

Sunday, April 23, 2023

Number in
Session

17:00-19:00
19:30-22:00

Arrival, Registration
Welcome Reception with Evening Buffet

Monday, April 24, 2023, Morning

08:00

Opening
Prof. Dr. Holger B. Deising

Abstract ID

08:30 8 v. Tiedemann, A.
09:00 9 Thines, E.
09:30 22 Hufnagl, A.
09:50 5 Olaya, G.
10:10 80 Steinberg G.

Session 1a: New Fungicides
Chair: Dr. Gerd Stammler

Keynote 1: Will we still need, have and use fungicides in twenty years? 1
Keynote 2: Natural products as lead structures for agrochemicals: is there anything to be discovered? 2
Adavelt™ active (florylpicoxamid), a new broad spectrum picolinamide fungicide 3
Sensitivity of more than 35 Pythium species to the new fungicide Picarbutrazox 4
Azoles mode of action- it is different from what we thought 5

10:30

Coffee

Abstract ID

10:50 **Keynote** Talbot, N.
11:20 84 Boutton, C.
11:40 24 Conrath, U.
12:00 48 Beckers, G.
12:20 21 López Laguna, A.

Session 1b: New Fungicides - New Tools for Disease Control
Chair: Dr. Helge Sierotzki

Keynote 3: Can a knowledge of septin-dependent plant infection by the blast fungus Magnaporthe oryzae be used for disease control? 1
EVOCA, the first biofungicide developed by Biotalys' AGROBODY Foundry™ platform. 2
Priming plants for enhanced defense 3
Novel priming-inducing near-natural compounds: from the lab to the field 4
The potential of the RNAi strategy in the control of Botrytis cinerea in horticultural crops 5

12:45

Lunch

Monday, April 24, 2023, Afternoon

Abstract ID

Session 2a: Molecular mechanisms of fungicide resistance
Chair: Prof. Dr. Holger B. Deising

13:45	Keynote	Liu, X.	Keynote 4: Activity and Resistance-Related Point Mutation in Target Protein ORP1 of the OSBPI fungicides in Phytophthora spp.	1
14:15	17a	Matsuzaki, Y.	DETECTION OF SDHC –I87F IN CEREAL LEAF RUSTS	2
14:35	19	Hoffmeister, M.	A rare event of QoI resistance in Pyrenophora teres could be caused by an interspecific partial cytochrome b gene transfer by Pyrenophora tritici-repentis	3
14:55	63	Turo, C.	Fungicide resistance evolution driven by transposable elements in Pyrenophora teres f. teres	4
15:15	Coffee			
Session 2b: Molecular mechanisms of fungicide resistance				
Chair: PD Dr. Erich-Christian Oerke				
15:35	59	Lopez-Ruiz, F.	Interspecific hybridisation, intragenic recombination and clonal expansion as a new fungicide resistance evolutionary mechanism in plant pathogenic fungi	1
15:55	52	Bolton, M.	CbCyp51 mediated DMI resistance is modulated by codon bias	2
16:15	65a	Sofianos, G.	Unravelling the frequencies and molecular mechanisms of Multiple and Multidrug Resistance in Botrytis cinerea	3
16:35	116	Barber, A.	Antifungal Resistance in the One Health Context: Lessons from Aspergillus fumigatus	4
17:00-18:30	Poster Demonstration for details see below			

Tuesday, April 25, 2023, Morning

Abstract ID

		Session 3: Fungicide resistance: Mechanisms and diagnosis			
		Chair: Dr. Bart Fraaije			
08:00	37	Kleemann, J.	Portable Genotyping Analysis Platform (PGAP) – a novel approach to monitor fungicide resistance mutations from anywhere using Oxford Nanopore Sequencing	1	
08:20	25a	Cherrad, S.	New insights from long read sequencing to explore variants of <i>Plasmopara viticola</i> involved in resistance to complex III inhibitors, zoxamide and oxathiapiprolin in field populations.	2	
08:40	27	Hilz, E.	Fluopicolide Mode of Action Elucidation	3	
09:00	31	Huf, A.	Occurrence and distribution of CYP51 haplotypes of <i>Zymoseptoria tritici</i> in recent years in Europe	4	
09:20	38	Stilgenbauer, S.	New insights into the evolution of DMI sensitivity of <i>Phakopsora pachyrhizi</i>	5	
09:40	Coffee				

Abstract ID

		Session 4: Fungicide resistance: Mechanisms, diagnosis, predictions			
		Chair: Dr. Gerd Stammler			
10:00	10	Scalliet, G.	Keynote 5: Predicting resistance	1	
10:30	44	Patry-Leclaire, S.	Large scale screen of potential MDR isolates in contemporary Z.t. populations reveals genotypic and phenotypic diversity suggesting multiple molecular mechanisms involved in MDR field strains	2	
10:50	45	Zulak, K.	Exploiting long read sequencing to detect fungicide resistance mutations in <i>Pyrenophora teres</i> species	3	
11:10	47	Puccetti, G.	The complex genetic landscape of fungicide resistance evolution in <i>Zymoseptoria tritici</i>	4	
11:30	54	Derpmann, J.	SDHI cross-resistance pattern of <i>Erysiphe necator</i> field genotypes and consequences for Grape Powdery Mildew control	5	
11:50	88	Hsiang, T.	Naturally occurring propiconazole-tolerant fungal isolates in the phyllosphere of <i>Agrostis stolonifera</i>	6	
12:10	50	Wyatt, N.	Temporal Population Dynamics of <i>Cercospora beticola</i> Fungicide Resistance	7	
12:30	101	Adaskaveg, J.	New fungicides for managing Phytophthora diseases of tree crops include foliar and soil applications	8	

12:50

14:00-22:00

Lunch

Bus leaves at hotel for **Excursion to Weimar**

Wednesday, April 26, 2023, Morning

Abstract ID

08:00	41	Borgi, L.	Fungicide sensitivity profiling of European oomycete populations	1
08:20	49	Torriani, S.	The evolutionary history of Zymoseptoria tritici sensitivity to DMI and SDHI fungicides	2
08:40	55	Nanni, I.M.	Monitoring and tracking changes in sensitivity to zoxamide fungicide in Plasmopara viticola in Italy	3
09:00	73	Hodgson, L.	Regionalized spatial distribution and spatial dependency of demethylase inhibitor fungicide resistance	4
09:20	76	Schnabel, G.	Sensitivity of Monilinia fructicola isolates from southeastern peach orchards to propiconazole and thio	5
09:40	82	Gelain, J.	Outbreak of post-harvest sour rot on peach associated with point mutation in CYP51B gene	6
10:00	7a	Stammler, G.	Current update on the fungicide sensitivity of Erysiphe necator (grape powdery mildew) in Europe	7

10:20

Coffee

Abstract ID

10:40	12	Jørgensen, L.N.	Keynote 6: Practical disease management in cereals – a historic view, including hurdles with fungicides resistance and a future with more specific IPM	1
11:10	43	Toffolatti, S.	The management of grapevine downy mildew from antiresistance strategies to innovative approaches for fungicide resistance monitoring	2
11:30	39	Khan, M.	Doing what is right is more economical than doing what is easy for managing C. beticola in sugar beet	3
11:50	53	Miles, T.	A FRAMEwork for managing fungicide resistance in grapes	4
12:20	62	Paveley, N.	Choice of resistance management tactics: how flexible should we be?	5
12:40	42c	Walker, A.S.	Assessment of Resistance Risk to the QoI fungicide Metyltetraprole	6

13:00

Lunch

Wednesday, April 26, 2023, Afternoon

Abstract ID

			Session 6b: Fungicide resistance risk assessment and management		
			Chair: Dr. Helge Sierotzki		
14:00	14	Burnett, F.	Keynote 7: Achieving more with less: The Challenge of getting greater impact from our anti-resistance strategies		1
14:30	81	Kildea	Managing ramularia leaf spot of barley in Ireland post chlorothalonil		2
14:50	42a	Walker, A.S.	Limiting Resistance by Alternating or Mixing Fungicides? Resistance Status Trumps both Management Strategies		3
15:10	42b	Walker, A.S.	Antagonistic Pleiotropic Effects Reduce Adaptation in a Major Wheat Pathogen		4
15:30	24	Siepe, I.	Just one at a time: Fungal population experiments with Zymoseptoria tritici and metyltetraprole demonstrate the incompatibility of different cytochrome B mutations		5
15:50	Coffee				

Abstract ID

			Session 6c: Fungicide resistance risk assessment and management		
			Chair: Dr. Andreas Mehl		
16:10	23	Ishii, H.	Sequence analysis of pathogen dihydroorotate dehydrogenase (DHODH), the target enzyme of the novel fungicides ipflufenquin and quinofumelin		1
16:30	56	Neugebauer, K.	Assessing fungicide resistance and management of late season cluster rots in Michigan wine grapes		2
16:50	58	Mair, W.	Succinate dehydrogenase inhibitor fungicide resistance emerges in Australian populations of Pyrenophora teres f. teres and P. teres f. maculata		3
17:10	74	Torriani, S.	How to manage soybean diseases and resistance evolution in Brazil		4
17:30	68	Kaur, H.	Management of botrytis blight in ornamental flowers with calcium propionate		5

Thursday, April 27, 2023, Morning

Abstract ID		Session 7: Fungicide resistance modelling		
		Chair: Dr. Bart Fraaije		
08:00	64	Cosseboom, S.	CRISPR-enabled investigation of fitness costs associated with β -tubulin E198A in <i>Colletotrichum siamense</i>	1
08:20	70	Hawkins, N.	Assessing the predictability of resistance evolution through in vitro selection	2
08:40	61	Paulus, S.	FarmerSpace – a trial field for digital crop protection in sugar beet production	3
09:00	40	Laborde, M.	The potential influence of increasing air temperature and elevated CO ₂ air concentration on the efficacy level of some important fungicides	4
09:20	28	Matyjaszczyk, E.	The EPPO Database on Resistance Cases	5
09:40	36	Corkley, I.	Modelling Resistance Management Benefits of Diversity within a Fungicidal Mode of Action with Incomplete Cross-resistance: The Azoles Example	6
10:00				7
		Coffee		

Abstract ID		Session 8: Bio-rational fungicides / biocontrol		
		Chair: PD Dr. Erich-Christian Oerke		
10:20	91	Pfordt, A.	<i>Trichoderma afroharzianum</i> – A new pathogen in maize	1
10:40	2	Deising, H.B./ Devasahayam, B.R.	Are microbial biological control agents (MBCAs) consumers' friends or foes?	2
11:00	69	Schmitt, A.	Ways forward in copper reduction - strategies developed in RELACS	3
11:20	67	Beesley, A.	Tailoring coumarin biosynthesis for an improved crop protection	4
11:40	66	Weber Böhlen, J.	Engineering isoscopoletin biosynthesis for crop protection.	5
12:00			Closing	
12:15			END of SYMPOSIUM	

Posterdemonstration, Monday, April 24, 2023, 17:00-18:30, Details s. below

Poster demonstration, Monday, April 24, 2023, 17:00-18:30

Abstract ID			Poster Number
7b	Stammler, G.	Evolution of SDH and DMI adaptation in <i>Ramularia collo-cygni</i> in the last seasons in Europe	1
32	Wachowska, U.	An evaluation of the efficacy of triazole fungicides in controlling durum wheat diseases caused by <i>Fusarium</i> fungi in Poland	2
57	McDonald, M.R.	Insensitivity of <i>Stemphylium vesicarium</i> to azoxystrobin, fluopyram and fluxapyroxad fungicides in Ontario, Canada	3
60a	Karaoglanidis, G.	Resistance of <i>Aspergillus</i> section <i>Nigri</i> species originating from conventional and organic vineyards to the respiration inhibitors pyraclostrobin (QoIs) and fluxapyroxad (SDHIs)	4
60b	Karaoglanidis, G.	A novel ARMS-PCR for the detection of <i>Bcpos5</i> mutations conferring resistance to anilinopyrimidine fungicides in <i>Botrytis cinerea</i> and use of CRISPR/Cas9 editing for characterization of the resistant mutants	5
75b	De Mio, L.	Sensitivity of <i>Colletotrichum</i> Isolates from Apple Bitter Rot to Methyl-Thiophanate, Mancozeb and Trifloxystrobin	6
89	Chen, F.	Resistance of <i>Phytophthora colocasiae</i> to dimethomorph in Fujian, China	7
93	Jieru, F.	Resistance of <i>Blumeria graminis</i> f. sp. <i>tritici</i> to azole fungicides in China	8
96	Bader, O.	Phylogenetic placement and effects of <i>cyp51A</i> polymorphisms on azole susceptibility in <i>Aspergillus fumigatus</i>	9
51	ROUX, F.	Multi-year study of the impact of repeated fenpyrazamine applications on resistant populations of <i>Botrytis cinerea</i>	10
25b	CHERRAD, S.	The C239S substitution in β -tubulin of vineyard isolated <i>Plasmopara viticola</i> strains confers resistance to zoxamide.	11
29	Wong, A.	A high throughput fungicide tolerance assay for grape powdery mildew, <i>Erysiphe necator</i>	12
87	Bi, Y.	Characterization of mefentrifluconazole resistance in <i>Colletotrichum fructicola</i> from strawberry in China	13
90	Wu, L.	The plasma membrane H ⁺ -ATPase FgPMA1 regulates the development, pathogenicity, and phenamacril sensitivity of <i>Fusarium graminearum</i> by interacting with FgMyo-5 and FgBmh2.	14
94	Mu, W.	Resistance Mechanism of <i>Ralstonia solanacearum</i> to Fluazinam	15
17b	Matsuzaki, Y.	Impact of Metyltetraprole treatment on the frequency of Cytb F129L	16
75a	De Mio, L.	Selection of <i>Phakopsora pachyrhizi</i> resistant isolates by commercial fungicide applications in the field	17

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3	Fraaije, B.	The pros and cons of different diagnostic platforms for detection of single nucleotide polymorphisms associated with fungicide insensitivity	18
65b	Sofianos, G.	Use of <i>Bacillus amyloliquefaciens</i> QST713 and <i>Clonostachys rosea</i> IK726 as biocontrol agents in controlling multidrug resistant strains of <i>Botrytis cinerea</i>	19
20	Fernandez Ortuño, D.	Gene Mining for Conserved, Non-Annotated Proteins of <i>Podosphaera xanthii</i> Identifies Novel Target Candidates for Controlling Powdery Mildews by Spray-Induced Gene Silencing	20
33	Iwahashi, F.	Metabolome profiling of QoI-treated <i>Zymoseptoria tritici</i>	21
35	Oliver, R.	The 2023 update to the unified nomenclature of target site mutations associated with resistance to fungicides and a web-tool to assist label designations.	22
71	Rodemann, B.	Investigations on protective and curative control of <i>Pyrenophora teres</i> in barley with fungicidal substances	23
77	Ageeva, I./ Vlasova, T.	Changes in the composition of exometabolites of the phytopathogen <i>Verticillium dahliae</i> under the action of Benlate fungicide	24
12b	Jørgensen, L.N.	Eurobarley – control of leaf diseases in barley across Europe	25