

SYSTEMS BIOLOGY, master program

ACADEMIC CALANDER for Spring, 2023
2 semester

Date 2022-11-28

Month	Day	Week day	time starts	Class time ends	Course	Tuitor	Platform/Room	Building	Comments
February	4	VI							
	5	VII							
	6	I	9	14	Mathematical Modelling:DE	O. Štikonienė	Teams		
	7	II	10	14	Mathematical Modelling: GT	J. Žilinskas	Teams		
			15	18	Transcriptomics: Research areas and objectives of transcriptomics.☒	G. Alzbutas	Teams		
	8	III	9	14	Mathematical Modelling:DE	O. Štikonienė	309	MIF1	
			15	19	Transcriptomics: Techniques and technologies in transcriptomics.☒	G. Alzbutas	Teams		
	9	IV	14	17	Transcriptomics: Single-cell transcriptomics methods	J. Nainys	Teams		
	10	V	9	13	Mathematical Modelling: GT	J. Žilinskas	224	MF1	
	13	I	9	14	Mathematical Modelling:DE	O. Štikonienė	Teams		
	14	II	14	17	Transcriptomics: Single-cell transcriptomics methods	J. Nainys	Teams		
	15	III	9	14	Mathematical Modelling:DE	O. Štikonienė	TBA	MIF2	
	16	IV			Day off				
	17	V			Siūlau neplanuoti tarp nedarbo dienų				
	20	I	9	14	Mathematical Modelling:DE	O. Štikonienė	Teams		
	21	II	10	14	Mathematical Modelling: GT	J. Žilinskas	Teams		
	22	III	9	14	Mathematical Modelling:DE	O. Štikonienė	TBA	MIF1	
	23	IV	13	18	Transcriptomic data analysis: Introduction to Python tools for transcriptomic data analysis	R. Žilionis and J. Žvirblytė	Teams		
	24	V	9	13	Mathematical Modelling: GT	J. Žilinskas	224	MF1	
	27	I	9	14	Mathematical Modelling:DE	O. Štikonienė	Teams		
			14	18	Transcriptomics: Omics integration at patient level	E. Preikšaitienė, E. Siavrienė	Teams		
	28	II	10	16	Mathematical Modelling: GT	J. Žilinskas	Teams		
	1	III	9	14	Mathematical Modelling:DE	O. Štikonienė	TBA	MIF2	
	2	IV	13	18	Transcriptomic data analysis: From raw counts to visualized scRNA-seq data	R. Žilionis and J. Žvirblytė	Teams		
	3	V	9	15	Mathematical Modelling: GT	J. Žilinskas	224	MF1	
March	6	I	9	14	Mathematical Modelling:DE	O. Štikonienė	Teams		
	7	II	10	14	Mathematical Modelling: GT	J. Žilinskas	Teams		
	8	III	9	14	Mathematical Modelling:DE	O. Štikonienė	TBA	MIF2	
	9	IV	13	18	Transcriptomic data analysis: From raw counts to visualized scRNA-seq data	R. Žilionis and J. Žvirblytė	Teams		
	10	V	9	13	Mathematical Modelling: GT	J. Žilinskas	224	MF1	
			15	19	Science forum. Master thesis and Research proposal	O. Rukšėnas, A. Jakaitienė	234	MF1	
	13	I	9	13	Mathematical Modelling:DE	O. Štikonienė	Teams		
	14	II	9	13	Mathematical Modelling:BS	D. Krapavickaitė	Teams		
	15	III	9	13	Mathematical Modelling:DE	O. Štikonienė	TBA	MIF1	
	16	IV	13	18	Transcriptomic data analysis: "Y = PX"-centric view of PCA	R. Žilionis and J. Žvirblytė	Teams		
	17	V	9	11	Mathematical Modelling: GT	J. Žilinskas	224	MF1	Test
			15	19	Mathematical Modelling:BS	D. Krapavickaitė	224	MF1	
	20	I	13	18	Transcriptomic data analysis: scRNA-seq data analysis using Scanpy	R. Žilionis and J. Žvirblytė	Teams		
	21	II							
	22	III	9	11	Mathematical Modelling:DE	O. Štikonienė	TBA	MIF2	Test
	23	IV	13	18	Transcriptomic data analysis: scRNA-seq data analysis using Scanpy	R. Žilionis and J. Žvirblytė	Teams		
	24	V	9	13	Mathematical Modelling:BS	D. Krapavickaitė	Teams		
	27	I	13	17.5	Transcriptomic data analysis: working with multiple samples	R. Žilionis and J. Žvirblytė	Teams		
	28	II	15	19	Mathematical Modelling:BS	D. Krapavickaitė	226	MF1	
	29	III							
	30	IV	13	17.5	Transcriptomic data analysis: working with multiple samples	R. Žilionis and J. Žvirblytė	Teams		
	31	V	9	13	Mathematical Modelling:BS	D. Krapavickaitė	Teams		

April	3	I	Easter holidays				
	4	II					
	5	III					
	6	IV					
	7	V					
	10	I	Easter				
	11	II	15	19 Mathematical Modelling:BS	D. Krapavickaitė	226	MF1
	12	III	10	20 Transcriptomics: Lecture (Transcriptomics and metabolomics) + Practicals	G. Albutas	Teams	
	13	IV	10	20 Transcriptomics: Integrative analysis of transcriptomics and proteomics data	G. Albutas	Teams	
	14	V	9	13 Mathematical Modelling:BS	D. Krapavickaitė	Teams	
	17	I	10	20 Transcriptomics: Lecture (Role gene expression studies) + Practicals	G. Albutas	Teams	
	18	II	12	16 Transcriptomics. Data mining.	Erinija Pranckevičienė	Teams	
	19	III	15	19 Mathematical Modelling:BS	D. Krapavickaitė	226	MF1
	20	IV	12	16 Transcriptomics. Data mining.	Erinija Pranckevičienė	Teams	
	21	V	15	19 Mathematical Modelling:BS	D. Krapavickaitė	224	MF1
	24	I	10	17 Transcriptomics: Seminar	G. Albutas	Teams	
	25	II	12	15 Transcriptomics. Data mining.	Erinija Pranckevičienė	Teams	
	26	III	10	12 Mathematical Modelling:BS	D. Krapavickaitė	224	MF1
	27	IV	15	18 Transcriptomics: practicals (finalization and discussion)	G. Albutas	Teams	Test
	28	V	11	15 Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
May	1	I	Day off				
	2	II	9	13 Science forum: Mathematical modelling of DNA mechanics	D. Petkevičiūtė-Gerlach	Teams	
	3	III	10	17 Epigenomics (wet lab)	K. Daniūnaitė and R. Maleckaitė (wet lab)	R334	LSC
	4	IV	9	13 Science forum: Mathematical modelling of DNA mechanics	D. Petkevičiūtė-Gerlach	226	MF1
	5	V	11	15 Epigenomics (practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	TBA (R209?)	LSC
	8	I	11	15 Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	9	II	12	16 Science Forum: Galaxy	E.Pranckevičienė	Teams	
	10	III	10	17 Epigenomics (wet lab)	K. Daniūnaitė and R. Maleckaitė (wet lab)	R334	LSC
	11	IV	12	16 Science Forum: Galaxy	E.Pranckevičienė	Teams	
	12	V	9	13 Epigenomics (practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	15	I	11	17 Epigenomics (wet lab)	K. Daniūnaitė and R. Maleckaitė (wet lab)	R334	LSC
	16	II	9	13 Epigenomics (wet lab + lecture)	K. Daniūnaitė and R. Maleckaitė (wet lab)	R334	LSC
	17	III	10	16 Epigenomics (lecture + practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	18	IV	12	16 Science Forum: Galaxy	E.Pranckevičienė	Teams	
	19	V	11	15 Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	TBA (R209?)	LSC
	22	I	11	15 Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	23	II	16	18 Science forum: Image Analysis: Digital Image Fundamentals	A. Rasmusson	362	MIF1
	24	III	11	15 Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	25	IV	12	16 Science Forum: Galaxy	E.Pranckevičienė	Teams	
	26	V	15	18 Science forum: Image Analysis: Intensity Transformations + Color Images	A. Rasmusson	362	MIF3
	29	I					
	30	II	16	18 Science forum: Image Analysis: Filtering in image space	A. Rasmusson	362	MIF1
	31	III	11	15 Epigenomics (practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	1	IV	15	18 Science forum: Image Analysis: Filtering in frequency space	A. Rasmusson	362	MIF1
	2	V					
	5	I					
	6	II	16	18 Science forum: Image Analysis: Image Segmentation	A. Rasmusson	362	MIF1

June	7	III	11	13 Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	TBA	LSC
	8	IV	15	18 Science forum: Image Analysis: Mathematical Morphology	A. Rasmusson	362	MIF1
	9	V					
	12	I	15	18 Science forum: Image Analysis: Component Labeling + Object Recognition	A. Rasmusson	362	MIF1
	13	II					
	14	III					
	15	IV					
	16	V					
	19	I	13	17 Science forum. Master thesis and Research proposal	A. Jakaitienė, O. Rukšėnas	Teams	
	20	II					
	21	III					
	22	IV					
	23	V					
	26	I					
	27	II					
	28	III					
	29	IV					
	30	V					
July	1	VI		Beginning of summer holiday			

Abbreviations

LSC	Life sciences center, Saulėtekio str. 7
MF1	Faculty of Medicine, Čiurlionio str. 21
MF2	Faculty of Medicine, Santariškių str. 2
MIF1	Faculty of Mathematics and informatics, Naugarduko str., 24
MIF2	Faculty of Mathematics and informatics, Šaltinių str. 1A
MIF3	Faculty of Mathematics and informatics, Didlaukio str. 47
TFS	Thermo Fisher Scientific Baltics
NCI	National Cancer institute, Baublio str 3b
VPC	P.Baublio str. 5, Santariskiu
EVAF	Faculty of Economics and Business Administration, II building, Sauletekio str. 9
TBA	to be agreed