

SFB 670



ZELL-AUTONOME IMMUNITÄT



Max Planck Institute for
Plant Breeding Research

Seminar

Tuesday, April 8, 2014, 2:00 p.m.

Prof. Dr. Jijie Chai

School of Life Sciences, Tsinghua University, Beijing

Structural Study of receptor like kinases and NOD-type receptors

Host:

Dr. Paul Schulze-Lefert, Max Planck Institute for Plant Breeding Research, Cologne

Venue:

Lecture Hall, Max Planck Institute for Plant Breeding Research, Carl-von-Linné-Weg 10, 50829 Cologne

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Prof. Dr. Jijie Chai

Structural Study of receptor like kinases and NOD-type receptors

My laboratory focuses on structural study of biological macromolecules to gain insights into their structure-function relationship. Currently we are interested in two types of molecules, receptor like kinases (RLKs) and NOD-type receptors, both of which have critical roles in host innate immunity. A long term goal of my laboratory is to understand the molecular mechanisms by which RLKs and NOD-type receptors recognize their cognate ligands and consequently become activated. In the current presentation, I will discuss several crystal structures including RLKs and NOD-type receptors and how structural biology was used to address these questions.