

Course: Course on High Throughput Screening and Image Analysis for Biosciences

Date: 27-31 Maio 2019

	Monday, 27	Tuesday, 28	Wednesday, 29	Thursday, 30	Friday, 31
09:30	Registration and Reception	High Content Imaging Systems Véronique Berchet, Perkin Elmer	LAB Session III Group 1 (HCI Operetta, Exp#1) Group 2 (EnVision, Exp#4) Group 3 (ImgStream, Exp#3) Group 4 (GloMax, Exp#2)	Lab Session V Image segmentation using machine learning - Ilastik Anna Kreshuk, EMBL	LAB Session VII Introduction to CellProfiler Analyst all groups together Huw Summers, Swansea U
09:45					
10:00	Welcome & introduction to the course	High Throughput Flow imagers Peter Rhein, Luminex, Merck	Coffee-break	Coffee-break	Coffee-break
10:15	High Content Imaging and Screening André Maia, i3S				
10:30					
10:45					
11:00	Coffee-break	Coffee-break	Coffee-break	Lab Session V cont Anna Kreshuk, EMBL	Lab Session VII CellProfiler Analyst cont Paul Rees, Swansea U
11:15					
11:30	Imaging in Flow Maria Lázaro, i3S	Multi-mode microplate readers Mara Colzani, Perkin Elmer	LAB Session III Group 1 (EnVision Exp#4) Group 2 (HCI Operetta, Exp#1) Group 3 (GlowMax, Exp#2) Group 4 (ImgStream, Exp#3)	Invited scientist seminar Uncovering the impact of DNA damage on mitotic progression and cancer cell fate Marco Cruz, i3S	Lunch
11:45					
12:00	Target and Drug Discovery António Pombinho, i3S	Lab automation and liquid handling David Ley, PAA			
12:15					
12:30					
13:00	Lunch	Lunch	Lunch		
13:30					
14:00	Light microscopy overview Paula Sampaio, i3S	HTS/HCS Imaging Tools Carlos Lopez, Thermo Fisher Scientific	Lab Session IV Introduction to ImageJ all groups together Eduardo Conde-Sousa, i3S	High Content Image Analysis Romain Guiet, EPFL	Data Analysis Hugo Botelho, BioISI, UL
14:15					
14:30	Light and Image Formation António Pereira, i3S	Drug Discovery with cell-based assays Mei Cong, Promega	LAB Session III Group 1 (ImgStream, Exp#3) Group 2 (GlowMax, Exp#2) Group 3 (HCI Operetta, Exp#1) Group 4 (EnVision, Exp#4)	Lab Session VI Introduction to CellProfiler all groups together Romain Guiet, EPFL	LAB Session VIII shinyHTM Explorer: Inspection and statistical analysis of high throughput microscopy data all groups together Hugo Botelho, BioISI, UL
14:45					
15:00	LAB Sessions Overview André Maia / Maria Lázaro, i3S	LAB session II			Coffee-break & Group Photo
15:15					
15:30					
15:45					
16:00	Coffee-break			Coffee-break	LAB Session VIII shinyHTM Explorer: Inspection and statistical analysis of high throughput microscopy data all groups together Hugo Botelho, BioISI, UL
16:15					
16:30	LAB session I Groups 1-2 (Experiment #1, #3)	Coffee-break	Coffee-break	Lab Session VI cont	LAB Session VIII shinyHTM Explorer: Inspection and statistical analysis of high throughput microscopy data all groups together Hugo Botelho, BioISI, UL
16:45					
17:00	LAB session I Groups 3-4 (Experiment #2)	LAB session II	LAB Session III Group 1 (GloMax, Exp#2) Group 2 (ImgStream, Exp#3) Group 3 (EnVision, Exp#4) Group 4 (HCI Operetta, Exp#1)	CellProfiler Romain Guiet, EPFL	Roundtable, experimental workdiscussion, evaluation questionnaire
17:15					
17:30	LAB session I Groups 1-2 (Experiment #2)				Certificates of attendance
17:45					
18:00	LAB session I Groups 3-4 (Experiment #1, #3)			Social program (optional)	Goodbye!
18:15				Dinner downtown (éLeBê Entreparedes)	Exam (required only for ECTS)
18:30					

Seminar | Auditorium Corino de Andrade

Technology | Auditorium Corino de Andrade

Practical | check LAB Sessions program

Practical Lab Sessions

Lab Session	Experiment	Equipment	Faculty	Group	Time	Room
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