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	Membership in a Conference organizing Committee	
	Methodology of Experimental Work	
	Modern Trends in Biotechnology.	
	Not-Reviewed International or Local Proceedings.	
	Nucleic Acids: Structure and Function.	
	Patents, Inventions, Software	
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	Presentation in Seminar.	
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10.	11 vii di Diophy di vii Chembu y	J 1

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University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ IG/04	Course name: Acquiremen	nt of Internal Grant		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr	edits: 10			
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	nture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 184				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Advances in Clinical Biochemistry PKLB/13 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: 8** Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion:** Oral examination **Learning outcomes:** Familiarize postgraduate students with newest knowledge from medicinal biochemistry and pathobiochemistry. **Brief outline of the course:** Molecular basis of medicinal biochemistry (urine, kidney, pancreas, gland, heart, blood circulation, lungs and bronchi, liver and bile duct) and its application into practice. **Recommended literature:** Rosenthal, M.D., Glew, R.H.: Medical biochemistry – human metabolism in health and disease, Wiley and Sons, 2009. **Course language: Notes:** Course assessment Total number of assessed students: 5 P N 0.0 100.0 Provides: prof. RNDr. Mária Kožurková, CSc. Date of last modification: 03.05.2015

Approved:

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚCHV/ BINF/06	Course name: Bioinform	atics				
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent					
Number of ECTS cr						
	ster/trimester of the cour	rse:				
Course level: III.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 26					
N P						
0.0 100.0						
Provides: doc. RNDr	. Peter Pristaš, CSc.					
Date of last modification: 03.05.2015						
Approved:						

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ CZC/04					
Course type: Recommended course week: Per stud Course method: pre	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 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:					
Course assessment Total number of assessed students: 49					
abs n					
100.0 0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ CDC/04	Course name: Citation i	n the Local Scientific Journal			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr	edits: 5				
Recommended seme	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	Course assessment Total number of assessed students: 1				
abs n					
100.0 0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ CM/04	Course name: Citation	in the Monograph			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
Number of ECTS cr	edits: 20				
Recommended seme	ster/trimester of the cou	irse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asse	Course assessment Total number of assessed students: 3				
	abs n				
100.0 0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ SDPR/04	Course name: Co-worker	of a Local Project			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	se:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	Course assessment Total number of assessed students: 446				
abs n					
99.78 0.22					
Provides:	Provides:				
Date of last modification:					
Approved:					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ SMPR/04	Course name: Co-worker	of an International Project			
Course type, scope a Course type: Recommended cour 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	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 38				
	abs n				
100.0 0.0					
Provides:					
Date of last modifica	tion:				
Approved:					

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ KSB/13	Course name: Conformational Stability of Proteins
Course type, scope a Course type: Lectur Recommended cour Per week: 4/2 Per Course method: pre	re / Practice rse-load (hours): study period: 56 / 28
Number of ECTS cr	edits: 8
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Examination	e completion:
folding and biosynth	n extended knowledge in the field of conformation properties of proteins, lesis of proteins, formation and characteristics of missfodled and agregated ques in study of proteins: solvent engineering, display/evolution technologies.
polypeptide backbon 2. Protein structure of proteins, conformatio 3. Proteins in solution globular proteins) — protein structure. Mis 4. Protein stability —	es of polypeptides (the polymeric nature of proteins, amino acid residues, the
York, 2004. 2. J.M. Berg, J.L. Tyr 3. Thomas E. Creight New York, 1993. 4. Articles from Scient	Michael M. Fox, Lenhinger principles of biochemistry, W.H.Freeman, New moczko, L. Stryer, Biochemistry, W.H.Freeman, New York, 2007. ton, Proteins, Structure and Molecular Properties (2nd Ed.), W.H.Freeman;
Course language:	

Notes:

Course assessment Total number of assessed students: 3				
N P				
0.0	100.0			
Provides: prof. Ing. Marián Antalík, DrSc., doc. RNDr. Erik Sedlák, DrSc., RNDr. Nataša Tomášková, PhD.				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ ODZP/2014/15	Course name: Defence	of Doctoral Thesis			
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 cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	nture:				
Course language:					
Notes:					
Course assessment Total number of asse	Course assessment Total number of assessed students: 50				
	N P				
	0.0 100.0				
Provides:					
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ PPC/04	Course name: Direct P	edagogical Activities			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:				
Number of ECTS cr	edits: 1				
Recommended seme	ster/trimester of the co	irse:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 394				
	abs		n		
	100.0 0.0				
Provides:		'			
Date of last modifica	ntion:				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ PPC/04	Course ID: ÚCHV/ Course name: Direct Pedagogical Activities PPC/04				
Course type, scope a Course type: Recommended cour 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	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 394				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modifica	tion:		-		
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ DZS/15	Course ID: ÚCHV/ Course name: Dissertation examination OZS/15				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr					
	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	nture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 51				
	N	P			
	0.0 100.0				
Provides:		·			
Date of last modifica	ntion: 03.05.2015				
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ C

Course name: English Language for PhD Students 1

AJD1/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Written assignments - professional CV, short academic biography (200-350 words).

distance mode of instruction using MS teams

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 654

N	Ne	P	Pr	abs	neabs
0.0	0.0	51.38	0.0	48.62	0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 11.02.2021

Approved:

Page: 17

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ | Course name: English Language for PhD Students 2

AJD2/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Distance mode of instruction. Online consultations.

Test, oral exam in accordance with the exam requirements (https://www.upjs.sk/filozoficka-fakulta/cjp/doktorandi-upjs/)

Learning outcomes:

Development of students' language skills, improvement of students' linguistic competencies (selected aspects of English pronunciation, vocabulary and syntax), development of students's pragmatic competence (selected aspects of functional grammar) with focus on English for academic and specific purposes. B2/C1 level of lanuage competence (according to CEFR.)

Brief outline of the course:

Specific aspecs of academic and professional English with focus on vocabulary development (noun and verb collocations, phrasal verbs, prepositional phrases, word-formation, formal/informal language, etc.), selected aspects of English grammar (prepositions, grammar tenses, passive voice, etc.), selected functional grammar (expressing opinion, cause/effect, arguments, examples, etc.). Academic communication. Cross-language interference.

Recommended literature:

Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2015

McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008

Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011

Blašková, K.: Handbook of English for Postgraduate Students. Vyd. SPRINT Bratislava, 2007

Dušková, L. a kol.: Hovorová angličtina pre vedeckých a odborných pracovníkov. Veda.

Bratislava, 1982

Armer, T.: Cambridge English for Scientists. CUP, 2011

Porter, D.: Check your vocabulary for Academic English. Macmillan Publishers Limited, 2008

Oxford Collocations Dictionary for students of English. OUP, 2002

lms.upjs.sk

Course language:

B2/C1 level according to CEFR **Notes: Course assessment** Total number of assessed students: 649 N Ne P Pr abs neabs 0.31 93.07 1.23 5.39 0.0 0.0 Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD. **Date of last modification:** 10.02.2021 **Approved:**

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ GI/06	Course name: Genetic Er	gineering			
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent				
Number of ECTS cr					
	ster/trimester of the cour	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 17				
	N	P			
	0.0 100.0				
Provides: doc. RNDr	. Peter Pristaš, CSc.				
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ MK/04	Course name: Internation	nal Conference			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr					
	ster/trimester of the cour	se:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 214				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ ZKC/04	Course name: Internationa	al Currented Journal			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
Number of ECTS cr	edits: 20				
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:					
Course assessment Total number of asses	ssed students: 302				
	abs	n			
	99.67 0.33				
Provides:					
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ ZNC/04	Course name: Internation	al Non-Currented Jounal			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
	ster/trimester of the cours	101			
Course level: III.	ster/trimester of the cours	e: 			
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 21				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ NEM/04	Course ID: ÚCHV/ Course name: Introduction of a New Experimental Method NEM/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
Number of ECTS cr	edits: 15				
Recommended seme	ster/trimester of the co	ourse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 9				
	abs	n			
	100.0	0.0			
Provides:		<u> </u>			
Date of last modifica	tion:				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ DK/04	Course name: Local C	onference			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the co	urse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 116				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modifica	tion:				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ DKZU/04	The state of the s				
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: 4				
Recommended seme	ster/trimester of the cour	se:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 216				
	abs	n			
	100.0	0.0			
Provides:		<u> </u>			
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ DKC/04	Course ID: ÚCHV/ Course name: Local Currented Journal OKC/04				
Course type, scope a Course type: Recommended cour 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	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 10				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ DNC/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the cou	rse:		
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:	Learning outcomes:			
Brief outline of the c	Brief outline of the course:			
Recommended litera	nture:			
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 18				
	abs		n	
	100.0		0.0	
Provides:				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ POVK/04	Course name: Membership in a Conference organizing Committee		
Course type, scope a Course type: Recommended cour 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 cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 39		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ MPEP/06	Course name: Methodology of Experimental 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: 4			
		0.	
Course level: III.	Recommended semester/trimester of the course:		
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 17			
	abs	n	
	100.0	0.0	
Provides: doc. RNDr. Peter Javorský, DrSc., prof. RNDr. Mária Kožurková, CSc., prof. Ing. Marián Antalík, DrSc., doc. RNDr. Viktor Víglaský, PhD., doc. RNDr. Erik Sedlák, DrSc.			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ MTB/13	Course name: Modern Trends in Biotechnology
Course type, scope a Course type: Lectur Recommended course week: 3 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 14
Number of ECTS cr	edits: 6
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Examination	e completion:
Learning outcomes: To acquaint students	with the latest knowledge and trends in biotechnology.
engineering, cloning, Biomass - Biotechno of fermenters and mi and wine. Production acetone, butanol, eth proteins for therapeu	and the use of biotechnology. The material base for biotechnology. Genetic, artificial insemination and conventional techniques of plant biotechnology. logy substrate. Biogas. Fermentation processes, cultivation equipment, types xers. Food Biotechnology: alcoholic fermentation, production of spirits, beer of dairy products, amino acids and vitamins. Manufacture of organic solvents: nanol. Biotechnology in medicine. Production of antibiotics, vaccines and tic purposes. Wastewater treatment: biological filters, membrane bioreactors, eval of solid impurities and water disinfection.
Simpson, Food Biocl 2. E. M. T. El-Mansi Microbiology and Bi 3. Principles of Ferm Elsevier Science Ltd. 4. J. G. Black, Micro	rai-Kit Nip, Leo M.L. Nollet, PhD, Gopinadhan Paliyath, Ph.D., Benjamin K. nemistry and Food Processing, Wiley-Blackwell, 2006. C. F. A. Bryce, Arnold L. Demain, A.R. Allman, Fermentation otechnology, Second Edition, CRS Press, 2006. entation Technology, Second Edition, P F Stanbury, S. Hall, A. Whitaker, 1999. biology (seventh edition), John Wiley & Sons, Inc. 2008.
6. W. Bains, Biotechi	chnology (fifth edition), UK, University Press, Cambridge, 2009. nology from A-Z (third edition), Oxford university Press, 2004.
Course language:	

Notes:

Course assessment			
Total number of assessed students: 4			
N	P		
0.0	100.0		
Provides: RNDr. Danica Sabolová, PhD.			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ NZ/04	Course name: Not-Reviewed International or Local Proceedings		
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 course	:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of asse	ssed students: 173		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Nucleic Acids: Structure and Function

NKSF/13

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

The main objective of the course is to provide studenst of PhD degree the newest trends in the field of molecular biology and biochemistry focused on nucleic acids.

Brief outline of the course:

The lead-in of the molecular genetics and biology problems, the implication of the nucleic acids for processes occurring in cells. Dividing the nucleic acids according to their chemical compound and their function, localization in the cell organelles, DNA and RNA structure, DNA topology, the chromatine structure, the histons function, dividing of the small RNA molecules and their catalytic function. Transcription in eukaryotických and prokaryotic cells: promoters, enhancers, silencers, transcription factors, initiation, post-transcription modification, processing of precursor RNA: covalent modification, hnRNA, polyadenylation, cap creation, splicing and RNA editing, transcription regulation, negative-positive, anti-termination, attenuation, cis- and transregulating elements, iRNA. Translation of the eukaryotic and prokaryotic genomes: iniciation, elongation, termination, post-translating modification, regulating mechanisms, protein folding, in vitro translating systems. Replication: iniciation, ori/ARS, the replicant factor processing mechanisms, PCR and its variations. The nucleic acids metabolism, syntheses and degradation of the purine and pyrimidin bases, gout. Mutations: the hereditary illnesses, the infulence of the outer and the initial factors to the mutagenesis induction, definition of the oncogenes and the tumor suppressing genes. Viruses: genome, morphology, function. Carcinogenesis and gene therapy. The Outlook for a successful cancer treatment. The cons and pros of the known therapeutic methods.

Recommended literature:

- 1. B. Alberts, A. Johnson, J. Lewis, M. Raff, K. Roberts, P.: Walter Molecular Biology of the Cell, Garland Science, Fifth edition, New York, NY, 2008.
- 2. Neidle S.: Cancer Drug Design and Discovery, Academic Press, First edition, 2007.
- 3. Krauss G.: Biochemistry of Signal Transduction and Regulation, Wiley-VCH Verlag GmbH, Second Edition, 2003.

Course language:

Notes:			
Course assessment Total number of assessed students: 9			
N	P		
0.0	100.0		
Provides: doc. RNDr. Viktor Víglaský, PhD.			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ PVS/04	Course name: Patents, Inventions, Software			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
	Number of ECTS credits: 2			
	Recommended semester/trimester of the course:			
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:	Learning outcomes:			
Brief outline of the c	Brief outline of the course:			
Recommended litera	iture:			
Course language:	Course language:			
Notes:	Notes:			
Course assessment Total number of asse	ssed students: 0			
	abs	n		
	0.0	0.0		
Provides:				
Date of last modifica	tion:			
Approved:	Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: KPE/ PgVU/17	Course name: Pedagogy for university teachers		
Course type, scope a			
Course type: Lectur			
Recommended cour Per week: Per stud	, ,		
Course method: pre	· -		
Number of ECTS cre			
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 33			
abs	n		neabs
100.0	100.0 0.0		
Provides: doc. PaedDr. Renáta Orosová, PhD.			
Date of last modification: 08.06.2021			
Annroved:			

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ FBB/06	Course name: Physiology and Biochemistry of Rumen Microorganisms		
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 9		
	N P		
	0.0 100.0		
Provides: doc. RNDr	. Peter Javorský, DrSc., doc	. RNDr. Peter Pristaš, CSc.	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VYS/04	ourse ID: ÚCHV/ Course name: Presentation in Seminar		
Course type, scope a Course type: Recommended cour 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 course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:			
Course assessment Total number of asse	ssed students: 182		
	abs n		
	100.0 0.0		
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Psychology for University Lecturers

KPPaPZ/PsVU/17

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: Per study period: 28s

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

University teacher and his work in the teaching process with a focus on:

teacher in relation to himself (cognitive, personality, social competencies and competencies in the use of methods), in relation to students and as part of the teacher-student relationship based on selected areas of cognitive psychology, psychology of emotions and motivation, developmental psychology, social psychology , educational psychology and health psychology with application to the university environment.

Recommended literature:

Alexitch, L. R. (2005). Applying social psychology to education. Social Psychology.–Ed.:

Schneider F., Gruman J., Coutts L.-Sage Publications, Inc, 205-228.

Fry, H., Ketteridge, S., & Marshall, S. (2008). A handbook for teaching and learning in higher education: Enhancing academic practice. Routledge.

Mareš, J.: Pedagogická psychologie. Portál, 2013.

Kniha psychologie. Universum, 2014

Čáp, J., Mareš, J.: Psychologie pro učitele. Praha: Portál 2007.

Vágnerová, M.: Školní poradenská psychológie pro pedagogy. Praha: Karolínum 2005.

Course language:

Notes:

Course assessment

Total number of assessed students: 37

abs	n	neabs
100.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 28.06.2021

Approved:	
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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Research of Individual Molecules

VIM/13

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

In biological systems, many biopolymers present in small amounts, even as individual molecules. Recently, new methods have been developed to study such systems. The lectures will be given to work regularities of such systems, as well as biochemical and biophysical research methods of individual molecules.

Brief outline of the course:

Biomacromolecules, cells in terms of their individual characteristics. Basic knowledge about the function of lasers and other devices (eg XFEL), suitable for the study of biomacromolecules. GFP protein, dyes - fluorescent probes, nano and microparticles. Atomic force microscopy - AFM, MSM. Microchip electrophoresis and microhydrodynamic devices (MEMS, Lab on a Chip). Super resolution microscopy, two-photon processes, and more. TERS, SERS, Fano resonance. SNOM, fluorescence correlation spectroscopy. GSDM, STED. Storm, FRET, TIRF. Manipulation of individual molecules, cells. Optical tweezers, magnetic tweezers, optical crystals with cavity. Electron microscopy (SEM, TEM), X-ray microscopy. Study of membrane processes, Patch clamp. The electrical conductivity of the molecules, graphene, carbon nanotubes.

Recommended literature:

- 1. Christoph Zander, Jörg Enderlein, Richard A. Keller Single molecule detection in solution: methods and applications Wiley, 2002.
- 2. Chris Gell, David Brockwell, D. Alastair Smith, Handbook of single molecule fluorescence spectroscopy, Oxford University Press, 2006.
- 3. Experimental oriented journal articles:

/ Keir C Neuman & Attila Nagy Single-molecule force spectroscopy: optical tweezers, magnetic tweezers and atomic force microscopy Nature Methods - 5, 491 - 505 (2008)

/ Chirlmin Joo, Hamza Balci, Yuji Ishitsuka,1 Chittanon Buranachai, and Taekjip Ha,

Advances in Single-Molecule Fluorescence Methods for Molecular Biology, Annual Review of Biochemistry 77, 51-76 (2008).

Course language:

Notes:		
Course assessment Total number of assessed students: 3		
N	P	
0.0	100.0	
Provides: prof. Ing. Marián Antalík, DrSc.		
Date of last modification: 03.05.2015		
Approved:		

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ VPBP/04	ourse ID: ÚCHV/ Course name: Review of a Bachelor Thesis PBP/04			
Course type, scope a Course type: Recommended cour 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 co	urse:		
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asses	ssed students: 64			
	abs n			
100.0 0.0				
Provides:		•		
Date of last modifica	tion:			
Approved:				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ RZ/04	ourse ID: ÚCHV/ Course name: Reviewed International or Local Proceedings Z/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 321		
	abs n		
	100.0 0.0		
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ SCI/04	Course name: SCI Citation			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS cr	edits: 20			
Recommended seme	ster/trimester of the cou	rse:		
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 206			
	abs n			
100.0 0.0				
Provides:				
Date of last modifica	tion:			
Approved:				

University: P. J. Šafár	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ VKBM/13	Course name: Selected Topics in Biochemistry of Microorganisms	
Course type, scope a Course type: Lectur Recommended cour Per week: 4/2 Per Course method: pre	re / Practice rse-load (hours): study period: 56 / 28	
Number of ECTS cro	edits: 8	
Recommended seme	ster/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for cours Examination	e completion:	
Learning outcomes: Familiarize postgradu	uate students with newest knowledge from Biochemistry of microorganism.	
Brief outline of the course: Diversity of microbial world – microbial evolution, taxonomy and diversity. Ecology and symbiosis – Biogeochemical cycling and introductory microbial ecology, microbial interactions. Antimicrobial chemotherapy – development of chemotherapy, general characteristics of antimicrobial drugs, determining the level of antimicrobial activity, antibacterial drugs, factor influencing antimicrobial drug effectiveness, drug resistance, antifungal, antiviral and antiprotozoal drugs. Food and industrial microbiology – microbiology of food, microorganism growth in foods, microbial and food spoilage, controlling food spoilage, food-borne pathogens. Applied and industrial microbiology – microorganisms used in industrial microbiology, major products of industrial microbiology.		
Recommended literature: 1. Black, J. G.: Microbiology, Wiley & Sons, Inc., 2008. 2. Johnson, T. R., Case, J.: Laboratory Experiments in Microbiology, 9th Ed., Pearson, 2010. 3. Kayser, F. H., Bienz, K. A., Eckert, J., Zinkernagel, R. M.: Medical Microbiology, Thieme, Stitgart-New York, 2001. 4. Levinson, W.: Review of Medical Microbiology and Immunology, McGraw-Hill International Edition, 2010. 5. Willey, J. M., Sherwood, L. M., Woolverton, C. J.: Prescott, Harley, and Klein's Microbiology, McGraw-Hill International Edition, 2008.		
Course language:		

Notes:

Course assessment		
Total number of assessed students: 6		
N P		
0.0	100.0	
Provides: prof. RNDr. Mária Kožurková, CSc.		
Date of last modification: 03.05.2015		
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ VKB/06	The state of the s		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28 Course method: present			
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the course	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 42			
N P			
0.0 100.0			
Provides: prof. Ing. Marián Antalík, DrSc.			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VKBMB/04			
Course method: pre	re / Practice rse-load (hours): study period: 28 / 28 esent		
Number of ECTS cr	edits: 8		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 41		
	N P		
	0.0 100.0		
Provides: doc. RNDr	. Peter Javorský, DrSc., doo	c. RNDr. Peter Pristaš, CSc.	
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VKI/06	Course name: Selected Topics in Immunology		
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 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	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 3		
N P			
0.0 100.0			
Provides: prof. MVD	r. Juraj Koppel, DrSc., RNI	Dr. Štefan Číkoš, CSc.	
Date of last modifica	ation: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VKFZ/06			
Course type, scope a Course type: Lectur Recommended cour Per week: 4/2 Per Course method: pre Number of ECTS cr	re / Practice rse-load (hours): study period: 56 / 28 esent		
	ster/trimester of the cours	<u>se:</u>	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 0		
N P			
0.0			
Provides: prof. MVD	r. Juraj Koppel, DrSc., RNI	Dr. Štefan Číkoš, CSc.	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: Dek. PF UPJŠ/JSD/14	Course ID: Dek. PF Course name: Spring School for PhD Students UPJŠ/JSD/14		
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: 4d esent		
Number of ECTS cr			
	ster/trimester of the cours	Se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 154		
abs n			
100.0 0.0			
Provides: doc. RNDr	Marián Kireš, PhD.		
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ ZSP/04	Course ID: ÚCHV/ Course name: Study Stay Abroad SP/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS cr	edits: 2		
	ster/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 80		
abs n			
100.0 0.0			
Provides:		<u>'</u>	
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VBP/04	1		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 6		
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:			
Course assessment Total number of asse	ssed students: 300		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VPSV/04	ourse ID: ÚCHV/ Course name: Supervision of a Students Scientific Work PSV/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 c	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 73		
abs n			
100.0 0.0			
Provides:		•	
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ TBFC/04	ourse ID: ÚCHV/ Course name: Trends in Biophysical Chemistry BFC/04		
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent		
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Communications, che Biomimetic materials	f biological systems clogical systems cm ses cal systems of morphogenesis, signal transductions emotaxis cm methods and devices		
Voet,D. Voet,J.G. Bio	el,P.R Biophysical Chemistry, W.H. Freeman and Co., S. Francisco,1980 ochemistry, John Willey @Sons, 1990 W. Curtis Johnson, P. Shing Ho: Principles of Physical Biochemistry,		
Course language:			

Notes:

Course assessment		
Total number of assessed students: 31		
N P		
0.0	100.0	
Provides: prof. Ing. Marián Antalík, DrSc.		
Date of last modification: 03.05.2015		
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ PDS/18			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 0		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 6		
N P			
	0.0 100.0		
Provides:			
Date of last modifica	tion:		
Approved:			