COST FA 1208

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Pathogen-informed strategies for sustainable broad-spectrum crop resistance

Workshop on experimental approaches for the investigation of effector function

10th – 12th February 2015, Tel Aviv University, Tel Aviv, Israel









Tuesday 10 th February		
	Session 1: Protein-protein interaction analysis Chair: G. Sessa	
8:50-9:00	Opening remarks	
9:00-9:45	C. LURIN, Yeast two-hybrid interaction mapping	
9:45-10:30	S. CUNNAC , <i>Pseudomonas syringae</i> pv. <i>tomato</i> type III effector proteins binding partners identified in the defense-induced tomato proteome	
Coffee break 10:30-11:00		
11:00-11:45	S. POPESCU , An <i>in vivo</i> large-scale approach for the characterization of host-pathogen interactions	
11:45-12:00	B. SABELLECK , Investigation of physical interactions between nonhost resistance proteins of barley and candidate secreted effector proteins from <i>Blumeria graminis</i> f.sp. <i>hordei</i>	
12:00-12:15	D. ORTIZ , Functional analysis of the <i>Magnaporthe oryzae</i> effector protein AVR-Pia	
12:15-12:30	A. STIRNBERG , Characterization of a novel effector gene essential for colonization of <i>Zea mays</i> by the smut <i>Ustilago maydis</i>	
Lunch	12:30-14:00	
	Session 2: PTI/ETI suppression by pathogen effectors Chair: F. Brunner	
14:00-14:45	F. BRUNNER, PTI/MTI suppressor screens in protoplasts	
14:45-15:30	H. THORDAL-CHRISTENSEN, Searching for effector targets in cereals	
Coffee break 15:30-16:00		
16:00-16:30	G. SESSA , Screening for <i>Xanthomonas campestris</i> type III effectors that suppress cell death associated with plant immunity	
16:30-17:00	F. BORNKE , The <i>Xanthomonas campestris</i> type III effector XopI proteolytically degrades proteasome subunit RPT6 to inhibit proteasome-mediated turnover of NPR1	
17:00-17:15		
17:15-17:30	Y. PETIT, A two genes – for – one gene interaction between <i>Leptosphaeria</i> maculans and <i>Brassica napus</i>	
17:30-17:45	G. POPOV , Identification of <i>Xanthomonas campestris</i> type III effectors that suppress PTI signaling	
Dinner in Tel Aviv 18:00-21:00		

Wednesday 11 th February		
Session 3: Identification of non-immunity related virulence targets Chair: B. Szurek		
8:30-9:00	S. BURDMAN, Genetic and functional analyses of Acidovorax citrulli effectors	
9:00-9:30	B. SZUREK , TAL effectors targets: uncovering new host disease susceptibility determinants	
Coffee break 9:30-10:00		
10:00-10:15	C. LOPEZ , RNAseq analysis of cassava reveals similar plant responses upon infection with pathogenic and non-pathogenic strains of <i>Xanthomonas axonopodis</i> pv. <i>manihotis</i>	
10:15-10:30	Y. ZHAO, Identification and functional characterization of a virulence effector of Sporisorium reilianum	
10:30-10:45	S. EVES-VAN DEN AKKER, Identification and characterisation of a hypervariable apoplastic effector gene family of the potato cyst nematodes	
10:45-11:00	T. TU , Functional analysis of the TALome of an African <i>Xanthomonas oryzae</i> strain reveals a new susceptibility gene candidate for bacterial leaf blight	
Poste	er session & Lunch 11:00-12:00	
Trip to Jerusalem (departure at 12:00) / Dinner in Abu Gosh		
Thursday 12 th February		
Session 4: Innovative strategies to identify effector functions and targets Chair: M. Valls		
9:00-9:45	M. VALLS, Expression of effectors in yeast as heterologous system	
9:45-10:30	A. SAVIDOR, Global and targeted proteomics for exploration of plant pathology	
Coffee break 10:30-11:00		
11:00-11:15	M. EBERT, Characterization of a novel Cercospora beticola effector protein	
11:15-11:30	F. NAVARRETE, Functional screen of Ustilago maydis effector function	
11:30-11:45	A. SIWOSZEK, Targeting barley powdery mildew effectors by peptide aptamers	
11:45-12:00	M. QUENTIN, Characterization of <i>Meloidogyne incognita</i> nuclear effectors and identification of their plant targets	
12:00-12:15	Concluding remarks	
Lunch Departure to	12:15-14:00 the airport	