

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.

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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 Røjkjær 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

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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

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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)

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Academic Affairs (Abstract & Poster): Prof. Youguo Li (李友国)

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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