



## Curriculum Vitae Professor Dr Jiayang Li

**Name:** Jiayang Li

**Date of birth:** 1956



Image: Markus Scholz | Leopoldina

**Research Priorities:** Plant breeding, yield increase, stress resistance in plants, key genes, transgenic plants, breeding elite types of rice

Jiayang Li is a biologist. He researches the molecular mechanisms underlying plant architecture, with a particular focus on characteristics that improve harvest yield and quality. He and his team use modern technologies to breed rice which has a high yield and a good resistance to stress.

### Academic and Professional Career

- |             |   |
|-------------|---|
| 2018        | Member, Standing Committee, National People's Congress, People's Republic of China (PRC)    |
| 2011 - 2016 | Vice Minister of Agriculture, PRC   |
| 2011 - 2016 | President, Chinese Academy of Sciences (CAS), PRC   |
| 2001 - 2016 | General Director, Institute of Genetics and Developmental Biology (IGDB), CAS, Beijing, PRC |
| 2001 - 2016 | President, Chinese Academy of Agricultural Sciences (CAAS), PRC                             |
|             | Professor and Principal Investigator, IGDB, CAS, Beijing, PRC                               |
|             | Member, CAS, PRC  |
| 2001 - 2011 | Vice President, CAS, PRC  |
| 1999 - 2004 | Director, IGDB, CAS, Beijing, PRC   |
| 1995        | Professor of Plant Molecular Genetics, IGDB, CAS, Beijing, PRC                              |
|             | Doctorate, Boyce Thompson Institute, Cornell University, Ithaca, USA                        |
| 1991        | PhD in Biology, Brandeis University, Waltham, USA   |

1984	M.Sc. in Biology, IGDB, CAS, Beijing, PRC
1982	B.Sc. in Agronomy, Anhui Agricultural University, Hefei, PRC

### **Functions in Scientific Societies and Committees**

2018	Editor in Chief, Science China Life Sciences
since 2016	Member, Board of Trustees, International Rice Research Institute (IRRI)
since 2014	Member, Editorial Board, National Science Review
since 2014	Member, Advisory Board, Chinese Science Bulletin
since 2011	Member, Advisory Board, Molecular Plant
2011 - 2016	President, CAAS, PRC
since 2008	Member, Advisory Editorial Board, Trends in Biotechnology
2006 - 2011	Vice President, Chinese Society of Environmental Sciences (CSRS), PRC
2004 - 2013	Associate Editor, Plant Molecular Biology
2004 - 2011	Vice President, CAS, PRC
2004 - 2008	Editor, Plant & Cell Physiology
2004 - 2006	Member, Board of Directors, International Society of Plant Molecular Biology
2003 - 2013	President, Genetics Society of China, PRC
since 2003	Member, Editorial Board, Cell Research
2002 - 2012	Vice President, The Crop Science Society of China (CSSC), CAAS, PRC

### **Honours and Awarded Memberships**

2020	TWAS-Lenovo Science Award, The World Academy of Sciences (TWAS)
2021	Highly Cited Researcher, Web of Science, Clarivate
2020	Highly Cited Researcher, Web of Science, Clarivate
2019	Highly Cited Researcher, Web of Science, Clarivate
2018	Highly Cited Researcher, Web of Science, Clarivate
2018	Life Science Prize, Future Science Prize, PRC
2018	Tan Kah Kee Science Award, Tan Kah Kee Science Award Foundation, Beijing, PRC
2017	State Natural Science Award First Class, PRC
2017	Outstanding Scientific Research Team Award, Qiu Shi Science & Technologies Foundation, Hong Kong, PRC

2015	Foreign Member, The Royal Society, UK
2014	Highly Cited Researcher, Clarivate Citation Laureates (previously Thomson Reuters China Citation Laureates), Clarivate
since 2014	Member, International Eurasian Academy of Sciences (IEAS)
2013	Outstanding Science and Technology Achievement Prize, CAS, PRC
since 2013	Foreign Associate, European Molecular Biology Organization (EMBO)
since 2012	Member, German National Academy of Sciences Leopoldina, Germany
since 2011	Foreign Associate, National Academy of Sciences, USA
2011	Corresponding Membership Award, The American Society of Plant Biologists (ASPB), USA
2006	Medal Lecture Award, TWAS
2005	State Natural Science Award (Second Class), PRC
2005	Cheung Kong Achievement Award, Ministry of Education of China and Li Ka Shing Foundation, Hong Kong, PRC
2004	Science and Technology Progress Award (Life Sciences), Ho Leung Ho Lee Foundation, Beijing, PRC
2004	Fellow, TWAS
2004	Award of Bioscientific Achievement, 10th International Symposium, Society of Chinese Bioscientists in America (SCBA), USA
2001	Member, CAS, PRC
1999	Member, Asia-Pacific International Molecular Biology Network (A-IMBN)

## Research priorities

Jiayang Li is a biologist. He researches the molecular mechanisms underlying plant architecture, with a particular focus on characteristics that improve harvest yield and quality. He and his team use modern technologies to breed rice which has a high yield and a good resistance to stress.

Jiayang Li researches the molecular mechanisms of the plant development and biosynthesis pathways in higher plants. He characterises and clones key genes that influence the plant height, panicle size and culm strength of rice. He is particularly interested in the molecular design of new elite types of rice. Using marker-supported selection and transgenic approaches, he aims to breed rice plants of good quality, nutritional use efficiency and with resistance to stress factors.

Jiayang Li discovered that the rapeseed element lactone can promote cell division. He cloned related genes from rapeseed mutations and developed a method with which botanical functional cells can be systematically assessed. He also researches external environmental factors for the

growth of advanced plants. In addition to his research he has held various political offices. From 2001 to 2016 he was China's Vice Minister of Agriculture.