development in China**
- 10:55 am – 11:00 am **Dr. Yi Sun**, *Dean of Translation Medicine, Zhejiang University*  
**Research Opportunity for Translational Medicine in China**
- 11:00 am – 11:05 am **Dr. Duanqing Pei**, *President, Guangzhou Institutes of Biomedicine and Health*  
**From UM to GIBH**
- Panelists:** **Dr. Amy Huang**, *Director, UMHS China Programs*  
**Dr. Weihong Tan**, *Professor, Hunan University/University of Florida*  
**Dr. Yi Sun**, *Dean of Translation Medicine, Zhejiang University*  
**Dr. Eugene Chen**, *Frederick Huetwell Professor of Cardiovascular Medicine*  
**Dr. Shaomeng Wang**, *Warner-Lambert/Parke-Davis Professor in Medicine*  
**Dr. Duanqing Pei**, *President, Guangzhou Institutes of Biomedicine and Health*
- 11:05 am – 11:50 am Panel Discussion: Q&A
- 12:00 pm – 1:30 pm *Lunch (Garden Marquee)*

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1:30 pm – 3:30 pm **Concurrent Sessions**

**Drug Discovery and Development** (*Auditorium 1*)

- Chaired by Dr. Dajun Yang, Dr. Renfeng Guo and Dr. Chuanwu Xi

- |           |   |
|-----------|---|
| 1:30-1:50 | Renfeng Guo, CSO and Co-Founder of InflaRx<br>Blocking C5a: from Bench to Bedside   |
| 1:50-2:10 | Chuanwu Xi, University of Michigan<br>Development of NO-releasing polymers for eradicating biofilm-related infections                                 |
| 2:10-2:30 | Gordon Tang, VP of Discovery, Ascentage Pharma<br>Targeting capsid assembly as a novel anti-HBV therapy: an industry case study                       |
| 2:30-2:50 | Dr. Yongqun He, University of Michigan<br>Ontology Development and Applications for Systematic Biomedical Data and Knowledge Integration and Analysis |
| 2:50-3:10 | Dr. Shaomeng Wang PhD, University of Michigan<br>PROTAC-Induced Protein Degradation: A new paradigm in drug discovery                                 |
| 3:10-3:30 | Dr. Eugene Chen, University of Michigan<br>Nitro-fatty acid: from discovery to clinical trials  |

**Neuroscience** (*Auditorium 2*)

- Chaired by Dr. Bo Duan, Dr. Haoxing Xu and Dr. Shawn Xu

- |           |   |
|-----------|---|
| 1:30-1:50 | Dr. Bing Ye, University of Michigan<br>The roles of Down syndrome genes in neuronal development and brain disorders             |
| 1:50-2:10 | Dr. Lijun Kang, Zhejiang University<br>TMC proteins modulate membrane excitability through a background sodium-leak conductance |
| 2:10-2:30 | Dr. Yu Wang, University of Michigan<br>Focal Cortical Dysplasia (FCD): From Bedside to Bench and Back                           |

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- 2:30-2:50 Dr. Kejie Yin, University of Pittsburgh  
Regulatory microRNAs in neurovascular injury and repair after stroke
- 2:50-3:10 Dr. Bo Duan, University of Michigan  
The cells and circuitry for chronic itch in mice
- 3:10-3:30 Dr. Haoxing Xu, University of Michigan  
Molecular physiology of lysosomes

3:30 pm – 5:30 pm **Concurrent Sessions**

**Cancer Biology Tumor Immunology** (Auditorium 1)

- Chaired by Dr. Pan Zheng, Guozhi Xiao, and Dr. Yi Sun

- 3:30-3:50 Yang Liu, University of Maryland at Baltimore  
Translating CD24
- 3:50-4:10 Jindan Yu, Northwestern University  
Catalytic and Non-catalytic Roles of EZH2 in Prostate Cancer and the Therapeutic Implications
- 4:10-4:30 Min Zheng, Zhejiang University  
Regulation of TRAE2-Neddylation pathway on HBV transcription and replication
- 4:30-4:45 Jing Huang, Shanghai 9<sup>th</sup> Peoples Hospital  
Structural basis of histone modifications on nucleosome
- 4:45-5:00 Yuehua Huang, Zhongshan University  
Efficacy of chemoembolization with or without adoptive immunotherapy using dendritic cells
- 5:00-5:15 Xiaosong Wang, University of Pennsylvania  
Universal concept signature analysis for causal gene and pathway discovery in cancer
- 5:15-5:30 Pan Zheng, University of Maryland at Baltimore



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Modeling irAE

**Genome Editing, Epigenetics, Cell Plasticity and Regeneration** (Auditorium 2)

- Chaired by Dr. Yali Dou, Dr. Zhong Wang and Dr. Bo Yang

- 3:30-3:50 Dr. Jianping Fu, University of Michigan  
Synthetic human embryo-like structures: A new paradigm for reproductive and regenerative medicine
- 3:50-4:10 Dr. Yali Dou, University of Michigan  
Reprogramming totipotent cells
- 4:10-4:30 Dr. Lin-Yu Lu, Zhejiang University  
The role of BRCA1 during spermatogenesis
- 4:30-4:50 Dr. Jie Xu, University of Michigan  
Transgenic rabbits for translational research
- 4:50-5:10 Dr. Cunming Duan, University of Michigan  
Transgenic and mutant zebrafish for phenotype-based discovery and drug screening
- 5:10-5:30 Dr. Zhong Wang, University of Michigan  
Connecting epigenetics and energy metabolism in heart repair and regeneration

6:30 pm- 9:30 pm:

Dinner at Stonebridge Golf Club  
1825 Clubhouse Dr. Ann Arbor, MI 48108  
[www.StonebridgeGolfClub.net](http://www.StonebridgeGolfClub.net)  
(Transportation will be provided)  
*Dinner for invited guests and paid registrations only*

**Wednesday, August 15, 2018**

*This day is for more individual scientific meetings among alumni and UM faculty members to advance scientific collaborations.*

9:00 am – 12:00 pm Individual Meeting for Scientific Discussion

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<i>12:00 pm – 1:30 pm</i>	<i>Lunch with your individual meeting host</i>
1:30 pm – 3:30 pm	Visiting labs at the University of Michigan Arranged by the meeting organizers
4:30 pm – 5:00 pm	Wrap-up Meeting and Closing Remarks
<i>6:00 pm – 8:30 pm</i>	<i>Private Dinner</i>

**Thursday, August 16, 2018**

Departure