

SYSTEMS BIOLOGY, master program

ACADEMIC CALANDER for Spring, 2023
2 semester

Tvirtinu/Approved.....

VU MF Dekanas /Dean prof. D. Jatužis

Date

Tvirtinu/Approved.....

SPK/SPC

Date 2022-11-28

Mo nth	Day	We ek day	Class time Starts	Class time ends	Course	Tutor	Platform /Room	Buildi ng	Comme nts
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	TBA	MIF1	
			15	19	Transcriptomics: Techniques and technologies in transcriptomics.	G. Alzbutas	Teams		
	9	IV	14	17	Transcriptomics: Single-cell transcriptomics	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	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	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		
	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	O. Rukšėnas, A. Jakaitienė	234	MF1		
March	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	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. Alzbutas	Teams		
	13	IV	10	20	Transcriptomics: Integrative analysis of transcriptomics and proteomics data	G. Alzbutas	Teams		
	14	V	9	13	Mathematical Modelling:BS	D. Krapavickaitė	Teams		
	17	I	10	20	Transcriptomics: Lecture (Role gene expression studies) + Practicals	G. Alzbutas	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. Alzbutas	Teams		
	25	II	12	15	Transcriptomics. Data mining.	Erinija Pranckevičienė	Teams		
26	III	10	12	Mathematical Modelling:BS	D. Krapavickaitė	224	MF1	Test	
27	IV	15	18	Transcriptomics: practicals (finalization and	G. Alzbutas	Teams			
28	V	11	15	Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams			
	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	

May	5	V	11	15	Epigenomics (practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	BA (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)	BA (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 Fur	A. Rasmusson		MIF3
	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		MIF3
	29	I						
	30	II	16	18	Science forum: Image Analysis: Filtering in image	A. Rasmusson		MIF3
	31	III	11	15	Epigenomics (practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	
	1	IV	15	18	Science forum: Image Analysis: Filtering in frequ	A. Rasmusson		MIF3
2	V							

June	5	I					
	6	II	16	18	Science forum: Image Analysis: Image Segmentat	A. Rasmusson	MIF3
	7	III	11	13	Epigenomics	K. Daniūnaitė and R. Maleckaitė (wet lab)	TBA LSC
	8	IV	15	18	Science forum: Image Analysis: Mathematical M	A. Rasmusson	MIF3
	9	V					
	12	I	15	18	Science forum: Image Analysis: Component Labeling + Object Recognition	A. Rasmusson	MIF3
	13	II					
	14	III					
	15	IV	14	18	Science forum. Master thesis and Research	O. Rukšėnas, A. Jakaitienė	Teams
	16	V					
	19	I					
	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. 21/27
MF2	Faculty of Medicine, Santariškių str. 2
MIF1	Faculty of Mathematics and informatics, Naugarduko str., 24
MIF2	Šaltinių str. 1A
MIF3	Didlaukio str. 47
TFS	Thermo Fisher Scientific Baltics
NCI	National Cancer institute, Baublio str 3b

VPC	P.Baublio str. 5, Santariskiu
	Faculty of Economics and Business
EVAF	Administration, II building, Sauletekio str. 9
TBA	to be agreed