

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No. 19

**Natural Products and Traditional Medicine**  
**Room: 302AB**

Chair: Shishan Yu



Michael Spedding



**Day 1 October 27<sup>th</sup> (Saturday) 13:30 – 17:00**

Time	Speaker	Title
13:30-14:00	<b>Shishan Yu</b> <i>Institute of Materia Medica, CAMS, China</i>	Bioactive Natural Products from Chinese Toxic Plants
14:00-14:30	<b>Michael Spedding</b> <i>Spedding Research Solutions, France</i>	Can Natural Products and Traditional Medicine make a breakthrough to Precision Medicine?
14:30-15:00	<b>Yi Tang</b> <i>University of California Los Angeles, USA</i>	New Pericyclic Reactions From Natural Product Biosynthetic Pathways
15:00-15:30	<b>Tea Break</b>	
15:30-16:00	<b>Eric W. Schmidt</b> <i>University of Utah, USA</i>	Symbiosis: Organisms working together to create new chemicals
16:00-16:30	<b>Yongsheng Che</b> <i>Beijing Institute of Pharmacology and Toxicology, China</i>	A Rational Approach to the Discovery of Bioactive Natural Products from Fungi
16:30-17:00	<b>Lan Zhang</b> <b>Xuan-wu Hospital of Capital Medical University, China</b>	R&D of Taisi for Alzheimer's Disease --- from Pre-clinical to Clinical



### Shishan Yu

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Professor Shi-Shan Yu is the deputy director of IMM, CAMS & PUMC and the chairman of the State Key Laboratory of Bioactive Substance and Function of Natural Medicines. His main research interests focus on the discovery, structures and functions of bioactive substances from natural products, and the development of innovative drugs based on natural medicines. He has authored 160+ scientific publications including *Angew. Chem. Int. Ed.*, *Org. Lett.*, *J. Med. Chem.*, et al., five monographs and ten licensed patents, and his research won three National Science and Technology Progress Awards.



### Yi Tang

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Professor Yi Tang received his Ph.D. in Chemical Engineering from California Institute of Technology under the guidance of Prof. David A. Tirrell. After NIH postdoctoral training in Chemical Biology from Prof. Chaitan Khosla at Stanford University, he started his independent career at University of California Los Angeles in 2004. He is currently the Chancellor Professor at the Department of Chemical and Biomolecular Engineering at UCLA, and holds joint appointments in the Department of Chemistry and Biochemistry; and Department of Bioengineering.



### Lan Zhang

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Chairman of department of pharmacy, Vice president of clinical trial center, Xuan-wu Hospital of Capital Medical University. She is selected as Beijing Health and Technical Personal of High-level Plan-academic pacesetter, New Star Program of Beijing Science and Technology Committee and the New Century Hundred, Thousand and Ten Thousand Talent Project.



### Michael Spedding

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Michael Spedding PhD, HonFBPS, is secretary general of IUPHAR, and President of Spedding Research Solutions (SRS), a company specialised in 'impossible diseases'. He has been associated with 11 compounds going into clinical trials. SRS is now developing a drug for ALS, which has been granted orphan designation by the EMA.



### Eric W. Schmidt

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Professor Schmidt is the Droschkey Endowed Chair in Pharmacy at the University of Utah. He studies the chemistry, biosynthesis, and pharmaceutical potential of natural products. Much of his lab focuses on the symbiotic interaction between marine animals and bacteria, and the biologically active compounds that they produce. This research requires a wide array of techniques, including metagenome sequencing, biochemical analysis, and organic chemistry. Understanding these interactions provides insights into microbial symbiosis and leads to new tools and compounds for pharmaceutical innovation.



### Yongsheng Che

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Professor and Principal Investigator of State Key Laboratory of Toxicology and Medical Countermeasures, Beijing Institute of Pharmacology and Toxicology. He joined the Institute of Microbiology, Chinese Academy of Sciences as a Professor in 2005, and moved to the current institution in 2012. His research interests include discovery of bioactive natural products from fungi, investigation of their ecological and pharmacological implications, structure modification of lead compounds as potential therapeutics, and biosynthesis of important classes of bioactive natural products.