qbio
quantitative
biology

LAB1

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OBJECTIVES OF THE LAB1 MODULE

Initiation on good practices on how to conduct research in a lab :

1. Series of seminars (9 seminars)
2. Two practical stays in a research lab (Lab1.1 and 1.2)
3. Evaluation of the research conducted during the practicals

MODULE LAB1

SERIES OF SEMINARS

Day	Time	Name	Topic
Reported	TBD	Marie Laure Parmentier	Green Science
Wed January 26	10h30 - 12h	Caroline Clerte	H&S - Lab notebooks
Thu January 27	10h30 -12h	Cherine Bechara & Manu Margeat	Oral and poster presentation 1
Mon January 31	14h - 15h30	Thierry Gostan	General statistics & concept of epistemology
Wed February 2	10h30 - 12h	Sophie Nicole	Scientific Integrity
Mon February 7	9h-10h30	Cherine Bechara & Manu Margeat	Oral and poster presentation 2
Mon February 7	10h30 - 12h	Laure Lefrancois	Open Science
Wed February 9	10h30 - 12h	Jean Philippe Villemin	Data visualisation
TBD	TBD	Luca Ciandrini	How to write a report

MODULE LAB1

Two practical stays in a research lab
2 x 12 days

- Lab 1.1 : February 3rd / March 18th

  Thursdays / Fridays (except holidays)

- Lab 1.2 : March 31th / May 6th

  Thursdays / Fridays (except last 2 weeks)

1 or 2 students per practical
Lab1.1 and 1.2 advisors should be different

semaine 5 31/01-04/02	9h45-11h15			10h30 - 12h : S. Nicole		
	11h30-13h					
	13h15-14h45	14h-15h30 : T.Gostan	Biol syst modeling with Python, salle info, FdS (Jacques)			
	15h-16h30					
	16h45-18h15					
	18h30-20h				1.1	
semaine 6 07/02-11/02	8h-9h30	9h - 10h30 : Bechara & Margeat	Biol syst modeling with Python, salle info, FdS (Jacques)			
	9h45-11h15	10h30 - 12h : L.Lefrancois		10h - 12h : JP.Villemin		
	11h30-13h					
	13h15-14h45					
	15h-16h30					
	16h45-18h15					
	18h30-20h				1.2	
semaine 7 14/02-18/02	8h-9h30	début : 9h00 9h-10h20 Intro EM (Patrick) 10h20-11h Intro EM (Patrick, NPP) 11h-11h15 (Intro Xtal, Stefano, NPP) 11h15-12h45 Intro Xtal (Stefano) 12h45-13h(Intro Xtal, Stefano, NPP)	EM (Joséphine) + Xtal (François) (rotation des groupes) 8h30-10h10 (Joséphine) 10h30-11h30 (François) 11h30-13h (NPP)	EM (Joséphine) + Xtal (François) (rotation des groupes) 8h30-10h10 (Joséphine) 10h30-11h30 (François) 11h30-13h (NPP)		
	9h45-11h15					
	11h30-13h					
	13h15-14h45		EM (Joséphine) + Xtal (François) (rotation des groupes, NPP)	EM (Joséphine) + Xtal (François) (rotation des groupes, NPP)		
	15h-16h30					
	16h45-18h15					
	18h30-20h				1.3	
semaine 08 21/02-25/02	8h-9h30		Biol syst modeling with Python, salle info, FdS (Jacques)			
	9h45-11h15					
	11h30-13h					
	13h15-14h45					
	15h-16h30					
	16h45-18h15					
	18h30-20h				1.4	
semaine 9 28/02-04/03	8h-9h30	Vacances FdS				
	9h45-11h15					
	11h30-13h					
	13h15-14h45					
	15h-16h30					
	16h45-18h15					
	18h30-20h					
semaine 10 07/03-11/03	8h-9h30	9h-10h EM (Patrick) 10h-10h45 EM (Patrick, NPP) 10h45-12h00 EM (Stefano) 12h00-13h EM (Patrick, NPP)	9h-10h EM (Patrick) 10h-10h45 EM (Patrick, NPP) 10h45-12h00 EM (Stefano) 12h00-13h EM (Patrick, NPP)	9h00-10h20 Xtal - François (vérification de la croissance) 10h20-13h Xtal - François (vérification de la croissance, NPP)		
	9h45-11h15					
	11h30-13h					
	13h15-14h45	EM (temps réservé pour le travail des étudiants)	EM (temps réservé pour le travail des étudiants)			
	15h-16h30			**15h-17h Xtal (Stefano)**		
	16h45-18h15					
	18h30-20h				1.5	
semaine 11 14/03-18/03	8h-9h30					
	9h45-11h15	9h45-11h45 Xtal (Stefano) 11h45-13h (Stefano, NPP)	9h45-11h45 Xtal (Stefano) 11h45-13h (Stefano, NPP)			
	11h30-13h					
	13h15-14h45	Xtal (temps réservé pour le travail des étudiants)	Xtal (temps réservé pour le travail des étudiants)	Stochastic models and Bayesian learning, Salle info FdS (Ovidiu)		
	15h-16h30					
	16h45-18h15					
	18h30-20h				1.6	

	18h30-20h					
semaine 13 28/03-01/04	8h-9h30					
	9h45-11h15					
	11h30-13h					
	13h15-14h45	Biol syst modeling with Python, salle info, FdS (Jacques)		Stochastic models and Bayesian learning, Salle info FdS (Ovidiu)		
	15h-16h30					
	16h45-18h15					
	18h30-20h				2.1	Session 2 impairs Master - Pas de CM >80 étudiants
semaine 14 04/04-08/04	8h-9h30					
	9h45-11h15	Mass Spec				
	11h30-13h					
	13h15-14h45					
	15h-16h30					
	16h45-18h15					
	18h30-20h				2.2	
semaine 15 11/04-15/04	8h-9h30					
	9h45-11h15		Biol sys, salle info, FdS (Marion)			
	11h30-13h					
	13h15-14h45					
	15h-16h30					
	16h45-18h15					
	18h30-20h				2.3	
semaine 16 18/04-22/04	8h-9h30	Férié				
	9h45-11h15		Biol sys, salle info, FdS (Marion)			
	11h30-13h					
	13h15-14h45					
	15h-16h30					
	16h45-18h15					
	18h30-20h				2.4	
semaine 17 25/04-29/04	8h-9h30					
	9h45-11h15					
	11h30-13h					
	13h15-14h45					vacances scolaires
	15h-16h30					
	16h45-18h15					
	18h30-20h		2.5 / 2.6		2.5 / 2.6	
semaine 18 02/05-06/05	8h-9h30					
	9h45-11h15					
	11h30-13h					
	13h15-14h45					vacances scolaires - vacances FdS
	15h-16h30					
	16h45-18h15					
	18h30-20h		2.5 / 2.6		2.5 / 2.6	

	Convention de stage				
	Convention d'accueil				
	SUPERVISOR NAME	**LAB**	**TOPIC**	**STUDENTS**	**STUDENTS**
Lab1.1	BONNET	CBS	Rapid prototyping of genetic logic gates	Nessim	Christelle
	BUFFARD / RADULESCU	LPHI	Semi-quantitative analysis of signaling networks in oncology	Richmond	Sania
	CORTIJO	BPMP	Study of transcriptional variability between cells and between plants	Emilie	
	LEMAIRE	CBS	Search for ligands of NHR-8, a parasitic nematode nuclear receptor, to overcome anti-infectious drug resistance	Ali	Hye-Rin
Lab1.2	NOLLMANN	CBS	Hi-M	Ali	Nessim
	CAMBRAY	CBS	Impact of ribosome recycling on translation	Hye-Rin	Emilie
	BECHARA	IGF	Structural analysis of the interaction between bacterial toxins and human chemokine receptors	Christelle	Sania
	CIANDRINI	CBS	Gene expression economy	Richmond	

MODULE LAB1

Restitution / Evaluation :

- Lab 1.1 : Oral presentation (~20 mins + questions) in the second half of May (one presentation / group)

- Lab 1.2 : Written report in the second half of may (one report / group)

- Lab 1.1 and 1.2 :
  - Quality of the student's lab book, evaluated by the supervisor. (One lab book per student)
  - Short assessment from the supervisor : student's work, motivation and commitment (for each student)

- All aspects seen in seminars have to be treated in the restitutions

- Health and safety issues / Environmental impact / Proper statistics, reproducibility / Presentation of the data, bibliography / Open science /…