



Research Networking Programme on The Functional genomics in *Aspergillus fumigatus* and new strategies to fight against the first fungal pathogen in Europe (Fuminomics)

Third Annual Meeting
Cell Biology and Biochemistry
Institut Pasteur, Paris, France
October 7-8, 2010

BCG conference room, Bâtiment Calmette Institut Pasteur - 25, rue du Docteur Roux - 75015 Paris Contact tel. Jean-Paul Latgé +33 (0)1 4061 3518

	Thursday October 7 th , 2010			
9:00- 9:15 am	Introduction	Jean-Paul Latgé		
3.00 3.20 0	Biochemistry (chair: Javier Arroyo)	com . da. zacge		
9:15 – 9:45 am	O-Mannosyltransferases	Isabelle Mouyna		
9:45 – 10:15 am	MAP kinase signalling pathways in the human-pathogenic fungus Aspergillus fumigatus	Vito Valiante		
10:15 – 10:45 am	GliT, a component of the gliotoxin biosynthetic cluster, protects <i>Aspergillus fumigatus</i> against exogenous gliotoxin	Markus Shrettl		
10:45 – 11:00 am	Coffee break			
11:00 – 11:30 am	Recent insights into the sexual cycle of A. fumigatus	Edyta Szewczyk		
11:30 – 12:00 pm	Cell wall of Aspergillus fumigatus	Vishukumar Aimanianda		
12:00– 1:00 pm	Steering Committee meeting	Nathalie Spielewoy (ESF) and Steer. Com. members		
1:00 – 2:30 pm	Lunch break			
	Biochemistry cont'd (chair: Elaine Bignell)			
2:30 – 3:00 pm	Aspergillus fumigatus and Cystic Fibrosis: From clinical features to molecular approaches - Focus on antifungal therapies	Emilie Fréalle		
3:00 – 3:30 pm	Effects of a bacterial metabolite on function in yeast and filamentous fungi	Danielle Troppens		
3:30 – 4:00 pm	Identification of novel antifungal cell-wall disrupting compounds	Gabriel Mircus		
4:00- 4:30pm	Azole induced efflux pump expression in <i>Aspergillus fumigatus</i> biofilms	Ranjith Rajendran		
4:30 –5:00 pm	Coffee break			
	System Biology in Af (chair: Jean-Paul Latgé)			
5:00-5:15 pm	Status of the Transcriptome	Jean-Marie François		
5:15-5:30 pm	Status of the Proteome	Olaf Kniemeyer		
5:30-5:45 pm	Status of the Deletion programme	Guilhem Janbon		
08:00 pm	Dinner			





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	Friday October 8 th , 2010		
	Cell Biology and Infection (chair:Axel Brakhage)		
09:00 – 10:00 am	Cellular dynamics in the fungal cell- from measuring to modeling"	Gero Steinberg, University of Exeter, UK	
10:00 – 10:30 am	Developing atomic force microscopy for Biology	Etienne Dague	
10:30 – 11:00 am	Coffee Break		
11:00 – 11:30 am	Functional analysis of DPR proteins in Af	Joanne Wong Sak Hoi	
11:30 – 12:00	OO An update on Systematic deletion of Laura . A. fumigatus gene clusters		
12:30 – 2:00 pm	Lunch break		
	Cell Biology and Infection (chair: Hubertus Haas)		
02:00 – 02:30 pm	Response of human dendritic cells to mycelial Aspergillus fumigatus catalase	Michael Ok	
02:30 – 03:00 pm	NET	Axel Brakhage	
03:00 – 03:30 pm	Monitoring of experimental Aspergillus fumigatus infection through detection of fungal nucleic acids	Oliver Morton	
03:30 – 04:00 pm	A new experimental model designed to evaluate the antifungal effect of UVC radiation against some strains of Aspergillus fumigatus	Luminita-Iuliana Ailincai	
04:00 – 04:30 pm	Pathosystematic analysis of aspergillosis caused by genetically intact, and LaeA methylase-deficient, clinical isolates	Charlie Cairns	
04:30 – 05:00 am	Coffee Break		
05:00 – 05:30 pm	Final Discussion, next meeting, chaired by the Steering Committee	Steering committee members	

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The third ESF Fuminomics annual meeting to be held in October 2010 is organized by Partner 1 and Chairman of the programme at the Institut Pasteur, Paris, France. The meeting will gather young and senior scientists belonging to the 17 laboratories/Partners and will allow them to present their results, discuss together and exchange about their recent studies on Aspergillus fumigatus. This year, the presentations and discussions will be focused on Biochemistry and Cell Biology. Both disciplines are necessary to elucidate proteins function, understand their role during host infection and identify and characterize novel antifungal targets. The first day will be focused on the recent biochemical data about Af multi-proteic processes essential for fungal growth: O-Mannosyltransferases as new putative targets for antifungals, MAP kinase signalling pathways, gliotoxin cluster, proteins associated to the sexual cycle of Af. The Biochemistry session will be pursued by four presentations showing new approaches for antifungal therapies. During the second day, recent tools for cell biology and functional analysis will be presented. Various imaging technologies and their application to monitor cell biology during infection by the pathogenic fungus will be detailed. Development of new imaging technologies will also be discussed.

On Day 1, a one-hour discussion is scheduled with the Steering Committee members and Mrs Nathalie Spielewoy, ESF Science Officer.

Title	Surname	First name	Institution	Dpt	City	Country	Dinner 6th
Dr.	Spielewoy	Nathalie	ESF		Strasbourg	France	0
Prof.	Haas	Hubertus	Innsbruck Medical	Division of Molecular	Innsbruck	Austria	
			University	Biology/Biocenter			1
PhD student	Shrettl	Markus	Innsbruck Medical	Division of Molecular	Innsbruck	Austria	
			University	Biology/Biocenter			1
Prof.	François	Jean-Marie	INSA	Biochips Platform	Toulouse	France	1
Dr	Dague	Etienne	INSA	Biochips Platform	Toulouse	France	
							0
PhD student	Frealle	Emilie	CHRU Faculté de	Laboratoire de	Lille cedex	France	
THE Student	rreame	Littille	Médecine de Lille	Parasitologie-Mycologie	Line cedex	Trance	
			Wicaccine de Line	Tarasitologic Wycologic			0
Dr	Ruprich-	Gwenaël	Université Paris	Faculté des Sciences	PARIS Cedex	France	1
Di .	Robert	Gweriaei	Descartes	Pharmaceutiques et	06	Trance	
	Robert		Descartes	Biologiques de Paris	00		o
Prof.	Latgé	J-Paul	Institut Pasteur	Aspergillus Unit	Paris	France	1
Dr	Mouyna	Isabelle	Institut Pasteur	Aspergillus Unit	Paris France		1
Dr	Janbon	Guilhem	Institut Pasteur	Aspergillus Unit	Paris	France	1
Dr	Wong Sak Hoi	Joanne	Institut Pasteur	Aspergillus Unit	Paris	France	1
Dr	Aimanianda	Vishukumar	Institut Pasteur	Aspergillus Unit	Paris	France	1
Dr	Brakhage	Axel	Hans-Knoell-Institute	Depmt Molecular and	Jena	Germany	_
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PhD student	Kniemeyer	Olaf	Hans-Knoell-Institute	Depmt Molecular and	Jena	Germany	_
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Dr	Valiante	Vito	Hans-Knoell-Institute	Depmt Molecular and	Jena	Germany	_
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Dr	Loeffler	Juergen	University Medical	Department of Internal	Würzburg	Germany	
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PhD student	ок	Michael	University Medical	Department of Internal	Würzburg	Germany	
			Center Würzburg	Medicine II Gebäude C1		•	1
Dr	Krappmann	Sven	University of Würzburg	Research Center for	Würzburg	Germany	
			, 0	Infectious Diseases		•	1
Post-doc	Szewczyk	Edyta	University of Würzburg	Research Center for	Würzburg	Germany	
				Infectious Diseases			
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Prof.	Müller	Franck-	University of	Dept of Pediatrics III	Heidelberg	Germany	
D.,	0.0	Michael	Heidelberg	Danasta at af	Cardo	luele a d	1
Dr	Morrissey	John	University College of	Department of	Cork	Ireland	1
PhD student	Tuennene	Daniella	Cork University College of	Microbiology	Cont	luala m d	1
PhD student	Troppens	Danielle	, ,	Department of	Cork	Ireland	
Prof.	D	Tom	Cork	Microbiology	Duddin	luele a d	1
Prot.	Rogers	Iom	Trinity College Dublin	Department of Clinical	Dublin	Ireland	1
D.	Mantan	Oliver	Trinity College Dublin	Microbiology	Dublin	lundam d	1
Dr	Morton	Oliver	Trinity College Dublin	Department of Clinical	Dublin	Ireland	_
Dr	Ochore	Nie	Tol Aviv University	Microbiology	Tol Assiss	leraal	1
Dr.	Osherov	Nir	Tel Aviv University	Department of Human	Tel Aviv	Israel	1
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PhD student	Mircus	Gabriel	Tel Aviv University ,	Department of Human	Tel Aviv	Israel	
			Sackler School of	Microbiology			_
	1	l	Medicine	l			1

ESF Fuminomics Workshop October 2010 - List of Participants

TOTAL							30	
Prof.	Sanglard	Dominique	University og Lausanne and University Hospital Center		Lausanne	Switzerland		твс
Prof.	Steinberg	Gero	University of Exeter	School of Bioscience	Exeter	United-Kingdom	0	
PhD student		Ranjith	and Hospital - The University of Glasgow	Section of Infection and Immunity	Glasgow	United-Kingdom	1	
Dr	Ramage	Gordon	Glasgow Dental School and Hospital - The	Section of Infection and Immunity	Glasgow	United-Kingdom	1	
PhD student	Cairns	Charlie	Imperial College London	Department of Molecular Microbiology and Infection	London	United-Kingdom	1	
Dr	Bignell	Elaine	Imperial College London	Department of Molecular Microbiology and Infection	London	United-Kingdom	1	
Dr.	Arroyo	Javier	Complutense University	Department of Microbiology II, Faculty of Pharmacy	Madrid	Spain	1	
PhD student	Alcazar-Fuoli	Laura	Imperial College London	Department of Molecular Microbiology and Infection	London	United-Kingdom		
Dr.	Mellado	Emilia	Instituto de Salud Carlos III - Centro Nacional de	Micology Reference Laboratory	Madrid	Spain	1	
Dr	AILINCAI	Luminita- Iuliana	National Instit. of R&D Microbiology and Immunology "Cantacuzino"	Immunology Department	Bucarest	Romania	1	
Prof.	Radu	Dorel Lucian	National Instit. of R&D Microbiology and Immunology "Cantacuzino"	Immunology Department	Bucarest	Romania	1	