

**Sino-German Symposium on Novel NMR-based Methods for Organic Structure Determination (GZ 1104)**

中德双边研讨会GZ 1104

**核磁共振新方法在有机化学中的应用及前沿**

Symposium Program

Nov. 18−22, 2014

Wenzhou, China

Organizers: Wenzhou University, China

Max-Planck-Institute for Biophysical Chemistry, Germany

Sponsor: the Chinesisch-Deutsche Zentrum für Wissenschaftsförderung (CDZ)

Symposium Program

|  |
| --- |
| Nov. 18, 2014 (Tuesday) |
| Time | Program | Chair person |
| 09:00-23:10 | Check inHotel lobby  | Xinxiang Lei |
| 12:00-13:00 | Lunch |  |
| 18:00-20:00 | Dinner |  |
| Nov. 19, 2014 (Wednesday) |
| 8:30-8:50 | Opening Ceremony | Ren-Xiang Tan |
| 8:50-9:10 | Picture-taking  |  |
| *Session 1, Chair:* **Prof. Dr.** Ren-Xiang Tan |
| 9:10-9:40 | Application of RDCs and RCSAs for configuration determination and development of chiral gels | Christian Griesinger | Max-Planck-Institute for Biophysical Chemistry |
| 9:40-10:10 | Discovery of Structurally Diverse and Biologically Important Components from Chinese Medicinal Plants | Jian-Min Yue(岳建民) | Shanghai Institute of Materia Medica, Chinese Academy of Sciences |
| 10:10-10:40 | Progress in the Configurational and Conformational Analysis of Small Organic Molecules Using a Combination of Residual Dipolar Couplings, NOE Derived Distances and 3*J*HH Coupling Constants | Roberto Gil | Carnegie Mellon University |
| 10:40-11:10 | The Novel Structure from Medicinal Plant and its Functions | **Shishan Yu**（庾石山） | Chinese Academy of Medical Sciences and Peking Union Medical College. |
| 11:10-11:40 | Helically chiral polyacetylenes as enantiomer differentiating alignment media | Michael Reggelin | Institute for Organic Chemistry, TU Darmstadt |
| 11:40-12:10 | Nitrogen and Halogen Compounds of Marine Microbial Origin | Wei-Ming Zhu（朱伟明） | Ocean University of China |
| 12:10-13:30 | Lunch (Buffet) |  |  |
| *Session 2, Chair:* **Prof. Dr.** Jian-Min Yue; Prof. Dr. Michael Reggelin |
| 13:30-14:00 | Toxins and Pigments from Higher Fungi in China | Ji-Kai Liu(刘吉开) | Kunming Institute of Botany, Chinese Academy of Sciences |
| 14:00-14:30 | Order, Disorder and Motion in Molecules - Studied by NMR and Molecular Dynamics | Ulrich Sternberg | Karlsruhe, Institute of Technology (KIT) |
| 14:30-15:00 | Bioactive compounds from the Chinese liveworts | Hong-Xiang Lou（娄红祥） | Shandong University |
| 15:00-15:30 | Structural and chiroptical analysis of natural products | Uwe Reinscheid | Max-Planck-Institute for Biophysical Chemistry |
| 15:30-15:45 | Coffee Break |  |  |
| 15:45-16:15 | Chemical constituents of Gymnotheca species the endemic plants of Western China | Yan Zhou(周燕） | Chengdu Institute of Biology, Chinese Academy of Sciences |
| 16:15-16:45 | Paramagnetic effects on structural analysis by NMR spectroscopy | XunchengSu（苏循成） | Nankai University |
| 16:45-17:15 | NMR studies on catalytic mechanisms during natural product biosynthesis  | Chun-YangCao（曹春阳） | Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences |
| 17:15-17:45 | Recent NMR methodologies for unravelling catalytic mechanism: from PHIP to RDCs | ChristopheFares | Max-Planck-Institut für Kohlenforschung |
| 18:00 | Dinner |
| Nov.20, 2014, Thursday |
| *Session 3, Chair:* **Prof. Dr.** Christian Griesinger; Prof. Dr. Yuanjiang Pan |
| 8:30-9:00 | NMR-powered natural products chemistry | Ren-XiangTan（谭仁祥） | Nanjing University |
| 9:00-9:30 | Anisotropic NMR-Parameters and Structure Elucidation of Small Organic Compounds | Burkhard Luy | Karlsruhe Institute of Technology (KIT) |
| 9:30-10:00 | Stilbene Oligomers from *Parthenocissus laetevirens*: Isolation, Biomimetic Synthesis, Absolute Configuration, and Implication of Antioxidative Defense System inthe Plant | Yuanjiang Pan（潘远江） | Zhejiang University |
| 10:00-10:30 | Marine Natural Products as a Challenge for NMR-based Structure Elucidation | **Matthias** Köck | Alfred-Wegener-Institute |
| 10:30-10:45 | Coffee Break |  |  |
| 10:45-11:15 | New methodologies for structural elucidation of organic molecules using residual dipolar couplings. | Armando Navarro-Vazquez | Universidade Federal de Pernambuco |
| 11:15-11:45 | Application of Quantitative NMR in Natural Products Chemistry | Kaifeng Hu(胡凯锋) | Kunming Institute of Botany, Chinese Academy of Sciences |
| 11:45-12:15 | Towards determination of the absolute configuration using RDC and MD simulations. | Han Sun(孙涵） | Max-Planck-Institute for Biophysical Chemistry |
| 12:15-13:30 | Lunch  |  |  |
| *Session 4,* ***Young Scholar Panel****, Chair:* Dr. HanSun; Prof. Kaifeng Hu |
| 13:30-14:00 | Using Residual Dipolar Couplings to study the Structure and Dynamics of Catalytically Active Species | Volker Schmidts | Institute for Organic Chemistry, TU Darmstadt |
| 14:00-14:15 | Probing protein structure and dynamics by residual dipolar couplings | Lishan Yao（姚礼山） | Qingdao Institute of Bioenergy and Bioprocess Technology,Chinese Academy of Sciences |
| 14:15-14:30 | Pd(II) complexes for living/controlled polymerization of isocyanide. | Zongquan Wu（吴宗铨） | Hefei University of Technology |
| 14:30-14:45 | Residual dipolar couplings and paramagnetic NMR to probe weak interactions between target and fragment screening hits | Ke Ruan(阮科) | University of Science and Technology of China |
| 14:45-15:00 | Synthesis of chiral alignment media for the enantiodiscrimination of small molecules via anisotropic NMR parameter | Manuel Schmidt | Max-Planck-Institute for Biophysical Chemistry |
| 15:00-15:15 | Microbial natural products discovery and biosynthesis | Sheng-Xiong Huang（黄胜雄） | Kunming Institute of Botany, Chinese Academy of Sciences |
| 15:15-15:30 | Alignment media based on cellulose nanocrystal/ polymer composites for RDC measurements | Jia Tian（田佳） | Institute of Physical Chemistry，Georg-August-University Göttingen |
| 15:30-15:45 | Graphene Oxide-based liquid crystalline phaes as a new alignment medium for the measurement of RDCs | Xinxiang Lei（雷新响） | Wenzhou University |
| 15:45-16:00 | Coffee Break |
| 16:00-17:30 | Final Discussion and Concluding remark  | Christian Griesinger, Ren-XiangTan |
| 18:00 | Dinner |  |  |