***Workshop on***

***Biotrophy and Plant Immunity 7th & 8th of April 2022***

**Organizational notes**

**When:** 7th & 8th of April 2022

**Where:** Universitätsclub Bonn e.V.

 Konviktstr. 9

 53113 Bonn

 (Bus station: **Brüdergasse/Bertha-Von-Suttner-Platz**)

**Covid19 regulation:** **Currently 3G:** (vaccinated, recovered or daily negative test.

(Antigen, not older than 24h; PCR, not older than 48h)

**Please wear masks indoor!**

**Covid19 Test Center:** Medicare Bertha-Von Suttner-Platz (beside of Trinitae)

 <https://covid-testzentrum.de/bonn-belderberg>.

Medicare Remigiusplatz - <https://covid-testzentrum.de/bonn>.

(Please choose Remigiusplatz).

 **To avoid waiting time you should fix an appointment before.**

**Travelling:** Due to the difficult parking situation in Bonn, we recommend to travel by public transport, where possible.

**Link for finding**

**bus connections:** <https://www.swb-busundbahn.de/fahrplaene/fahrplanauskunft>

**Parking information for**

**attendees arriving by car:** If you don´t find a free parking area at the Universitätsclub you can use following:

**Parking garage Operparkgarage: Brassertufer, 53111 Bonn**.

<http://bcp-bonn.de/operngarage>.



**WLAN access:**Free WLAN access is possible at the reception counter (please ask Tanja)

**Dinner on the 7th:**Wirtshaus Salvator (within walking distance round about 10 minutes from the University Club)

[Wirtshaus Salvator - Bonn | German cuisine near me | Book now (eatbu.com)](https://wirtshaus-salvator.eatbu.com/?lang=en)

**Tour Botanic Gardens 8th:**  Botanic Gardens (within walking distance round about 20 minutes from the University Club)

 <https://www.botgart.uni-bonn.de/en?set_language=en>

**General:** We would recommend to have comfortable shoes with you and depending on the weather also an umbrella.

**We are very pleased to welcome you in Bonn!**

**7th of April II Agenda**

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| Day 1 | Name | Title of presentation |  |
| 09:00-09:10 | *Prof. Dr. Djamei & Dr. C. Veneault-Fourrey* |  Opening |  |
| 09:10-09:30 | *Prof. Dr. Kahmann* | The Stp complex as new fungicide target. |  |
| 9:30-09:50 | *Prof. Dr. Alga Zuccaro*  | Immunity signaling and cell death in plant microbe interactions. |  |
| 10:00-10:10 | *Dr. Mathias Brands*  | Potential roles for lipids and lipases in nutrition and immunity during symbiotic plant-microbe interactions. |  |
| 10:10-10:25 | *Nick Dunken*  | A fungal endophyte-generated nucleotide signal regulates cell death and promotes root colonization. |  |
| 10:25-10:40 | *Lisa Mahdi*  | Fungal root endophytes display trans-kingdom synergistic beneficial effects with microbiota in Arabidopsis and barley. |  |
| 10:40-10:50 | *Patricia Zecua*  | Dissecting cell death pathways in beneficial plant-fungal interactions. |  |
| 10:50-11:00 | *Marvin Christ (Prof. Gert Bange Lab)* | Structural characterization of Umag\_00027 |  |
| 11:00-11:30 | ***Coffee break*** |   |  |
| 11:30 - 11:50 | *Dr. Sébastien Duplessis* | Overview of the IAM transversal project on Rust genomics and the Poplar-Melampsora interaction: progress in covid mode. |  |
| 12:00-12:10 | *Julie Lintz* | Are RISPs (Rust Induced Secreted Proteins) novel plant defense peptides with both antifungal and elicitor activities? |  |
| 12:10-12:30 | *Dr. Claire Veneault-Fourrey* | The study of symbiotic effectors: what's next?  |  |
| 12:30-12:40 | *Dr. José-Eduardo Marques-Galvez* | The role of Poplar MYC2 in ectomycorrhizal symbiosis: from effectors to terpene synthases. |  |
| 12:40-12:50 | *Dr. Aurélie Deveau* | Endophytic colonisation of poplar tissues: easy to enter but hard to stay? |  |
| 12:50-13:00 | *Félix Fracchia* | Is ethylene altering above and belowground poplar fungal communities? |  |
| 13:00-14:30 | ***LUNCH*** |   |  |
| 14:30-14:50 | *Prof. Dr. Armin Djamei* | Nine Years of effectomics in Ustilago maydis. |  |
| 14:50-15:00 | *Dr. Maxim Prokchorchik* | A ROS-suppressing secreted protein from *U.maydis* with structural similarity to a conserved bacterial effector. |  |
| 15:00-15:10 | *Dr. Kishor Ingole* | Tetracycline-controlled (TetON) system to functionally study toxic proteins in Ustilago maydis. |  |
| 15:10-15:20 | *Dr. Mamoona Khan-Djamei* | Manipulation of maize auxin signaling by a cluster of Ustilago maydis effectors. |  |
| 15:20-15:30 | *Dr. Natália S. Teixeira-Silva* | Killer-like effectors: Ustilago maydis virus-derived antimicrobial proteins? |  |
| 15:30-15:45 | ***Coffee Break*** |   |  |
| 15:45-16:05 | *Prof. Dr. Caroline Gutjahr* | Arbusuclar mycorrhiza development and function. |  |
| 16:05-16:15 | *Karishma Kumari* | Functional characterization of lipid transfer proteins in AM symbiosis. |  |
| 16:15-16:25 | *Dr. Karen Hobeker* | Establishment of cell-specific TRAP-seq from arbuscular mycorrhizal roots. |  |
| 16:25-16:35 | *Annika Lübbe* | Transcriptional regulation of arbuscular mycorrhiza development. |  |
| 16:35-18:00 | *Postersession* |   |  |
| 18:30 Uhr  | ***Dinner*** | **Wirtshaus Salvator****8th of April II Agenda** |  |

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|  Day 2 | Name | Title of presentation |
| 09:00 -09:05 | *Prof. Dr. Djamei &* *Dr. C. Veneault-Fourrey* |  Opening |
| 09:05-09:25 | *Dr. Francis Martin* | Gene-trait approaches shed light on evolutionary trajectories of life historytraits in plant-associated fungi. |
| 09:25-09:35 | *Dr. Jasper Depotter* | High nucleotide substitution rates associated with retrotransposon proliferation drive dynamic secretome evolution in smut pathogens. |
| 09:35-09:55 | *Dr. Bilal Ökmen* | A conserved enzyme from smut fungi is involved in cell-to-cell movement in cell-type specific manner. |
| 09:55-10:05 | *Dr. Sina Barghahn* | Insights into cell death: marker genes and proteases. |
| 10:05-10:15 | *Priyamedha Sengupta* | Elucidating the role of Glycoside Hydrolase family 25 in microbial antagonism. |
| 10:15-10:25 | *Maurice König* | From PROZIP1 to Zip1: regulation of maize immunity by the release of the endogenous signalling peptide Zip1. |
| 10:25-10:35 | *Dr. Wei Shi* | Manipulation of plant cell-cycle control by a fungal effector protein. |
| 10:35-10:45 | *Dr. Isabel Saur* | Barley powdery mildew AVRa functions. |
| 10:45-11:15 | ***Coffee break*** |   |
| 11:15-11:35 | *Dr. Stella Cesari* | Insight into the structure, virulence function and recognition of Magnaporthe oryzae MAX effectors. |
| 11:35-11:45 | *Nutthalak Laksanavilat*  | Allele specific recognition of the Magnaporthe oryzae effector AVR-Pita by the rice protein Ptr.  |
| 11:45-11:55 | *Marie Le Naour-Vernet* | Investigation of the role of MAX effectors of the blast fungus Magnaporthe oryzae. |
| 11:55-12:05 | *Dr. Mael Baudin* | Investigation of the virulence functions of the Magnaporthe oryzae effector AVR-Pita. |
| 12:05-12:15 | *Dr. Weiliang Zuo* | Sts2, a transcriptional activator secreted from Ustilago maydis promotes the tumor formation on maize leaves. |
| 12:15:12:25 | *Dr. Karine Lambou* | A LAM-RNAseq strategy to study the Magnaporthe oryzae transcriptome associated with early stages of infection.  |
| 12:25-12:45 | *Dr. Stéphane Hacquard*  | Tryptophan metabolism and bacterial commensals prevent fungal dysbiosis in Arabidopsis roots. |
| 12:45-12:55 | *Fantin Mesny*  | Genetic determinants of endophytism in the Arabidopsis root mycobiome. |
| 12:55-13:05 | *Felix Getzke*  | Bacterial-fungal interactions within the Arabidopsis thaliana root microbiome. |
| 13:05-14:00 | ***LUNCH*** |   |
| 14:00-15:00 | *POSTERSESSION* |   |
| 15:00-15:10 | *Dr. Benjamin Pêtre* | Synthetic biology and Golden Gate cloning system. |
| 15:10-15:20 | *Anna Rybecky* | A modular toolkit for recombinant gene expression in Ustilago maydis. |
| 15:20-15:30 | *Tomàs Alberto Cortés Roman* | Transposon mutagenesis in the plant pathogenic fungus U. maydis. |
| 15:30-15:40 | *Erika Yashiro*  | Current trends in amplicon-sequenced microbial ecology. |
| 15:40-15:50 | *Nyasha Charura*  | Detecting protein aggregation during plant-microbe interaction. |
| 15:50-16:00 | *Félix Fracchia* | Assay to map root colonisation by combining SIG and R. |
| 16:00-16:15 | *Task* | Finding a new person/ group to organize the next meeting |
| 16:30/17:00 | *Evening event* | Tour through Botanic Garden Bonn |
|  18:00 | *End of Workshop* |   |