

COST Action CA18111 "Genome Editing in Plants"

Online lecture series

Date: May 25, 2022 – 4 PM CEST

(Upcoming lectures: June 29, August 31, September 28, October 26, November 31, 2022; 4 PM CEST)

Speaker 1



Prof. Caixia Gao – Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China

Title: Expanding the utility of precision genome editing

Speaker 2



Prof. Holger Puchta – Botanical Institute, Karlsruhe Institute of Technology (KIT), Germany

Title: Applying CRISPR/Cas in plants: from gene editing to chromosome and tissue engineering

About Prof. Caixia Gao

Prof. Caixia Gao is Principal Investigator at the Institute of Genetics and Developmental Biology, Chinese Academy of sciences in China since 2009. Before, from 1998 to 2009, she was group leader of Plant Transformation at the Research Division, Trifolium Group of DLF in Denmark, where she was also a post-doc researcher from 1997 to 1998.

The research of Prof. Caixia Gao is focused on developing novel technologies to achieve efficient and specific genome engineering and applying them to study the function of genes and modify plant traits for high-quality, disease resistance and stress tolerance in crop species.

About Prof. Holger Puchta

Prof. Holger Puchta is director of the Botanical Institute and holds since 2002 the Chair of Plant Molecular Biology and Biochemistry at the Karlsruhe Institute of Technology (KIT) in Germany. After his study of biochemistry at the University of Tübingen and his PhD at the Max-Planck-Institute for Biochemistry in Munich he joined the laboratory of Barbara Hohn at the Friedrich Miescher Institute in Basel, Switzerland before he became in 1995 group leader at the Leibniz Institute for Plant Genetics in Gatersleben (IPK). In 2000 he obtained his habilitation in genetics from the University Halle.

Prof. Holger Puchta was worldwide the first scientist to demonstrate that site-specific nucleases can be applied to induce different kinds of controlled change in plant genomes. His group elucidated major mechanisms of DNA double strand break repair and he was one of leading scientists adopting the CRISPR/Cas technology to plants. Recently his group was able to achieve another important breakthrough for breeding: CRISPR/Cas mediated plant chromosome engineering. For his work on plant genome engineering, he was named “Pioneer of Plant Biotechnology” by the Plant Biotechnology Journal and he was awarded twice with an advanced grant of the European Research Council.

How to join the lecture session?

You can register for this online lecture session by submitting your name and email here: <https://forms.gle/R4wqGqAhrKyMMyeKA>

A link to join the session will be send to you later in May.

Program of Online Lecture Series

May 25, 2022 – 4 PM CEST

Prof. Caixia Gao, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China

Prof. Holger Puchta, Botanical Institute, Karlsruhe Institute of Technology, Germany

June 29, 2022 – 4 PM CEST

Prof. Yiping Qi, Department of Plant Science and Landscape Architecture, University of Maryland, College Park, USA – *Boosting plant genome editing with a versatile CRISPR-combo system*

Prof. Avraham A. Levy, Weizmann Institute of Science, Department of Plant and Environmental Sciences, Israel – *What determines genome editing efficiency: break or repair?*

August 31, 2022 – 4 PM CEST

Prof. Jose Antonio Daros, Instituto de Biología Molecular y Celular de Plantas (IBMCP), Plant Virus Biotechnology lab, Spain

Dr. Azka Noureen, The Sainsbury Laboratory, UK

September 28, 2022 – 4 PM CEST

Dr. Jochen Kumlehn, Division of Cell Biology and Biotechnology, Research group Plant Reproductive Biology, IPK Gatersleben, Germany

Prof. Yinong Yang, Department of Plant Pathology and Environmental Microbiology, Huck Institutes of the Life Sciences, Pennsylvania State University, USA

October 26, 2022 – 4 PM CEST

Prof. Dan Voytas, Department of Genetics, Cell Biology and Development, Center for Precision Plant Genomics, University of Minnesota, USA

Dr. Concetta Licciardello, Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (CREA), Centro di ricerca Olivicoltura Frutticoltura Agrumicoltura (OFA), Italy

November 30, 2022 – 4 PM CEST

Prof. Neal Steward, Centre of Agricultural Synthetic Biology, University of Tennessee, USA

Prof. Sadiye Hayta, John Innes Centre, UK