



13th Young Scientists Meeting 2021 -Conference-

11th - 13th October
online



Programme



Organising Team

Lars Böge	JKI, Institute for Resistance Research and Stress Tolerance, Quedlinburg
Laura Draack	JKI, Institute for Resistance Research and Stress Tolerance, Quedlinburg
Veronic Grätz	JKI, Institute for Resistance Research and Stress Tolerance, Quedlinburg
Anja Hühnlein	JKI, Information Centre and Library, Quedlinburg
Maria Kern	JKI, Institute for Resistance Research and Stress Tolerance, Quedlinburg
Anna Marthe	JKI, Institute for Resistance Research and Stress Tolerance, Quedlinburg
Anne-Kathrin Pfrieme	JKI, Institute for Resistance Research and Stress Tolerance, Quedlinburg

Contact them via ysm@julius-kuehn.de

Jury

We would like to kindly thank the jury for taking over the task of evaluating the talks.

Janine König	JKI, Institute for Breeding Research on Horticultural Crops, Quedlinburg
Sylvia Plaschil	JKI, Institute for Breeding Research on Horticultural Crops, Quedlinburg
Anna Schwandner	JKI, Institute for Grapevine Breeding Geilweilerhof, Siebeldingen
Stephanie Werner	JKI, Institute for Safety in Plant Biotechnology, Quedlinburg

Awards

Since the YSM will be held online this year, we will exceptionally refrain from awarding prizes for the best posters and talks. Especially the choice of the best posters via an online vote of the participants is not free of possible manipulations. Therefore, although there will be no prize money this year, the jury will evaluate all presentations and, if requested by the presenters, provide appropriate feedback after the YSM. For the posters, there will nevertheless be an online survey among the participants, so that at least in this way a feedback is guaranteed, even if it is not financially awarded.

Webex

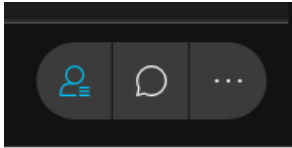
The YSM will be conducted using the Webex video conferencing system. You can find the link to Webex within the intranet "Veranstaltungen".

During the meeting: If you would like to present a talk or poster, you can do so by clicking on "Share"/"Freigeben" and share your screen.

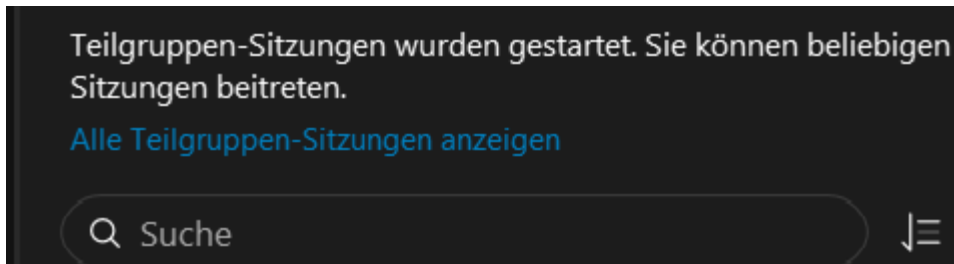
During breaks (except noon and the last break) we offer you two breakout rooms. You can use them to either talk in more detail with the speakers of the previous sessions or keynotes or to exchange ideas with other participants about a specific topic and thus network a bit.

If you want to present a poster, you can do it twice: During the poster pitches, where the posters are announced in 2-minute short presentations, and then again during the poster session. During the poster session, the posters and their presenters will be located in different breakout rooms, which can be freely visited and left by all participants.

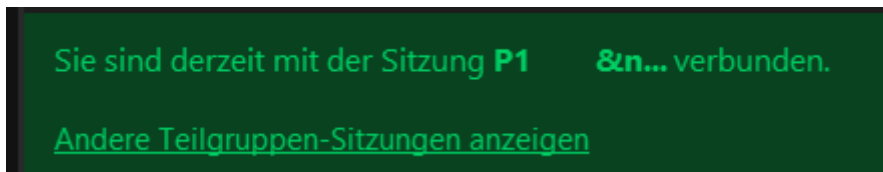
To visit a breakout room, whether during breaks or during the poster session, click at the “Participants”/“Teilnehmer” icon at the bottom of the screen:



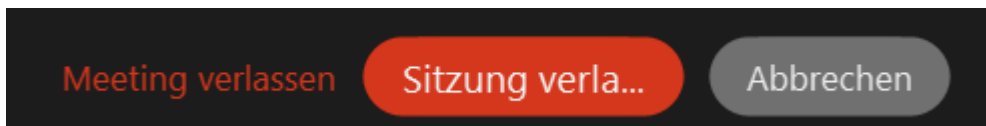
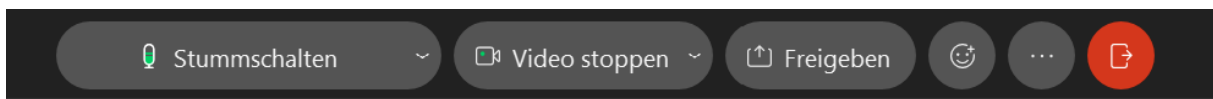
After that you will find the command “Show all subgroup sessions”/“Alle Teilgruppen-Sitzungen anzeigen” on the screen:



When you click on the command, you will get a list of breakout rooms and you can choose your desired room. If you want to change the room, click on “Show other subgroup sessions”/“Andere Teilgruppen-Sitzungen anzeigen”:



If you want to switch back to the main room, click “Leave session”/“Sitzung verlassen”:



Monday, 11th October	
12.30 am – 12.45 pm	Come together
12.45 am – 1.00 pm	Welcome by the organizing team
1.00 – 1.30 pm	Opening by the President of JKI, Prof. Dr. Frank Ordon
1.30 – 2.45 pm	Session 1
	T1 Using artificial intelligence for grapevine yield forecasts Engler, Hannes (ZR)
	T2 White, black, or rather grey? Choosing color for the predictive model for human Puumala ortho-hantavirus infections driven by a common forest rodent Kzasidis, Orestis (GF)
	T3 Investigations of fungi as potential cause of sea buckthorn dieback in Northern Germany Popp, Carolin (OW)
	T4 Using infection studies and molecular techniques to investigate differences in virulence of the agent causing dieback on ash trees (<i>Hymenoscyphus fraxineus</i>) Ridley, Maia (GF)
	T5 What is the impact of different landscape factors on urban wild bee communities? Weber, Monika (BS)
2.45 – 3.15 pm	<i>Break Follow-up and feedback What was your motive to work at JKI?</i>
3.15 – 4.00 pm	Keynote Future challenges in fruit breeding Prof. Dr. Henryk Flachowsky (ZO)
4.00 – 4.30 pm	<i>Follow-up and Feedback and END for today</i>



Tuesday, 12th October	
9.15 – 10.00 am	<p>Keynote Plant Genetic Resources for Future Breeding and Research</p> <p>Prof. Dr. Andreas Börner (IPK Gatersleben)</p>
10.00 – 11.00 am	<p>Session 2</p> <p>T6 Ripening detection in grapevine: development of a handheld NIR sensor</p> <p>Gebauer, Lucie (ZR)</p> <p>T7 Marker-assisted selection for <i>Wheat dwarf virus</i> (WDV) tolerance in wheat (<i>Triticum aestivum</i>)</p> <p>Pfrieme, Anne-Kathrin (RS)</p> <p>T8 Mapping of the waxy bloom gene in 'Black Jewel' in a parental linkage map of 'Black Jewel' × 'Glen Ample' (Rubus) interspecific population</p> <p>Pinczinger, Dora (ZO)</p> <p>T9 Illuminating SBWMV-host interaction – Subcellular localization and function of CP-RT during virus infection</p> <p>Sprotte, Nico (EP)</p>
11.00 – 11.30 am	<p><i>Break Follow-up and feedback What was the funniest/best thing you've experienced at JKI so far?</i></p>
11.30 – 12.30 am	<p>Poster Pitches I</p> <p>P1 Characterization of entomopathogenic fungi as biocontrol agent for codling moth: insights into their variation in growing parameters</p> <p>Antara, Nushrat Harun (BI)</p> <p>P2 Virus monitoring in grapevine genetic resources</p> <p>Bartsch, Felicitas (ZR)</p> <p>P3 Genome-wide association study of resistance to late blight based on JKI pre-breeding potato clones (<i>Solanum tuberosum</i>)</p> <p>Blossei, Johanna (ZL)</p> <p>P4 Priming for enhanced defense as strategy to optimize crop resistance</p> <p>Cambeis, Matthias (EP)</p>



	<p>P5 Reduced tillage, cover crops and organic amendments affect soil microbiota and improve soil health in Uruguayan vegetable farming systems</p> <p>Cerecetto, Victoria (EP)</p>
	<p>P6 Aphid and virus resistance in potato</p> <p>Draack, Laura (RS)</p>
	<p>P7 Prax-REDUCE - Implementation of urease inhibitor formulation for ammonia mitigation in the cattle farming</p> <p>Ehmke, Annika (AT)</p>
	<p>P8 Efficiency of <i>Sbm1</i> and <i>Sbm2</i> resistance against soil-borne furoviruses in wheat under specific climatic conditions</p> <p>Gauthier, Kevin (EP)</p>
	<p>P9 Variability of drought stress responses among barley genotypes</p> <p>Grätz, Veronic (RS)</p>
	<p>P10 Assessment of climate change impact on wheat production in Germany using a multi-model-ensemble</p> <p>Jorzig, Christian (SF)</p>
12.30 am – 1.30 pm	<i>Lunch break</i>
1.30 – 2.30 pm	<p>Poster Pitches II</p> <p>P11 Undersowing and intercropping for regulation of pest insects in white cabbage</p> <p>Köneke, Anna (GF)</p>
	<p>P12 Optimization of a protocol to embed <i>Hypericum perforatum</i> L. seeds</p> <p>Kreth, Lana-Sophie (GF)</p>
	<p>P13 Methodology and indices for the spatial evaluation of different planting patterns</p> <p>Lieb, Robin (SF)</p>
	<p>P14 Precise Nitrogen – Increase nitrogen efficiency in crop production</p> <p>Löwe, Dennis (PB)</p>



	<p>P15 A review on model-based development of drought-tolerant cereal ideotypes</p> <p>Meziane, Asmae (SF)</p>
	<p>P16 New approaches to the identification and selection for <i>Wheat dwarf virus</i> (WDV) tolerance in wheat (<i>Triticum aestivum</i>)</p> <p>Pfrieme, Anne-Kathrin (RS)</p>
	<p>P17 Effect of timing and duration of combined heat and drought stress on oilseed rape (<i>Brassica napus</i> L.)</p> <p>Sabboura, Dima (SF)</p>
	<p>P18 Anise – a new crop for Germany?!</p> <p>Stache, Anne-Marie (ZG)</p>
	<p>P19 A new non-destructive process for the <i>Brachycera</i> identification via DNA Barcoding</p> <p>Stein, Frederik (GF)</p>
	<p>P20 Characterization of genetic loci conferring grapevine black rot (<i>Guignardia bidwellii</i>) resistance</p> <p>Weber, Patricia (ZR)</p>
2.30 – 3.00 pm	<i>Break Follow-up and feedback How do you envision the future of agriculture?</i>
3.00 – 4.00 pm	<p>Session 3</p> <p>T10 Epidemiology and pathogenicity of <i>Sclerotinia sclerotiorum</i> in oilseed rape: Overview of SkleroPro project</p> <p>Brand, Sinja (A)</p> <p>T11 Influence of temperature on the sensitivity of rapeseed varieties and genotypes to turnip yellows virus (TuYV) and animal pests (aphids)</p> <p>Kern, Maria (RS)</p> <p>T12 Analysis of an East Asian <i>Vitis</i> species to identify a new resistance to downy mildew</p> <p>Malagol, Nagarjun (ZR)</p> <p>T13 Vector monitoring on Flavescence dorée, <i>Xylella fastidiosa</i> and regulated non-quarantine pests in fruit crops and viticulture</p> <p>Trippel, Christine (OW)</p>
4.00 – 4.30 pm	<i>Follow-up and Feedback and END for today</i>



Wednesday, 13th October	
9.15 – 10.15 am	<p>Session 4</p> <p>T14 Acoustic insect detection for horticulture</p> <p>Branding, Jelto (AT)</p> <p>T15 Phenology of core collection of apples in Dresden-Pillnitz</p> <p>Das, Anwasha (ZO)</p> <p>T16 The reasons for aggregated nesting and the nesting requirements of the ground-nesting bee <i>Andrena vaga</i> Panzer, 1799 (Hymenoptera: Andrenidae)</p> <p>Gardein, Hanna (BS)</p> <p>T17 Identification of interacting plant host factors from the Soil-borne wheat mosaic virus movement protein</p> <p>Strauch, Claudia J. (EP)</p>
10:15 – 10:45 am	<i>Break Follow-up and feedback After the project is before the project: What does your future look like?</i>
10.45 – 12.00 am	Poster session (each poster has its own breakout room)
12.00 am – 1.00 pm	<i>Lunch break</i>
1.00 – 2.00 pm	<p>Session 5</p> <p>T18 MAGIC-RESIST: Identification and mapping of effective resistance genes to rust diseases and Fusarium head blight in the MAGIC WHEAT population WM-800</p> <p>Böge, Lars (RS)</p> <p>T19 Treating apple replant disease with beneficial microbes: Effects of <i>Bacillus velezensis</i> FB01 and <i>Pseudomonas sp.</i> RU47 on the microbial community</p> <p>Hauschild, Kristin (EP)</p>



	<p>T20 Spot Farming – a new approach for a small-scale and sustainable plant production</p> <p>Schröder, Johanna (AT)</p> <p>T21 Comparing different calibration strategies for the DSSAT-Nwheat model building on an extensive experimental data set for Germany</p> <p>Shawon, Ashifur R. (SF)</p>
2.00 – 2.45 pm	<p>Keynote Site-directed genetic engineering in crop plants - principles and applications</p> <p>Dr. Jochen Kumlehn (IPK Gatersleben)</p>
2.45 – 3.15 pm	<i>Break / Follow-up and feedback</i>
3.15 – 3.30 pm	<p>Supporters and Friends of JKI (GFF)</p> <p>Dr. Thomas Kühne (chairman of GFF)</p>
3.30 – 4.00 pm	Revealing the secret of next year's location Good Bye



Participants

Last name	First name	Institute
Antara	Nushrat Harun	JKI, Institute for Biological Control
Bartsch	Felicitas	JKI, Institute for Grapevine breeding
Bendel	Nele	JKI, Institute for Grapevine breeding
Bliedung	Sophie	JKI, Institute for Ecological Chemistry, Plant Analysis and Stored Product Protection
Blossei	Johanna	JKI, Institute for Breeding Research on Agricultural Crops
Böge	Lars	JKI, Institute for Resistance Research and Stress Tolerance
Borrmann	Peter	JKI, Institute for Crop and Soil Science
Brand	Sinja	JKI, Institute for Plant Protection in Field Crops and Grassland
Branding	Jelto	JKI, Institute for Application Techniques in Plant Protection
Cambeis	Matthias	JKI Institute for Epidemiology and Pathogen Diagnostics
Cerchetto González	Victoria	JKI, Institute for Epidemiology and Pathogen Diagnostics
Chofong	Gilbert Nchongboh	JKI, Institute for Epidemiology and Pathogen Diagnostics
Das	Anwasha	JKI, Institute for Breeding Research in Fruit Crops
Draack	Laura	JKI, Institute for Resistance Research and Stress Tolerance
Ehmke	Annika	JKI, Institute for Application Techniques in Plant Protection
Engler	Hannes	JKI, Institute for Grapevine Breeding
Fernandez Gnecco	Gabriela	JKI, Institute for Plant Protection in Horticulture and Forests
Gardein	Hanna	JKI, Institute for Bee Protection
Gauthier	Kevin	JKI, Institute for Epidemiology and Pathogen Diagnostics
Gebauer	Lucie	JKI, Institute for Grapevine Breeding
Goodarzi	Maryam	JKI, Institute for Plant Protection in Fruit Crops and Viticulture
Grätz	Veronic	JKI, Institute for Resistance Research and Stress Tolerance
Hauschild	Kristin	JKI, Institute for Epidemiology and Pathogen Diagnostics
He-Bleinagel	Xia	JKI, Institute for Strategies and Technology Assessment
Ilyas	Rabia	JKI, Institute for Epidemiology and Pathogen Diagnostics
Jorzig	Christian	JKI, Institute for Strategies and Technology Assessment
Kazasidis	Orestis	JKI, Institute for Plant Protection in Horticulture and Forests
Kern	Maria	JKI, Institute for Resistance Research and Stress Tolerance
Keßeler	Paul	JKI, Institute for Crop and Soil Science
Köneke	Anna	JKI, Institute for Plant Protection in Horticulture and Forests
Kreth	Lana-Sophie	JKI, Institute for Plant Protection in Horticulture and Forests
Lieb	Robin	JKI, Institute for Strategies and Technology Assessment
Lodenkemper	Ricarda	JKI, Institute for Strategies and Technology Assessment
Löwe	Dennis	JKI, Institute for Crop and Soil Science
Malagol	Nagarjun	JKI, Institute for Grapevine Breeding
Meziane	Asmae	JKI, Institute for Strategies and Technology Assessment
Pasha	Ali	JKI, Institute for Epidemiology and Pathogen Diagnostics
Pfrieme	Anne-Kathrin	JKI, Institute for Resistance Research and Stress Tolerance
Pinczinger	Dora	JKI, Institute for Breeding Research on Fruit Crops
Popp	Carolin	JKI, Institute for Plant Protection in Fruit Crops and Viticulture
Ridley	Maia	JKI, Institute for Plant Protection in Horticulture and Forests
Rohde	Mareike	JKI, Institute for Epidemiology and Pathogen Diagnostics



Sabboura	Dima	JKI, Institute for Strategies and Technology Assessment
Sauer	Jasmin	JKI, Institute for Plant Protection in Horticulture and Forests
Schäfer	Lea	JKI, Institute for Biological Control
Schröder	Johanna	JKI, Institute for Application Techniques in Plant Protection
Schwandner	Anna	JKI, Institute for Grapevine Breeding
Shawon	Ashifur Rahman	JKI, Institute for Strategies and Technology Assessment
Shi	Yuhong	JKI, Institute for Crop and Soil Science
Sprotte	Nico	JKI, Institute for Epidemiology and Pathogen Diagnostics
Stache	Anne-Marie	JKI, Institute for Breeding Research on Horticultural Crops
Stein	Frederik	JKI, Institute for Plant Protection in Horticulture and Forests
Strauch	Claudia	JKI, Institute for Epidemiology and Pathogen Diagnostics
Tomforde	Magnus	JKI, Institute for Application Techniques in Plant Protection
Trippel	Christine	JKI, Institute for Plant Protection in Fruit Crops and Viticulture
Weber	Monika	JKI, Institute for Bee Protection
Weber	Patricia	JKI, Institute for Grapevine Breeding
Wüppenhorst	Karoline	JKI, Institute for Bee Protection
Yang	Shili	JKI, Institute for Biological Control