

# ERA-Net Plant Genomics Projects

## Granted Projects- Second Call

The virtual seed: Combined mathematical, engineering and post-genomics comparative biology to model the systems biology of seed dormancy, after-ripening and germination (vSEED)

Project leader: Michael Holdsworth (University of Nottingham, United Kingdom).

Other project participants: Gerhard Leubner (Albert-Ludwigs-University Freiburg, Germany), Thomas Speck (Albert-Ludwigs-University Freiburg, Germany), Leonie Bentsink (Utrecht University, The Netherlands), Sjef Smeekens (Utrecht University, The Netherlands), Paul Knox (University of Leeds, United Kingdom), Nicola Everitt (University of Nottingham, United Kingdom), John King (University of Nottingham, United Kingdom), Andy Wood (University of Nottingham, United Kingdom)

Pattern recognition receptors: discovery, function and application in crops for durable disease control (PRR CROP)

Project leader: Cyril Zipfel (Sainsbury Laboratory, United Kingdom).

Other project participants: Alain Pugin (INRA-CNRS-UB, France), Jens Weyen (Saaten-Union, Germany)\*, Frederic Brunner together with Andrea Gust (University of Tuebingen, Germany), Pierre de Wit (Wageningen University and Research Centre, The Netherlands), Chris Ridout (John Innes Centre, United Kingdom)

The meristematic regulatory network controlling the floral transition (BLOOM-NET)

Project leader: Gerco Angenent (Wageningen University and Research Centre, The Netherlands).

Other project participants: Georg Coupland (MPI for Plant Breeding Research, Cologne, Germany), Markus Schmid (MPI Tuebingen, Germany), Nir Ben-Tal (University of Tel-Aviv, Israel), Brendan Davies (University of Leeds, United Kingdom)

Signaling to plant immunity responses (PathoNet)

Project leader: Irute Meskiene (University of Vienna, Austria).

Other project participants: Dierk Scheel (Leibniz Institute of Plant Biochemistry, Halle, Germany), Wolfram Weckwerth (MPI Molecular Plant Physiology, Potsdam-Golm, Germany), Cyril Zipfel (Sainsbury Laboratory, United Kingdom)

Associative expression and systems analysis of complex traits in oilseed rape / canola (ASSYST)

Project leader: Rod Snowdon (University of Giessen, Germany).

Other project participants: Pierre Fobert (National Research Council, Saskatoon, CA), Andy Sharpe (National Research Council, Saskatoon, Canada), Sue Abrams (National Research Council, Saskatoon, Canada), Isobel Parkin (Agriculture and Agri-Food Canada, Saskatoon, Canada), Benjamin Stich (University of Hohenheim, Germany), Ian Bancroft (John Innes Centre, Norwich, United Kingdom)

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Investigating the role of short RNAs on wood formation, cambium development and adaptation of poplar tree (POPsRNA)

Project leader: Tamas Dalmay (University of East Anglia, United Kingdom).

Other project participants: Ykä (Yrjö) Helariutta (University of Helsinki, Finland), Eugene Berezikov (Hubrechts Institute, The Netherlands)

Integrating genetics and high throughput genomics to identify genes underlying tomato quantitative trait loci (QTL) for metabolites that influence fruit quality (TOMQML)

Project leader: Graham Seymour (University of Nottingham, United Kingdom).

Other project participants: Christophe Rothan (INRA Bordeaux (subcontractor), France), Alisdair Fernie (MPI Golm, Germany), Ari Schaffer (Volcani Centre, Israel), Gerco Angenent (Wageningen University and Research Centre, The Netherlands), Paul Fraser (University of London, United Kingdom), Ian Puddephat (Syngenta, United Kingdom)\*, James Giovannoni (Cornell University, United Kingdom)

Plant Alternative Splicing and Abiotic Stress (PASAS)

Project leader: John Brown (University of Dundee, United Kingdom).

Other project participants: Andrea Barta (Medical University of Vienna, AT), Arthur Jarmolowski (Adam Mickiewicz University, Poznan, Poland)\*, Robert Fluhr (The Weizman Institute of Science, Rehovot, Israel)

Calcium Regulation of Plants Productivity (CROPP)

Project leader: Ute Vothknecht (LMU Munich, Germany).

Other project participants: Markus Teige (University of Vienna, Austria), Hillel Fromm (University of Tel-Aviv, Israel), Tina Romeis (Technical University Berlin, Germany), Marc Knight (University of Durham, United Kingdom)

Plant Receptor-like Kinases in ROS Signaling (PROSIG)

Project leader: Jaakko Kangasjärvi (University of Helsinki, Finland).

Other project participants: David Collinge (Copenhagen University, Denmark), Silke Robatzek (MPI for Plant Breeding Research, Cologne, Germany), Jan Willem Borst (Wageningen University and Research Centre, The Netherlands)

Application of genomics to dissect Polycomb-group protein mediated control of plant development (PcG-code)

Project leader: Franziska Turck (MPI for Plant Breeding Research, Cologne, Germany).

Other project participants: Heiko Schoof (MPI for Plant Breeding Research, Cologne, Germany), Daniel Schubert (Heinrich Heine University of Düsseldorf, Germany), Ben Scheres (University of Utrecht, The Netherlands), Justin Goodrich (University of Edinburgh, United Kingdom)

\*participant with own funding