The first round announcement of the 21st International Conference on Nitrogen Fixation (ICNF 2019)

The 21st International Conference on Nitrogen Fixation (ICNF 2019) will be held on October 10-15, 2019, on the campus of Huazhong Agricultural University, Wuhan, China. This conference has been ongoing for over 40 years and is a preeminent international forum for scientific discussion of nitrogen fixation. The outstanding experts in the NF field from all over the world will share their recent research advances to facilitate collaborations and further advances of the community of nitrogen fixation. We very much hope you can join us for the 21st ICNF in 2019.

◎ International Steering Committee (ISC)

Barbara Reinhold-Hurek, University of Bremen, Germany (Chair)
María J. Delgado, Consejo Superior de Investigaciones Científicas (CSIC), Spain
Ray Dixon, John Innes Centre, UK; Chinese Academy of Sciences, China
Sharon R. Long, Stanford University, USA
Esperanza Martínez-Romero, Universidad Nacional Autónoma de México, Mexico
Kiwamu Minamisawa, Tohoku University, Japan
Graham O’Hara, Murdoch University, Australia
John W. Peters, Montana State University & Washington State University, USA
Luis M. Rubio, Universidad Politécnica de Madrid, Spain
Igor A. Tikhonovich, All-Russia Research Institute for Agricultural Microbiology & Saint Petersburg State University, Russia
Yiping Wang, Peking University, China

◎ International Scientific Advisory Committee (ISAC)

Wenxin Chen, China Agricultural University, China
María J. Delgado, Consejo Superior de Investigaciones Científicas (CSIC), Spain
Ray Dixon, John Innes Centre, UK; Chinese Academy of Sciences, China
Rene Geurts, Wageningen University, Netherlands
Clare Gough, LIPM, Université de Toulouse, INRA, CNRS, France
Georgina Hernandez, Universidad Nacional Autónoma de México, Mexico
Éva Kondorosi, Hungarian Academy of Sciences, Hungary
Min Lin, Chinese Academy of Agricultural Sciences, China
Sharon R. Long, Stanford University, USA
Veronica Massena Reis, Embrapa Agrobiologia, Brazil
Catherine Masson-Boivin, LIPM, Université de Toulouse, INRA, CNRS, France
Ulrike Mathesius, Australia National University, Australia
Kiwamu Minamisawa, Tohoku University, Japan
Katharina Pawlowski, Stockholm University, Sweden
Fábio O. Pedrosa, Universidade Federal do Paraná, Brazil
John W. Peters, Montana State University & Washington State University, USA
Jens Stougaard, Aarhus University, Denmark
Simona Radutoiu, Aarhus University, Denmark
Barbara Reinhold-Hurek, University of Bremen, Germany
Luis M. Rubio, Universidad Politécnica de Madrid, Spain
Gary Stacey, University of Missouri, USA
Ertao Wang, Chinese Academy of Sciences, China
Yiping Wang, Peking University, China
Jindong Zhao, Peking University, China

The four-day conference focuses on a broad range of issues and challenges in the field of mechanisms, regulation, and application of nitrogen fixation.

★ Opening session (keynote speeches)
Gary Stacey (University of Missouri, USA)
Yiping Wang (Peking University, China)

★ Closing session (summary speeches)
Éva Kondorosi (Institute of Biochemistry, Biological Research Center of the Hungarian Academy of Sciences, Hungary)

★ Plenary sessions
1, Chemistry and regulation of nitrogenase;
   Chairs: John W. Peters; Sanfeng Chen
2, Free-Living, endophytic and associative nitrogen fixation;
   Chairs: Barbara Reinhold-Hurek; Jindong Zhao
3, Legume nodule development;
   Chairs: Éva Kondorosi; Jeanne M. Harris
4, Synthetic biology;
   Chairs: Sharon R. Long; Yiping Wang
5, Diversity, evolution, and genomics of nitrogen fixation in plants;
   Chairs: Ton Bisseling; Katharina Pawlowski
6, Diversity, evolution, and genomics of nitrogen fixation in bacteria;
   Chairs: Ray Dixon; Min Lin
7, Legume symbiotic signal transduction;
   Chairs: Jens Stougaard; Ertao Wang
8, Interaction of symbiosis with environments;
   Chairs: Kiwamu Minamisawa; Xuelu Wang

★ Parallel sessions
1, Global changes and nitrogen fixation systems;
   Chairs: María J. Delgado; Youguo Li
2, Autoregulation of legume nodulation;
   Chairs: Peter M. Gresshoff; Fang Xie
3, Free living nitrogen fixing organisms;
   Chairs: Changfu Tian
4, Evolution of root nodule symbiosis;
   Chairs: Rene Geurts; Zhongming Zhang
5, The legume-rhizobium interaction;
   Chairs: Simona Radutoiu; Yangrong Cao
6, Cyanobacteria and aquatic nitrogen fixation;
   Chairs: Chengcai Zhang
7, Interaction of symbiosis with hormones;
   Chairs: Krzysztof Szczyglowski; Shiyong Sun
8, Application of nitrogen fixation;
   Chairs: Luis M. Rubio; Fábio O. Pedrosa
9, Root microbiomes and nitrogen fixation;
   Chairs: Esperanza Martínez-Romero
10, Novel technology in nitrogen fixation;
   Chairs: Deqiang Duanmu; Zhipeng Zhou

© Invited Speakers (In alphabetical order of surnames)
Kasper Rojkjær Andersen (Aarhus University, Denmark)
Manuel Becana (Departamento de Nutrición Vegetal, Estación Experimental de Aula Dei, Consejo Superior de Investigaciones Científicas, Spain)
Alexandre Boscari (INRA/CNRS, Sophia Antipolis Cedex, France)
Yangrong Cao (Huazhong Agricultural University, China)
María J Delgado (Estación Experimental del Zaidín, CSIC, Granada, Spain)
Ray Dixon (John Innes Research Centre, UK)
Oliver Einsle (Albert-Ludwigs-Universität Freiburg, Germany)
Caroline S. Harwood (University of Washington, USA)
Yilin Hu (University of California, Irvine, USA)
Éva Kondorosi (Institute of Biochemistry, Biological Research Center of the Hungarian Academy of Sciences, Hungary)
Marc Libault (University of Nebraska-Lincoln, United States)
Sharon Long (Stanford University, USA)
Ulrike Mathesius (Australian National University, Australia)
Kiwamu Minamisawa (Tohoku University, Japan)
Andreas Niebel (Université de Toulouse, France)
Giles Oldroyd (John Innes Centre, United Kingdom)
Philip Poole (University of Oxford, UK)
Simona Radutoiu (Aarhus University, Aarhus, Denmark)
Dugald Reid (Aarhus University, Denmark)
Joel Sachs (University of California, USA)
Juan Sanjuan (Estación Experimental del Zaidín, CSIC, Granada, Spain)
Emanuel M. Souza (Federal University of Paraná (UFPR), Brazil)
Gary Stacey (University of Missouri, USA)
Akihiro Suzuki (Saga University, Japan)
Krzysztof Szczyglowski (AAFC-Canada)
Toshiki Uchiumi (Kagoshima University, Kagoshima, Japan)
Yiping Wang (Peking University, China)
Ertao Wang (Chinese Academy of Sciences, China)
Xuelu Wang (Huazhong Agricultural University, China)
Youning Wang (Huazhong Agricultural University, China)
Zubin Xie (Institute of Soil Science, Chinese Academy of Sciences, China)
Yongliang Yan (Chinese Academy of Agricultural Sciences, China)

※ You may also access the website: http://2019icnf.csp.escience.cn for further information and updates of the invited speakers.
The ICNF 2019 General Information

※ Time:  **October 10-15, 2019**
※ Location:  **Huazhong Agricultural University, Wuhan, China**
※ Local Organizing Committee (LOC):
Xuelu Wang (Chair), Huazhong Agricultural University, China
Yangrong Cao, Huazhong Agricultural University, China
Sanfeng Chen, China Agricultural University, China
Youguo Li, Huazhong Agricultural University, China
Xia Li, Huazhong Agricultural University, China
Yan Liang, Zhejiang University, China
Min Lin, Chinese Academy of Agricultural Sciences, China
Jeremy Murray, Chinese Academy of Sciences, China
Gary Stacey, University of Missouri, USA
Changfu Tian, China Agricultural University, China
Ertao Wang, Chinese Academy of Sciences, China
Yiping Wang, Peking University, China
Fang Xie, Chinese Academy of Sciences, China
Zubin Xie, Institute of Soil Sciences, Chinese Academy of Sciences, China
Shutong Xu, Huazhong Agricultural University, China
Zhongming Zhang, Huazhong Agricultural University, China
Zhipeng Zhou, Huazhong Agricultural University, China

※ Secretaries:  **Shiyong Sun; Duanmu Deqiang; Chunjiao Xia**

※ Contact Us:
Registration & Accommodation:  Dr. Deqiang Duanmu (端木德强)
[E-mail]  icnf2019@163.com  [Mobile]  86-18694067218
Academic Affairs (Abstract & Poster): Prof. Youguo Li (李友国)
[E-mail]  icnf2019_abstract@163.com  [Mobile]  86-15807157676
Sponsor Correspondence: Prof. Zhipeng Zhou (周志鹏)
[E-mail]  zhouzhipeng@mail.hzau.edu.cn  [Mobile]  86-13488881319
Conference website:  **http://2019icnf.csp.escience.cn**

※ Important Deadlines:
Early Registration: April 1, 2019
Standard Registration: July 1, 2019
Abstract Submission: August 10, 2019
Late Registration: September 10, 2019

The 21st International Conference on Nitrogen Fixation
Organizing committee
02-24-2019