

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

Month	Day	Week day	Class 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	TBA	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		
		14	18	Transcriptomics: Omics integration at patient level	E. Preikšaitienė	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			

March	24	V	9	13	Mathematical Modelling: GT	J. Žilinskas	224	MF1		
	27	I	9	14	Mathematical Modelling:DE	O. Štikonienė	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	
	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	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	

May

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 Fundan	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 spa	A. Rasmusson		MIF3
31	III	11	15	Epigenomics (practice)	K. Daniūnaitė and R. Maleckaitė (wet lab)	Teams	

June	1	IV	15	18	Science forum: Image Analysis: Filtering in frequency	A. Rasmusson		MIF3
	2	V						
	5	I						
	6	II	16	18	Science forum: Image Analysis: Image Segmentation	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 Morphology	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 str. 1A
- MIF3 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 Administration,
EVAF	II building, Sauletekio str. 9
TBA	to be agreed