

Training and research in *Listeria monocytogenes* adaptation through proteomic and transcriptome deep sequencing analysis

Summer School "Quantitative Proteomics" 3-7 July 2017

INRA, Auvergne-Rhône-Alpes Centre, Site de Theix, Saint-Genès-Champanelle France



Monday, 3rd

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	9:00 11:00	Welcome to the INRA Center, site of Theix General presentation of the proteomic summer school and the national INRA and the Auvergne-Rhône-Alpes INRA Center
	12:15	Lunch
	13:30	Introduction to proteomics: Proteomics strategies and approaches, Sample preparation (protein extraction, subproteomic, depletion) T. Rabilloud
	17:00	End of the first day
Tuesday, 4 th		
	8:30	Sample separation (in-gel vs off-gel, principles, possible combinations for non-targeted approaches) T. Rabilloud
	10:15	Coffee break
	10:30	Mass spectrometry principles (MALDI and ESI sources, analyzers) T. Chaze
	12:30	Lunch
	13:30	Relative quantitative proteomic for global approaches (Profiling, label-free vs labelling methods) T. Chaze



	15:00	Coffee break		
	15:15	Absolute quantitative proteomic for targeted approaches (SRM, MRM, AQUA) T. Chaze		
	17:00	End of the day		
Wednesday, 5 th				
	8:30	Examples of proteomic approaches implementation C. O'Byrne		
	10:15	Coffee break		
	10:30	Imaging Mass Spectrometry L. Théron		
	12:30	Lunch		
	13:30-18:00	Social event: Hiking on the Auvergne's old sleeping effusive volcanoes for a panoramic view of the "Chaîne des Puys"		
	20:00	Dinner in Clermont-Ferrand ¹		
Thursday, 6 th				
	8:30	- Group 1: Metabolism exploration platform (PFEM) visit,		
		metabolomics and proteomic components PFEM Engineers		
		- Group 2: Bio-informatic and bio-statistic tools O. Langella – PFEM Engineers		
	12:15	Lunch		
	13:15	- Group 1: Bio-informatic and bio-statistic tools O. Langella – PFEM Engineers		
		 Group 2: Metabolism exploration platform (PFEM) visit, metabolomics and proteomic components PFEM Engineers 		
	17:00	End of the day		
Friday, 7 th				
	8:30	- Journal Club on proteomic approaches and applications, advantages and limits, choice of strategies C. O'Byrne (T. Rabilloud, M. Hébraud) - General discussion		
	12:15	Lunch		
	13:30	End of the Summer school		

Facultative and not included in the registration fee for participants outside the ITN List_MAPS project



