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26. Journals not registered in the Current Contents Connect database and published in the country	
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Fooultry Er	University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science								
<b>Course ID:</b> ACM/12	Course ID: ÚBEV/       Course name: Analytical Cytometry         ACM/12       Course name: Analytical Cytometry							
Course ty Recomme Per week:	pe: Lecture nded cours	e-load (hours tudy period:	s):					
Number of	ECTS crea	lits: 4						
Recommen	ided semest	er/trimester	of the cours	e:				
Course lev	el: II., III.							
Prerequisit	ties:							
Conditions	for course	completion:						
analytical c on fluresce application sample pre <b>Brief outlin</b> Fundament microscopy parameters Fluorescen cytosceleto oxygen and <b>Recommen</b>	of the course eytometry. T ince and its is in cytolog paration etc <b>ne of the con</b> tals of flue y Analyses analyses, in t dyes and on stainings, d nitrogen sp <b>inded literat</b>	urse: orescent method on living cen naging method their applicat visualization becies (ROS, 1	ers multiple a confocal mi on of vital pa hods, princip lls – princip ls with regar- ions in anal of cell organo	areas of meth croscopy, me arameters and iples of flu ples, hardwa d to lipids, cy ytical cytom elles, vital sta	ods in microsorphometric orphometric l live cell ima orescence. I re requirement vtoskeleton dy hetry – nucle hinings, mem	scopy with s measurement aging, basic Principles of ents, method ynamics or c cic acid, lipi	pecial focus nts and their methods for of confocal ds for vital cell division. d, proteins,	
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Laboratory 2. J.B. Paw 3. D. Ansel	Press, 2010 Press, 2010 Pley a kol.: H Imetti a kol.	.: Live Cell In	Biological Co Analysis, Wi	onfocal Micro ley-Blackwe	oscopy, Sprin 11, 2009	nger, 2006		
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Provides: RNDr. Rastislav Jendželovský, PhD.

Date of last modification: 29.01.2020

Approved: prof. RNDr. Eva Čellárová, DrSc.

		c University in						
Faculty: Faculty of Science								
Course ID: ÚBEV/ Course name: Aplikovaná mikrobiológia AMK/15								
Course type, s Course type: Recommende Per week: 2 / Course methe	Lecture ed course 2 Per st	/ Practice e-load (hours udy period: 2	s):					
Number of EC	CTS cred	lits: 5						
Recommended	d semest	er/trimester	of the course	e:				
Course level: I	III.							
Prerequisities:	:							
<b>Conditions for</b> Attendance of		-	%), final exar	nination				
Študenti získa biochemikálií	a o využ	ití rekombina	ntných DNA	techník v p	riemysle. Ďa	lej získajú i	nformácie o	
biochemikálií kyselinu mlieč mikroorganizm biopalivá. <b>Brief outline o</b> Application o recombinant D	ajú prehľ a o využ čnu produ nov pri o of the cou of bacter DNA tech	ití rekombina ukujúcich bak ochrane život urse: ria in indust iniques in indust	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic	techník v p využití v p dia – čisten ses, biocher acid bacteria	riemysle. Ďa otravinársko ie odpadový nicals produ and its appl	lej získajú i m priemysle vch vôd, bic uction. App ication in fo	nformácie o e a o využití premediácia, plication of od industry.	
biochemikálií kyselinu mlieč mikroorganizm biopalivá. <b>Brief outline o</b> Application o	a o využ čnu produ nov pri o of the cou of bacter DNA tech in food q	ití rekombina ukujúcich bak ochrane život urse: ria in indust niques in indust juality control	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic I. Application	techník v p využití v p dia – čisten ses, biocher acid bacteria n of microor	riemysle. Ďa otravinársko ie odpadový nicals produ and its appl ganisms in e	lej získajú i m priemysle vch vôd, bio uction. App ication in fo nvironment	nformácie o e a o využití premediácia, plication of od industry.	
biochemikálií kyselinu mlieč mikroorganizm biopalivá. <b>Brief outline o</b> Application o recombinant D Microbiology	a o využ čnu produ nov pri o of the cou of bacter DNA tech in food q catment, b	ití rekombina ukujúcich bak ochrane život urse: ria in indust niques in indust juality control	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic I. Application	techník v p využití v p dia – čisten ses, biocher acid bacteria n of microor	riemysle. Ďa otravinársko ie odpadový nicals produ and its appl ganisms in e	lej získajú i m priemysle vch vôd, bio uction. App ication in fo nvironment	nformácie o e a o využití premediácia, plication of od industry.	
biochemikálií kyselinu mlieč mikroorganizm biopalivá. <b>Brief outline o</b> Application o recombinant D Microbiology wastewater trea <b>Recommende</b>	a o využ čnu produ nov pri o of the cou of bacter DNA tech in food q eatment, b d literatu	ití rekombina ukujúcich bak ochrane život urse: ria in indust niques in indust juality control	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic I. Application	techník v p využití v p dia – čisten ses, biocher acid bacteria n of microor	riemysle. Ďa otravinársko ie odpadový nicals produ and its appl ganisms in e	lej získajú i m priemysle vch vôd, bio uction. App ication in fo nvironment	nformácie o e a o využití premediácia, plication of od industry.	
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biochemikálií a kyselinu mlieč mikroorganizm biopalivá. Brief outline o Application o recombinant D Microbiology wastewater trea Recommended Course langua Notes: Course assess Total number of A	a o využ a o využ inu produ nov pri o of the cou of the cou of bacter DNA tech in food q eatment, b d literatu age: ment of assesse	ití rekombina ukujúcich bak ochrane život urse: ria in indust niques in indust juality control pioremediatio ure: ed students: 1	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic I. Application n, biofuels, n	techník v p využití v p dia – čisten ses, biocher acid bacteria n of microor nicrobiology	riemysle. Ďa otravinársko ie odpadový nicals produ and its appl ganisms in e of biogas pl	lej získajú i m priemysle ch vôd, bio uction. App ication in fo nvironment ants.	nformácie o e a o využití premediácia, plication of od industry. protection –	
biochemikálií a kyselinu mlieč mikroorganizm biopalivá. Brief outline o Application o recombinant D Microbiology wastewater trea Recommended Course langua Notes: Course assess Total number of A	a o využ a o využ inu produ nov pri o of the cou of bacter DNA tech in food q eatment, b d literatu age: ment of assesse B 14.29	ití rekombina ukujúcich bak ochrane život urse: ria in indust iniques in indu juality control pioremediatio ure: ed students: 1 C 21.43	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic I. Application n, biofuels, n 4 2 7.14	techník v p využití v p dia – čisten ses, biocher acid bacteria n of microory nicrobiology E	riemysle. Ďa otravinársko: ie odpadový nicals produ and its appl ganisms in e of biogas pl	lej získajú i m priemysle ch vôd, bio uction. App ication in fo nvironment ants.	P	
biochemikálií a kyselinu mlieč mikroorganizm biopalivá. Brief outline o Application o recombinant D Microbiology wastewater trea Recommended Course langua Notes: Course assess Total number o A 50.0	a o využ a o využ inu produ nov pri o of the cou of bacter DNA tech in food q eatment, b d literatu age: ment of assesse B 14.29 RNDr. F	ití rekombina ukujúcich bak ochrane život urse: ria in indust iniques in indu juality control pioremediatio ure: ed students: 1 C 21.43 Peter Pristaš, C	ntných DNA ttériách a ich ného prostre trial process ustry. Lactic I. Application n, biofuels, n 4 2 7.14 CSc.	techník v p využití v p dia – čisten ses, biocher acid bacteria n of microory nicrobiology E	riemysle. Ďa otravinársko: ie odpadový nicals produ and its appl ganisms in e of biogas pl	lej získajú i m priemysle ch vôd, bio uction. App ication in fo nvironment ants.	P	

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ Course name: Author's patents, discoveries, software					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	r <b>se-load (hours):</b> y <b>period:</b> esent				
Number of ECTS cr					
	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	Course assessment Total number of assessed students: 1				
	abs n				
	100.0 0.0				
Provides:					
Date of last modifica	tion:				
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.				

University:	P. J. Šafár	ik University i	n Košice					
Faculty: Fa	culty of Sc	cience						
<b>Course ID:</b> BI/14	Course ID: ÚBEV/ Course name: Bioinformatics BI/14							
Course ty Recomme	pe: Lecture nded cour 1 / 3 Per s	nd the method e / Practice se-load (hours study period: sent	s):					
Number of	ECTS cre	edits: 5						
Recommen	ded semes	ster/trimester	of the cours	se:				
Course leve	el: III.							
Prerequisit	ies:							
		e <b>completion:</b> n seminars, ac	complishme	nt of bioinfor	matic tasks,	oral examin	ation	
	Decialized	bioinformatic 1 orking with th	-		-		-	
databases d system, co dependent a DNA, RNA areas. Clou	edicated for mmand lin methods. P A and proto d analysis	sic and advance or the students so ne approaches. Possibilities of eins. Presentation and NGS data n levels of gene	specialized i Computati sequencing ion of biolog	n biological d onal tools in and genotypin gical data ori	lisciplines. B the analysing. Study of ginating from	asics of Linu is of the PO individual s m the different	ax operating CR reaction equences of ent "Omics"	
Fatima Cvr Neil C. Jon 026210106 Andreas D.	aum: Unde čková: Úv es, Pavel A 8, MIT Pre Baxevanis	erstanding Bioi od do prakticko A. Pevzner: An	é bioinforma Introduction Ouellette: H	atiky, ISBN: 8 n to Bioinforr Bioinformatic	80-200-1360 natics Algor s: A Practica	ithms, ISBN	[:	
Course lang slovak, eng	0 0							
Notes:								
<b>Course ass</b> Total numb		sed students: 1	8					
	r					r		
А	В	C	D	E	FX	N	Р	

Provides: RNDr. Miroslav Soták, PhD.

**Date of last modification:** 03.05.2015

Approved: prof. RNDr. Eva Čellárová, DrSc.

University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚBEV/ CM/04							
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:						
Number of ECTS cr	edits: 20						
Recommended seme	ster/trimester of the course:						
Course level: III.							
Prerequisities:							
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c	ourse:						
Recommended litera	Recommended literature:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 0							
Provides:							
Date of last modifica	tion:						
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.						

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ Course name: Citation in scientific journal published abroad CZC/04					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr					
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 41				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modifica	ition:				
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	science				
Course ID: ÚBEV/ Course name: Citation in scientific journal published in the country of residence					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent				
Number of ECTS cr	redits: 5				
Recommended seme	ester/trimester of the cour	se:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 5				
	abs	n			
	100.0	0.0			
Provides:					
Date of last modifica	ation:				
Approved: prof. RN	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ Course name: Citation registered in Science Citation Index SCI/04						
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent					
Number of ECTS cr						
	ster/trimester of the cours	e:				
Course level: III.						
Prerequisities:	,					
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	ature:					
Course language:						
Notes:	· · · · · · · · · · · · · · · · · · ·					
<b>Course assessment</b> Total number of asse	ssed students: 63					
	abs	n				
	100.0 0.0					
Provides:						
Date of last modifica	ation:					
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.					

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	Science					
Course ID: ÚBEV/ SMPR/04Course name: Co-worker of project supported by international grant schemes						
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent					
Number of ECTS cr						
	ester/trimester of the cour	se:				
Course level: III.						
Prerequisities:						
Conditions for cour	se completion:					
Learning outcomes:						
Brief outline of the o	course:					
Recommended liter	ature:					
Course language:						
Notes:						
<b>Course assessment</b> Total number of asse	ssed students: 39					
	abs	n				
	100.0	0.0				
Provides:		•				
Date of last modific:	ation:					
Approved: prof. RN	Dr. Eva Čellárová, DrSc.					

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ Course name: Co-worker of project supported by national grant schemes SDPR/04						
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:					
Number of ECTS cr	redits: 2					
Recommended seme	ester/trimester of the cours	e:				
Course level: III.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the o	course:					
Recommended litera	ature:					
Course language:						
Notes:						
<b>Course assessment</b> Total number of asse	ssed students: 397					
	abs	n				
	100.0 0.0					
Provides:						
Date of last modifica	ation:					
Approved: prof. RN	Dr. Eva Čellárová, DrSc.					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> ÚBEV/ DK/04	Course name: Conference	in the country of residence	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b>	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	ssed students: 138		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ntion:		
Approved: prof. RN	Dr. Eva Čellárová, DrSc.		

Faculty: Faculty of Science         Course ID: ÚBEV/       Course name: Cytogenetics and Karyology         CK1/03       Course name: Cytogenetics and Karyology
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present
Number of ECTS credits: 4
Recommended semester/trimester of the course:
Course level: II., III.
Prerequisities:
Conditions for course completion: written tests, protocols, oral examination
Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping.
Brief outline of the course: Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation o cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it?
Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources
Course language:
Notes:
Course assessment Total number of assessed students: 1289
A B C D E FX N P
24.9 14.58 15.67 14.58 17.61 11.71 0.0 0.93
Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.
Date of last modification: 03.05.2015

Approved: prof. RNDr. Eva Čellárová, DrSc.

Faculty: Fa	aculty of Sc	eience					
<b>Course ID</b> CTP1/01	: ÚBEV/	Course name:	: Cytopathol	ogy			
Course ty Recomme Per week:	pe: Lecture ended cour	se-load (hours ly period: 28					
Number of	f ECTS cre	dits: 3					
Recommer	nded semes	ter/trimester	of the cours	se:			
Course lev	el: II., III.						
Prerequisi	ties:						
<b>Conditions</b> Oral exami		e completion:					
<del>т</del> •							
To provide	the studen	ts with a know	ledge of bas	ic biological	principles of	carcinogene	esis.
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommen Sherbet, G	e the studen ne of the co elopment. T Apoptosis tastasis sup Proteinases nded literar	ourse: Fumor growth a in tumor grow pressor genes. and their inhib	and metastati th and meta Angiogenes pitors in cano Genetics of (	ic potential. C stasis. Oncog sis in cancer. cer invasion. Cancer. Gene	Cell cycle reg genes and ca Cell surface Radio-, chen	ulation and p ncer. Tumor glycoprotein no- and imm	athogenesi suppresso ns and thei unotherapy
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G	e the studen ne of the co elopment. T Apoptosis tastasis sup Proteinases nded literat .V., Lakshn and Cell Pi . V.: The bi	ourse: Fumor growth a in tumor grow pressor genes. and their inhib ture: ni, M. S.: The (	and metastati th and meta Angiogenes bitors in cano Genetics of 6 cademic Pres	ic potential. C stasis. Oncog sis in cancer. cer invasion. Cancer. Gene ss, London, 1	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997	ulation and p ncer. Tumor glycoprotein no- and imm	athogenesi suppresso ns and thei unotherapy
Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G Course lan	e the studen ne of the co elopment. T Apoptosis tastasis sup Proteinases nded literat .V., Lakshn and Cell Pi . V.: The bi	ourse: Fumor growth a in tumor grow pressor genes. and their inhib ture: ni, M. S.: The o roliferation. Ac	and metastati th and meta Angiogenes bitors in cano Genetics of 6 cademic Pres	ic potential. C stasis. Oncog sis in cancer. cer invasion. Cancer. Gene ss, London, 1	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997	ulation and p ncer. Tumor glycoprotein no- and imm	athogenesi suppresso ns and thei unotherapy
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G Course lan Notes: Course ass	e the studen ne of the co relopment. T Apoptosis tastasis sup Proteinases nded literar .V., Lakshn and Cell Pi . V.: The bi nguage:	ourse: Fumor growth a in tumor grow pressor genes. and their inhib ture: ni, M. S.: The o roliferation. Ac	and metastati th and meta Angiogenes pitors in cano Genetics of ( cademic Pres r malignancy	ic potential. C stasis. Oncog sis in cancer. cer invasion. Cancer. Gene ss, London, 1	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997	ulation and p ncer. Tumor glycoprotein no- and imm	athogenesi suppresso ns and thei unotherapy
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G Course lan Notes: Course ass	e the studen ne of the co relopment. T Apoptosis tastasis sup Proteinases nded literar .V., Lakshn and Cell Pi . V.: The bi nguage:	ourse: Fumor growth a in tumor grow pressor genes. and their inhit ture: ni, M. S.: The o roliferation. Ac ology of tumor	and metastati th and meta Angiogenes pitors in cano Genetics of ( cademic Pres r malignancy	ic potential. C stasis. Oncog sis in cancer. cer invasion. Cancer. Gene ss, London, 1	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997	ulation and p ncer. Tumor glycoprotein no- and imm	athogenesi suppresso ns and thei unotherapy
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G Course lan Notes: Course ass Total numb	e the studen ne of the co elopment. T Apoptosis tastasis sup Proteinases nded literat . V., Lakshn and Cell Pi . V.: The bi nguage: eessment ber of asses	ourse: Fumor growth a in tumor grow pressor genes. and their inhib ture: ni, M. S.: The o roliferation. Ac ology of tumor sed students: 3	and metastati th and meta Angiogenes pitors in cano Genetics of ( cademic Pres r malignancy	ic potential. C stasis. Oncog sis in cancer. cer invasion. Cancer. Gene ss, London, 1 7. Academic 1	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997 Press, Londo	ulation and p incer. Tumor glycoprotein no- and imm with Cancer n, 1982	athogenesi suppresso ns and thei unotherapy r Invasion,
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G Course lan Notes: Course ass Total numb A 39.94	e the studen ne of the co elopment. T Apoptosis tastasis sup Proteinases nded literat V., Lakshn and Cell Pr V.: The bi nguage: eessment ber of asses B 21.67	Sourse: Fumor growth a in tumor grow pressor genes. and their inhib ture: ni, M. S.: The o roliferation. Ac ology of tumor sed students: 3	and metastati th and meta Angiogenes pitors in cano Genetics of ( cademic Pres r malignancy 23	E	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997 Press, Londo FX	ulation and p incer. Tumor glycoprotein no- and imm with Cancer n, 1982	athogenesi suppresso ns and thei unotherapy r Invasion,
To provide Brief outlin Tumor dev of cancer. genes. Met receptors. I Recommer Sherbet, G Metastasis Shebert, G Course lan Notes: Course ass Total numb A 39.94 Provides: p	e the studen ne of the co elopment. T Apoptosis tastasis sup Proteinases nded literat .V., Lakshn and Cell Pr .V.: The bi nguage: essment ber of asses B 21.67 prof. RNDr.	Sourse: Fumor growth a in tumor grow pressor genes. and their inhite ture: ni, M. S.: The of roliferation. Ac ology of tumor sed students: 3 C 20.74	and metastati th and meta Angiogenes pitors in cano Genetics of ( cademic Pres r malignancy 23 23 23 8.98 5ko, CSc.	E	Cell cycle reg genes and ca Cell surface Radio-, chen s Associated 997 Press, Londo FX	ulation and p incer. Tumor glycoprotein no- and imm with Cancer n, 1982	athogenesi suppresso ns and thei unotherapy r Invasion,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> ÚBEV/ ODZP/14	Course name: Defence of	of Doctoral Thesis	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 30		
Recommended seme	ester/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	ssed students: 38		
	Ν	Р	
	0.0	100.0	
Provides:			
Date of last modific:	ation: 03.05.2015		
Approved: prof. RN	Dr. Eva Čellárová, DrSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> ÚBEV/ DZS/14	Course name: Dissertation	examination	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	<b>rse-load (hours):</b> ly <b>period:</b> esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
<b>Prerequisities:</b> ÚBE	V/VEK3/11		
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	ssed students: 51		
	Ν	Р	
	0.0	100.0	
Provides:			
Date of last modifica	ition: 03.05.2015		
Approved: prof. RN	Dr. Eva Čellárová, DrSc.		

University: P. J. Ša	fárik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: CJP/ AJD1/07	Course na	me: English Lar	guage for PhD	Students 1	
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	tice burse-load (ho tudy period: bresent	ours):			
Number of ECTS					
Recommended sen	nester/trimes	ter of the cours	e:		
Course level: III.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcome	s:				
Brief outline of the	e course:				
<b>Recommended</b> lite	rature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of ass		s: 584			
N	Ne	Р	Pr	abs	neabs
0.0	0.0	56.85	0.0	43.15	0.0
Provides: PhDr. He	elena Petruňov	rá, CSc., Mgr. Ζι	ızana Kolaříkov	á, PhD.	1
Date of last modifi	cation: 03.10	.2019			
Approved: prof. R	NDr. Eva Čell	árová, DrSc.			

University: P. J. Ša	afárik Universi	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: CJP/ AJD2/07	Course na	me: English Lar	iguage for PhD S	Students 2	
Course type, scop Course type: Prac Recommended co Per week: 2 Per s Course method:	ctice ourse-load (he study period: present	ours):			
Number of ECTS					
Recommended ser	nester/trimes	ter of the cours	e:		
Course level: III.					
Prerequisities:					
Conditions for cou	irse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
<b>Course assessmen</b> Total number of as	-	ts: 569			
N	Ne	Р	Pr	abs	neabs
0.0	0.0	92.44	1.41	6.15	0.0
Provides: PhDr. H	elena Petruňov	vá, CSc., Mgr. Zu	ızana Kolaříkov	á, PhD., Mgr. Ba	rbara Mitríková
Date of last modif	ication: 26.02	.2020			
Approved: prof. R	NDr. Eva Čell	árová, DrSc.			

University:	P. J. Šafári	k University i	n Košice				
Faculty: Fa	culty of Sc	ience					
<b>Course ID:</b> EMK/15	ÚBEV/	Course name	: Environme	ntálna mikro	biológia		
Course ty Recomme Per week:	pe: Lecture nded cours	se-load (hours tudy period:	s):				
Number of	ECTS cre	dits: 5					
Recommen	ded semes	ter/trimester	of the cours	se:			
Course leve	el: II., III.						
Prerequisit	ies:						
		completion: ols (at least 909	%), final ora	l examinatio	n		
of most fre organisms. <b>Brief outlin</b> Evolution a	students da quently occ ne of the co and biodive	ta on participa curing microbi <b>ourse:</b> ersity of micro roorganisms,	al communi	ties and inter	sms in enviro	onment, the	is with other
and other o		ioorganisiiis,	biogeoenem	ical cycles, i	interactions o		loorgamisms
Recommen	ded literat	ure:					
Course lan	guage:						
Notes:							
Course ass Total numb		sed students: 4	.9				
А	В	C	D	Е	FX	N	Р
46.94	28.57	2.04	0.0	4.08	0.0	0.0	18.37
<b>Provides:</b> p Pristaš, CSc		Jana Sedlákov	vá, PhD., RI	NDr. Lenka N	Maliničová, P	hD., doc. Rl	NDr. Peter
Date of last	t modificat	ion: 03.05.20	15				

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚBEV/ FG/14	Course name: Functional genomics
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	e / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cro	edits: 5
Recommended seme	ster/trimester of the course:
Course level: II., III.	
Prerequisities:	
<b>Conditions for cours</b> Active participation in	e completion: n practical and theoretical courses
genes, RNA transcrip genome-wide approace a more traditional "ge	attempts to answer questions about the function of DNA at the levels of ots, and proteins. A key characteristic of functional genomics studies is their ch to these questions, generally involving high-throughput methods rather than ene-by-gene" approach. The outcome of this course will be understanding of nethods used in functional genomics and their application in research as well
<ul> <li>input of genome sequ</li> <li>Genome-wide reversuse in functional geno</li> <li>Transcriptomics: meto</li> <li>Proteomics: metho</li> <li>analysis, data mining</li> <li>Metabolomics: metho</li> <li>data analysis, data mi</li> <li>* Interactomics - propractical use of the action</li> <li>Biological databases</li> </ul>	tional genomics onal genomics: sequenced model organisms, conceptual and methodological encing, structural vs. functional genome annotation se genetics: techniques to create collections of genome-wide mutants and their omics ethods to obtain transcriptome data, data analysis, data mining ds to obtain proteome data, quantitative vs. qualitative proteomics, data hods to obtain metabolomic data, quantitative vs. qualitative metabolomics,
<b>Recommended litera</b> Internet sources, Pow	
<b>Course language:</b> English	
Notes:	
	· · · · · · · · · · · · · · · · · · ·

Course ass Total numb	essment per of assesse	d students: 9	1				
А	В	С	D	Е	FX	Ν	Р
25.27	25.27	25.27	6.59	12.09	2.2	0.0	3.3
	RNDr. Andrea ., RNDr. Kata D.		, ,		,	,	
Date of last	t modificatio	on: 06.03.20	19				

Approved: prof. RNDr. Eva Čellárová, DrSc.

University: P. J. Š	afárik	University in	n Košice				
Faculty: Faculty of	of Scien	nce					
<b>Course ID:</b> ÚBEV GM1/03	// <b>C</b> o	ourse name:	Gene Mani	oulations			
Course type, scop Course type: Lee Recommended o Per week: 2 / 2 I Course method:	cture / ourse- 'er stu	Practice -load (hours dy period: 2	):				
Number of ECTS							
Recommended se	meste	r/trimester	of the cours	e:			
Course level: II.,	II.						
Prerequisities: Ú	BEV/U	JGM1/03					
Conditions for co	urse c	ompletion:					
Learning outcom	es:						
Brief outline of th	e cou	rse:					
Recommended lit	eratu	re:					
Course language:							
Notes:							
<b>Course assessmer</b> Total number of a		d students: 1	79				
A E	6	С	D	Е	FX	Ν	Р
48.04 26.	26	10.06	4.47	2.23	0.56	0.0	8.38
Provides: doc. RN	Dr. Pe	eter Pristaš, C	CSc., RNDr.	Mariana Ko	lesárová, PhI	).	
Date of last modi	ficatio	<b>n:</b> 03.05.201	5				
Approved: prof. H	NDr.	Eva Čellárov	vá, DrSc.				

	• 1. J. Salai	ik University i	II KOSICE				
Faculty: Fa	aculty of So	cience					
<b>Course ID</b> : GC1/01	: ÚBEV/	Course name:	: Human Ger	netics			
Course ty Recomme Per week:	pe: Lecture ended cour	se-load (hours study period: 2	s):				
Number of	f ECTS cre	edits: 5					
Recommen	nded semes	ster/trimester	of the cours	e:			
Course lev	<b>el:</b> II., III.						
Prerequisit	ties:						
Conditions	for cours	e completion:					
-	students w with the in	with a basics of heritance, diag	•		•		pathologic
<b>T</b> T1					• • •	0 . 1 1	
population used in hu	ic basics o genetics; t man geneti	of physiologica he patterns of cs - genealogy, DNA diagnosis	inheritance a	and pedigree lysis and the	problem sol gene mappin	ving; the bas ng, cytogene	sic methods tic analysis
population used in hur and karyot <b>Recommen</b> Thompson Philadelph Friedman J Baltimore,	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland,	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: pson MW (200 vania, USA , Hayden MR,	inheritance a , linkage ana s of patholog 1): Genetics	and pedigree lysis and the ical traits; th in Medicine	problem solve gene mappin e treatment o 6/e. W.B.Sou	ving; the bas ng, cytogene f genetic dis unders Comp	sic methods tic analysis orders. pany,
population used in hur and karyot Recommen Thompson Philadelph Friedman J Baltimore, Course lan	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland,	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: pson MW (200 vania, USA , Hayden MR,	inheritance a , linkage ana s of patholog 1): Genetics	and pedigree lysis and the ical traits; th in Medicine	problem solve gene mappin e treatment o 6/e. W.B.Sou	ving; the bas ng, cytogene f genetic dis unders Comp	sic methods tic analysis orders. pany,
population used in hur and karyot <b>Recommen</b> Thompson Philadelph Friedman J Baltimore,	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland,	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: pson MW (200 vania, USA , Hayden MR,	inheritance a , linkage ana s of patholog 1): Genetics	and pedigree lysis and the ical traits; th in Medicine	problem solve gene mappin e treatment o 6/e. W.B.Sou	ving; the bas ng, cytogene f genetic dis unders Comp	sic methods tic analysis orders. pany,
population used in hur and karyot Recommen Thompson Philadelph Friedman J Baltimore, Course lan Notes: Course ass	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland, guage: essment	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: pson MW (200 vania, USA , Hayden MR,	inheritance a , linkage ana s of patholog 1): Genetics McGillivray	and pedigree lysis and the ical traits; th in Medicine	problem solve gene mappin e treatment o 6/e. W.B.Sou	ving; the bas ng, cytogene f genetic dis unders Comp	sic methods tic analysis orders. pany,
population used in hur and karyot Recommen Thompson Philadelph Friedman J Baltimore, Course lan Notes: Course ass	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland, guage: essment	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: oson MW (200 vania, USA , Hayden MR, USA	inheritance a , linkage ana s of patholog 1): Genetics McGillivray	and pedigree lysis and the ical traits; th in Medicine	problem solve gene mappin e treatment o 6/e. W.B.Sou	ving; the bas ng, cytogene f genetic dis unders Comp	sic methods tic analysis orders. pany,
population used in hur and karyot Recommen Thompson Philadelph Friedman J Baltimore, Course lan Notes: Course ass Total numb	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland, guage: essment per of asses	of physiologica he patterns of cs - genealogy, DNA diagnosis <b>ture:</b> bson MW (200 vania, USA , Hayden MR, USA sed students: 1	inheritance a linkage ana of patholog 1): Genetics McGillivray	and pedigree lysis and the ical traits; th in Medicine BC (1996):	problem solve gene mappin e treatment o 6/e. W.B.Sou Genetics 2/e.	ving; the bas ng, cytogene f genetic dis inders Comp Williams &	sic methods etic analysis orders. pany, Wilkins,
population used in hur and karyot Recomment Thompson Philadelph Friedman J Baltimore, Course lan Notes: Course ass Total numb A 25.33	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland, nguage: essment per of asses B 14.49	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: bson MW (200 vania, USA , Hayden MR, USA sed students: 1 C	inheritance a linkage ana of patholog 1): Genetics McGillivray 208 D 14.16	and pedigree lysis and the ical traits; th in Medicine BC (1996):	FX	ving; the bas ng, cytogene f genetic dis inders Comp Williams &	sic methods etic analysis orders. pany, Wilkins, P
population used in hur and karyot Recomment Thompson Philadelph Friedman J Baltimore, Course lan Notes: Course ass Total numb A 25.33 Provides: F	ic basics of genetics; t man geneti yping, the l nded litera JS, Thomp ia, Pennsyl IM, Dill FJ Maryland, nguage: essment per of asses B 14.49 RNDr. Kata	of physiologica he patterns of cs - genealogy, DNA diagnosis ture: bson MW (200 vania, USA , Hayden MR, USA sed students: 1 C 16.39	inheritance a , linkage ana s of patholog 1): Genetics McGillivray 208 D 14.16 á, PhD.	and pedigree lysis and the ical traits; th in Medicine BC (1996):	FX	ving; the bas ng, cytogene f genetic dis inders Comp Williams &	sic methods etic analysis orders. pany, Wilkins, P

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
<b>Course ID:</b> ÚBEV/ NEM/04	Course name: Implementa	ation of new experimental methodology		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	ature:			
Course language:				
Notes:				
<b>Course assessment</b> Total number of asse	ssed students: 75			
abs n				
100.0 0.0				
Provides:				
Date of last modifica	ntion:			
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
<b>Course ID:</b> ÚBEV/ MK/04	Course name: Internation	al Conference		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of ECTS cr				
Recommended seme	ster/trimester of the cours	se:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	ature:			
Course language:				
Notes:				
<b>Course assessment</b> Total number of asse	ssed students: 213			
abs n				
100.0 0.0				
Provides:				
Date of last modifica	ition:			
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.			

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ DKZU/04Course name: International conference taking place in the country of residence					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent				
Number of ECTS credits: 4					
Recommended seme	ester/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 114				
	abs n				
	100.0 0.0				
Provides:	Provides:				
Date of last modific:	ation:				
Approved: prof. RN	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	science				
Course ID: ÚBEV/ (NC/04Course name: Journals not registered in the Current Contents Connect database and published abroad					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent				
Number of ECTS cr	redits: 5				
Recommended seme	ester/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 54				
	abs n				
	100.0 0.0				
Provides:					
Date of last modifica	ation:				
Approved: prof. RN	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚBEV/ DNC/04Course name: Journals not registered in the Current Contents Connect database and published in the country of residence					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent				
Number of ECTS cr					
	ester/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	ature:				
Course language:					
Notes:	3				
<b>Course assessment</b> Total number of asse	ssed students: 42				
	abs n				
	100.0 0.0				
Provides:					
Date of last modifica	ation:				
Approved: prof. RN	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚBEV/Course name: Journals registered in the Current Contents Connect databaseKC/04and published abroad					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:				
Number of ECTS cr	redits: 20				
Recommended seme	ester/trimester of the cour	se:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 245				
	abs n				
	100.0 0.0				
Provides:					
Date of last modifica	ation:				
Approved: prof. RN	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	science				
<b>Course ID:</b> ÚBEV/ DKC/04					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent				
Number of ECTS cr	edits: 15				
Recommended seme	ester/trimester of the cou	se:			
Course level: III.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended liter	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 16				
	abs n				
	100.0 0.0				
Provides:					
Date of last modific:	ation:				
Approved: prof. RN	Dr. Eva Čellárová, DrSc.				

<b>University:</b> P. J. Šafárik University in Košice	University:	P. J. Šafárik	University in Košice	
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Faculty: Faculty of Science

Course ID: ÚBEV/	Course name: Model Organisms in Genetics
MOG/03	

# Course type, scope and the method:

Course type: Lecture / Practice

**Recommended course-load (hours): Per week:** 2 / 2 **Per study period:** 28 / 28

Course method: present

Number of ECTS credits: 5

#### **Recommended semester/trimester of the course:**

Course level: II., III.

Prerequisities:

#### **Conditions for course completion:**

protocols,

participation at a mini conference: Model organism for my diploma thesis,

oral examination

#### Learning outcomes:

To provide the students with an information on model systems of prokaryotic and eukaryotic organisms used in genetic research.

#### **Brief outline of the course:**

Basic properties of model organisms used in genetics. Viral models in genetics (Tobacco mosaic virus, Lambda phage, PhiX174 phage). Prokaryotic model systems (Escherichia coli, Diplococcus pneumoniae, Agrobacterium tumefaciens and A. rhizogenes). Another prokaryotic models (Bacillus subtilis, Caulobacter crescentus, Mycoplasma genitalium, Synechocystis sp.), Model systems of simple eukaryotic organisms (Saccharomyces cerevisiae, Neurospora crassa, Aspergillus nidulans, Dictiostelium discoideum). Animal model systems (Drosophila melanogaster, Caenorhabditis elegans, Danio rerio, Mus musculus). Another animal models (Xenopus laevis, Ambystoma mexicanum, Chrysemys picta, Anolis carolinensis, Fugu rubripes, Gallus gallus, Heterocephalus glaber). Plant model organisms (Pisum sativum, Arabidopsis thaliana, Nicotiana tabacum, Zea mays, Selaginella moellendorffii, Brachypodium distachyon, Lotus japonicus, Populus trichocarpa). Mendel's laws. Morgan's rules. Genetic databases. Model organisms and their role in the treatment of human genetic disorders.

#### **Recommended literature:**

Snustad, P.D., Simmons, M.J.: Genetika. Nakladatelství Masarykovy univerzity, Brno, 2009, 871 str.,

Genetic periodicals,

Internet sources

#### Course language:

Notes:

Course assessment Total number of assessed students: 1272							
A B C D E FX N P							
23.9 15.02 15.8 14.31 18.08 11.95 0.0 0.94							
Provides: doc. RNDr. Eva Vranová, PhD., RNDr. Miroslav Soták, PhD., RNDr. Andrea Kimáková, PhD., RNDr. Katarína Nigutová, PhD., prof. RNDr. Eva Čellárová, DrSc.							
Date of last modification: 06.03.2019							
Approved: prof. RNDr. Eva Čellárová, DrSc.							

Faculty F	• I. J. Dalalik	University i	n Košice				
Lacuny. 10	aculty of Scie	ence					
Course ID: ÚBEV/ MZO1/03Course name: Molecular basis of ontogenetic development							
Course ty Recomme Per weeks	be, scope and pe: Lecture ended course : 2 Per study nethod: prese	e-load (hour period: 28					
Number of	f ECTS cred	its: 3					
Recommen	nded semeste	er/trimester	of the cours	e:			
Course lev	el: II., III.						
Prerequisi	ties:						
Conditions Oral exam	s for course of ination.	completion:					
developme Brief outlin	of basic known ent of animal ne of the cou	and plant org	ganisms.				
developme specialised	ent. Cell det l cell types. E	ermination a pigenetic me	nd differenti chanisms of c	iation. Mole cellular mem	ecular mecha ory. Imprintin	nisms of fo ng. Combina	tory control
developme specialised of eukaryo	ent. Cell det l cell types. E tic genes. Re . Establishme	ermination a pigenetic me gulatory gene	nd differenti chanisms of c es. Establishr	iation. Mole cellular mem nent of cell	ecular mecha ory. Imprintin position. For	nisms of for ng. Combina nation of the	ormation of tory control e embryonic
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J.,	ent. Cell det l cell types. E tic genes. Re . Establishme	ermination a pigenetic me gulatory gen- ent of the m re: A.: Cells, Em	nd differenti chanisms of c es. Establishr ain axis of b	iation. Mole cellular mem ment of cell j oody. Shape	ecular mecha ory. Imprintin position. Form formation. C	nisms of fong. Combina nation of the Cloning of n	ormation of tory control e embryonic
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J.,	ent. Cell det l cell types. E tic genes. Re Establishme nded literatu Kirschener, M sett, Oxford, L	ermination a pigenetic me gulatory gen- ent of the m re: A.: Cells, Em	nd differenti chanisms of c es. Establishr ain axis of b	iation. Mole cellular mem ment of cell j oody. Shape	ecular mecha ory. Imprintin position. Form formation. C	nisms of fong. Combina nation of the Cloning of n	ormation of tory control e embryonic
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J., Massachus	ent. Cell det l cell types. E tic genes. Re Establishme nded literatu Kirschener, M sett, Oxford, L	ermination a pigenetic me gulatory gen- ent of the m re: A.: Cells, Em	nd differenti chanisms of c es. Establishr ain axis of b	iation. Mole cellular mem ment of cell j oody. Shape	ecular mecha ory. Imprintin position. Form formation. C	nisms of fong. Combina nation of the Cloning of n	ormation of tory control e embryonic
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J., Massachus <b>Course lan</b> <b>Notes:</b> <b>Course ass</b>	ent. Cell det l cell types. E tic genes. Re Establishme nded literatu Kirschener, M sett, Oxford, L	ermination a pigenetic me gulatory gene ent of the m me: <i>A</i> .: Cells, Em ondon,1997	nd differenti chanisms of c es. Establishr ain axis of b bryos and Ev	iation. Mole cellular mem ment of cell j oody. Shape	ecular mecha ory. Imprintin position. Form formation. C	nisms of fong. Combina nation of the Cloning of n	ormation of tory control e embryonic
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J., Massachus <b>Course lan</b> <b>Notes:</b> <b>Course ass</b>	ent. Cell det l cell types. E tic genes. Re . Establishme nded literatu ,Kirschener,M sett,Oxford,L nguage:	ermination a pigenetic me gulatory gene ent of the m me: <i>A</i> .: Cells, Em ondon,1997	nd differenti chanisms of c es. Establishr ain axis of b bryos and Ev	iation. Mole cellular mem ment of cell j oody. Shape	ecular mecha ory. Imprintin position. Form formation. C	nisms of fong. Combina nation of the Cloning of n	ormation of tory control e embryonic
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J., Massachus <b>Course lan</b> <b>Notes:</b> <b>Course ass</b> Total numb	ent. Cell det l cell types. E tic genes. Re . Establishme nded literatu ,Kirschener,N sett,Oxford,L guage: essment ber of assesse	ermination a pigenetic me gulatory gen- ent of the m re: A.: Cells, Em ondon,1997	nd differenti chanisms of c es. Establishr ain axis of b bryos and Ev	iation. Mole cellular mem nent of cell p oody. Shape volution. Bla	ecular mecha ory. Imprintin position. Forr formation. C	nisms of fo ng. Combina nation of the Cloning of m e Inc.,	ormation of tory control e embryonic nulticellular
developme specialised of eukaryo body plan. organisms. Recommer Gerhard,J., Massachus Course lan Notes: Course ass Total numb A 35.5	ent. Cell dete l cell types. E tic genes. Re Establishme nded literatu Kirschener, M sett, Oxford, L guage: essment ber of assesse B	ermination a pigenetic mea gulatory gene ent of the m mere: A.: Cells, Em ondon,1997 ed students: 3 C 12.2	nd differentichanisms of ces. Establishrain axis of bebryos and Eventser and Events	E 8.67	Ecular mecha         ory. Imprinting         position. Formation. Contraction. Contraction         iccwell Science         FX         5.96	nisms of for ng. Combina nation of the Cloning of n e Inc., N 0.0	P
developme specialised of eukaryo body plan. organisms. <b>Recommer</b> Gerhard,J., Massachus <b>Course lan</b> <b>Notes:</b> <b>Course ass</b> Total numb A 35.5 <b>Provides:</b> p	ent. Cell det l cell types. E tic genes. Re . Establishme nded literatu Kirschener, M sett, Oxford, L guage: sessment ber of assesse B 21.68	ermination a pigenetic mea gulatory gene ent of the m re: A.: Cells, Em ondon,1997 ed students: 3 C 12.2 Eva Mišúrova	and differentichanisms of ces. Establishmain axis of besteen between the second	E 8.67	Ecular mecha         ory. Imprinting         position. Formation. Contraction. Contraction         iccwell Science         FX         5.96	nisms of for ng. Combina nation of the Cloning of n e Inc., N 0.0	P

University: P. J. Šafa	arik University in Košice		
Faculty: Faculty of S	Science		
<b>Course ID:</b> ÚBEV/ NZ/04	<b>D:</b> ÚBEV/ <b>Course name:</b> Non-reviewed collections of papers and monographs published abroad or in the country of residence		
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period: esent		
Number of ECTS ci			
Recommended sem	ester/trimester of the cours	ie:	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the	course:		
<b>Recommended liter</b>	ature:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	essed students: 125		
	abs	n	
	100.0	0.0	
Provides:		·	
Date of last modific	ation:		
Approved: prof. RN	Dr. Eva Čellárová, DrSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	science		
<b>Course ID:</b> ÚBEV/ RZ/04			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	ssed students: 281		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ation:		
Approved: prof. RN	Dr. Eva Čellárová, DrSc.		

Faculty: Fa		k University in	II KUSICC				
-	culty of Sci	ence					
<b>Course ID:</b> BTR1/06	ID: ÚBEV/ Course name: Plant Biotechnology						
Course typ Recomment Per week:	pe: Lecture nded cours	e-load (hours audy period: 2	s):				
Number of	ECTS crea	lits: 6					
Recommen	ded semest	er/trimester	of the course	2:			
Course leve	e <b>l:</b> I., II., III	•					
Prerequisit	ies:						
	icipation at	<b>completion:</b> the practicals,	, written test,	protocols,			
Learning of To gain the		practical kno	wledge on pl	ant tissue cu	lture in vitro		
embryoids research and	olant tissue and organs d praxis. Cr	urse: culture. Genet cultured in yopreservation s and express	vitro under n of plant cell	sterile condi s and tissues	tions. Use c	of the tissue	e culture in
Recommen Slater A. et	al.: Plant B	iotechnology.	Oxford Univ	•			
	/			teennorogy.	willey-blaci	cwell, 2011,	601 pp.
Wink M. (E	and Interne				whicy-black	well, 2011,	601 pp.
Wink M. (E Periodicals	and Interne				willey-Blaci	well, 2011,	601 pp.
Wink M. (E Periodicals Course lang Notes: Course asso	and Interne guage: essment		59			xwell, 2011,	601 pp.
Wink M. (E Periodicals Course lang Notes: Course asso	and Interne guage: essment	t sources	59 D	E	FX	N	601 pp.
Wink M. (E Periodicals <b>Course lang</b> <b>Notes:</b> <b>Course asso</b> Total numb	and Interne guage: essment er of assess	ed students: 1					
Wink M. (E Periodicals <b>Course lang</b> <b>Notes:</b> <b>Course asso</b> Total numb A 38.99	and Interne guage: essment er of assess B 19.5 rof. RNDr.	ed students: 1	D 8.81	E 11.32	FX 3.14	N 0.0	P 4.4
Wink M. (E Periodicals Course lang Notes: Course asso Total numb A 38.99 Provides: p Vranová, Ph	and Interne guage: essment er of assess B 19.5 rof. RNDr. aD.	ed students: 1 C 13.84	D 8.81 i, DrSc., RNI	E 11.32	FX 3.14	N 0.0	P 4.4

University:	P. J. Šafári	ik University i	n Košice				
Faculty: Fa	culty of Sc	ience					
<b>Course ID:</b> GEP/12	Course ID: ÚBEV/ GEP/12Course name: Population Genetics						
Course typ Recommen	pe: Lecture nded cours 2 / 1 Per s	se-load (hours tudy period: 2	s):				
Number of	ECTS cre	dits: 4					
Recommen	ded semes	ter/trimester	of the cours	se:			
Course leve	e <b>l:</b> II., III.						
Prerequisiti	ies:						
<b>Conditions</b> Exam.	for course	completion:					
ground of (mutation, s	population selection, r	out genetic int genetics. Ide migration, gen on structure. G	entify, chara etic drift).	acterize and Interactions 1	compare fur leading to int	ndamental r	nechanisms
Fundamenta cases of rat mutations. drift, fixation selection in	ecting popu al models in ndom mati Assortative on/eliminat haploid an	ourse: alations. Gener n population ge ing (Bruce's g e mating, calco tion of alleles ad diploid popu- ecular evolution	enetics. Hard genotype rat ulation and in small po ulations. Pop	ly-Weinberg ios, Sex-link interpretatio pulations. Or	theorem for 2 ked genes). If n of inbreed ne-way, two-	2, 3 and n alle Population g ing coefficie way migrati	eles. Special enetics and ent. Genetic on. Natural
HARTL, D. RELICHOV	RTON. R. ( . L. and CL VÁ, J. (200	c <b>ure:</b> (2004): Introdu ARK, A. G. (2 01): Genetika p cs of Populatio	2007): Princ opulací. Ma	iples of Popu sarykova uni	ulation Genet iverzita Brno	ics. 4th ed. S	
Course lang	guage:						
Notes:							
Course asse Total numb		sed students: 1	056				
		sed students: 1 C	056 D	E	FX	N	Р

Date of last modification: 06.03.2019

Approved: prof. RNDr. Eva Čellárová, DrSc.

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
<b>Course ID:</b> ÚBEV/ ZSP/04					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr					
	ster/trimester of the cours	<b>e:</b> 6., 8.			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	course:				
Recommended litera	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 95				
	abs	n			
	100.0	0.0			
Provides:		-			
Date of last modifica	ation:				
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
<b>Course ID:</b> ÚBEV/ IG/04	Course ID: ÚBEV/ G/04Course name: Receiving a grant under Internal Scientific Grant System (VVGS)			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the cours	e: 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
<b>Course assessment</b> Total number of asse	ssed students: 150			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ition:			
Approved: prof. RN	Dr. Eva Čellárová, DrSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Science		
<b>Course ID:</b> ÚBEV/ VPBB/11	Course name: Review of	a Bachelor Thesis	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ester/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	ssed students: 17		
	abs	n	
	100.0	0.0	
Provides:		•	
Date of last modifica	ation:		
Approved: prof. RN	Dr. Eva Čellárová, DrSc.		

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ Course name: Samostatné štúdium odbornej literatúry SSOL/04				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:	· · · · · · · · · · · · · · · · · · ·			
<b>Course assessment</b> Total number of asse	ssed students: 239			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ation:			
Approved: prof. RN	Dr. Eva Čellárová, DrSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> Dek. PF UPJŠ/JSD/14	Course name: Spring Scho	ool for PhD Students	
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	e rse-load (hours): y period: 4d		
Number of ECTS cr	edits: 2		
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asses	ssed students: 135		
	abs	n	
	100.0	0.0	
Provides: prof. RND	. Vladimír Zeleňák, DrSc.		
Date of last modifica	tion: 03.05.2015		
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.		

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
<b>Course ID:</b> ÚBEV/ VPSV/04				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr				
Recommended seme	ster/trimester of the cours	e: 6., 8.		
Course level: III.				
Prerequisities:				
<b>Conditions for cours</b>	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
<b>Course assessment</b> Total number of asse	ssed students: 18			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ation:			
Approved: prof. RN	Dr. Eva Čellárová, DrSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
<b>Course ID:</b> ÚBEV/ VYS/04				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	ature:			
Course language:				
Notes:				
<b>Course assessment</b> Total number of asse	ssed students: 226			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ation:			
Approved: prof. RNI	Dr. Eva Čellárová, DrSc.			

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
<b>Course ID:</b> ÚBEV/ PPC/04	Course name: Teaching activities				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent				
	Number of ECTS credits: 1				
	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
<b>Conditions for cours</b>	se completion:				
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 462				
	abs	n			
	100.0	0.0			
Provides:					
Date of last modification:					
Approved: prof. RNDr. Eva Čellárová, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
<b>Course ID:</b> ÚBEV/ PPC/04	Course name: Teaching activities				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent				
	Number of ECTS credits: 1				
	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
<b>Conditions for cours</b>	se completion:				
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed students: 462				
	abs	n			
	100.0	0.0			
Provides:					
Date of last modification:					
Approved: prof. RNDr. Eva Čellárová, DrSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science						
<b>Course ID:</b> ÚBEV/ POVK/04	Course name: Work in Organizing Committee of Conference					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of ECTS cr						
Recommended semester/trimester of the course:						
Course level: III.						
Prerequisities:	Prerequisities:					
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 45						
	abs	n				
	100.0	0.0				
Provides:						
Date of last modification:						
Approved: prof. RNDr. Eva Čellárová, DrSc.						

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
<b>Course ID:</b> ÚBEV/ PDS/14	Course name: Writing Dissertation Work					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
	Number of ECTS credits: 0					
	Recommended semester/trimester of the course:					
Course level: III.	Course level: III.					
Prerequisities:	Prerequisities:					
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 38					
	abs	n				
	100.0	0.0				
Provides:						
Date of last modification:						
Approved: prof. RNDr. Eva Čellárová, DrSc.						