High Content Screening for Therapeutics Discovery

August 29th to



"Click to the poster of the course"



Program



August 29[™]

Designing & establishing cell-based assays for screening			
08:00 - 09:00	Meeting with the participants	Atrium	
09:00 - 10:00	Welcome & Round table presentation	Conference room	
10:00 - 10:40	Introduction to high content analysis and screening Regis Grailhe	Conference room	
10:40 - 11:20	Production of reproducible cell material and quality assessment David Shum	Conference room	
11:20 - 12:00	Assay development and optimization for cell based assay David Shum	Conference room	
12:00 - 13:00	Lunch		
13:00 - 14:00	HTS assay development for discovery of new antibacterial molecules Soojin Jang	Conference room	
14:00 - 16:00	[Practical training] Practice on cell infection assay	Laboratory, 3F R&D	
16:00 - 17:30	[Pasteur seminar] Cell Based Assay for Infectious Disease Studies Nathalie Aulner	Conference room	
17:30 -	Welcome Dinner		



Tuesday August 30[™]

Advanced cel	I-based assa	ys tor scr	eening

9:30 - 10:30	Advanced models: HTS using 3D tissue models Haengran Seo	Conference room
10:30 - 12:00	[Practical training] Advanced models: HTS using 3D tissue models	Laboratory, 3F R&D
12:00 - 13:00	Lunch	Conference room
13:00 - 14:30	Assay development and functional genomics David Shum	Conference room
14:30 - 16:00	[Practical training] Assay development and functional genomics	Laboratory, 3F R&D
16:00 - 17:30	[Pasteur seminar] Deciphering early gut infection by shigella flexneri with bioimage analysis Jean-Yves Tinevez	Conference room



Wednesday August 31st

HCS instrumentation and automation systems

9:30 - 10:30	Adapting your assay to your instrumentation Regis Grailhe	Conference room
10:20 - 11:00	Sample management and automation	Conference room
11:00 - 12:00	Overview on available HCS instrumentation	Conference room
12:00 - 13:00	Lunch	Conference room
13:00 - 14:30	[Practical training] HCS instrumentation technologies	Laboratory, 3F R&D
14:30 - 16:00	[Practical training] Liquid handling and automation	Laboratory, 3F R&D
16:00 - 17:30	[Pasteur seminar] HTS/HCS strategies in forward and reverse chemogenomic workflows for bio-discovery Mikael Bouille	Conference room
17:30 - 18:00	Group presentation preparation	PC room, 3F R&D



Thursday September 1ST

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9:30 - 10:30	Overview of HCS analysis software	Conference room
10:30 - 12:00	Practical training: HCS analysis software	PC room, 3F R&D
12:00 - 13:00	Lunch	
13:00 - 14:00	Data analysis and storage of screening hits Inhee Choi	Conference room
14:00 - 15:30	Data curation for integrated database and visualization (featuring DOTMATICS) Inhee Choi	PC room, 3F R&D
15:30 - 17:00	[Pasteur seminar] Leaving conventional image analysis behind: new open super-resolution and deep-learning technologies to empower your cell-based assays **Ricardo Henriques**	Conference room



Friday September 2ND



Group presentation preparation

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9:30 - 11:00	Group presentation (20 min / group * 4 groups)	Conference room
11:00 - 12:00	Course Evaluation	Conference room
12:00 - 13:00	Lunch	
13:00 - 14:00	Round table & closing ceremony	Conference room





PC room, 3F R&D

17:00 - 18:00