



CasProt Summer School program

Kosice
27.06 – 07.06.2022

Monday | June 27, 2022

Seminar room LIDA, Jesenna 5

09:30 – 10:00

Welcome/instructions/organization

Chairman: Assoc. prof. RNDr. Gabriel Zoldak, PhD.

10:00 – 10:30

Assoc. prof. RNDr. Erik Sedlak, DrSc. (Pavol Jozef Safarik University in Kosice)
Analysis of protein thermal transitions

11:00 – 11:30

Assoc. prof. RNDr. Gabriel Zoldak, PhD. (Pavol Jozef Safarik University in Kosice)
Protein stability and folding

12:00 – 14:00

lunch break

Chairman: RNDr. Michal Nemergut, PhD.

14:00 – 14:30

Assoc. prof. RNDr. Rastislav Varhac, PhD. (Pavol Jozef Safarik University in Kosice)
Real-time monitoring of enzyme-catalysed reaction: glucose oxidase as an example

15:00 – 15:30

One-Sun Lee, PhD. (Pavol Jozef Safarik University in Kosice)
The Inhibition of Amyloid Fibril Formation of Hen Lysozyme: A Molecular Dynamics Simulation Study

16:00 – 16:30

RNDr. Michal Nemergut, PhD. (Pavol Jozef Safarik University in Kosice)
Role of protein aggregation in Alzheimer's disease

Tuesday | June 28, 2022

Seminar room LIDA, Jesenna 5

Chairman: Assoc. prof. RNDr. Rastislav Varhac, PhD.

09:00 – 09:30

Ing. Radovan Dvorsky, PhD. (Pavol Jozef Safarik University in Kosice)
What's up with those multi-domain proteins?

10:00 – 10:30

RNDr. Veronika Dzurillova (Pavol Jozef Safarik University in Kosice)
Protein evolution in a test tube: the case of haloalkane dehalogenases

11:00 – 11:30	Magdalena Harakalova, MD, PhD. (University Medical Center Utrecht) <i>The translational aspects of impaired protein stability and folding in genetic cardiomyopathies</i>
12:00 – 14:00	lunch break <i>Chairman: Assoc. prof. RNDr. Rastislav Varhac, PhD.</i>
14:00 – 14:30	RNDr. Veronika Dzupponova (Pavol Jozef Safarik University in Kosice) <i>Methods and techniques used for study of protein folding and stability demonstrated on pathologic human IgG light chain</i>
15:00 – 15:30	RNDr. Zuzana Bednarikova, PhD. (Slovak academy of sciences) <i>Amyloid aggregation of proteins</i>
16:00 – 16:30	Abhigyan Sengupta, PhD. (Technical University of Munich) <i>Ultrashort transition path time of a bacteriophage protein gpW reveals primary sequence-dependent protein (un)folding</i>

Wednesday | June 29, 2022

09:00 – 16:00	1st group: Department of Biochemistry, Moyzesova 11, RBL foyer Experiment: Fluorescence & Circular Dichroism Supervisor: Assoc. prof. RNDr. Rastislav Varhac, PhD.
	2nd group: Center for Interdisciplinary Biosciences, Trieda SNP 1, 8 th floor MediPark Experiment: Microscopy aggregates Supervisor: RNDr. Veronika Dzupponova

Thursday | June 30, 2022

09:00 – 16:00	1st group: Department of Biochemistry, Moyzesova 11, RBL foyer Experiment: Enzyme activity Supervisor: Assoc. prof. RNDr. Rastislav Varhac, PhD.
	2nd group: Center for Interdisciplinary Biosciences, Trieda SNP 1, 8 th floor MediPark Experiment: Turbidimetry, Insulin aggregation Supervisor: RNDr. Viktoria Masatova

Friday | July 01, 2022

09:00 – 16:00 **1st group:** Center for Interdisciplinary Biosciences, Trieda SNP 1, 8th floor Medipark
Experiment: Microscopy aggregates
Supervisor: RNDr. Veronika Dzupponova

2nd group: Department of Biochemistry, Moyzesova 11, RBL foyer
Experiment: Fluorescence & Circular Dichroism
Supervisor: Assoc. prof. RNDr. Rastislav Varhac, PhD.

Monday | July 04, 2022

09:00 – 16:00 **1st group:** Center for Interdisciplinary Biosciences, Trieda SNP 1, 8th floor MediPark
Experiment: Turbidimetry, Insulin aggregation
Supervisor: RNDr. Viktoria Masatova

2nd group: Department of Biochemistry, Moyzesova 11, RBL foyer
Experiment: Enzyme activity
Supervisor: Assoc. prof. RNDr. Rastislav Varhac, PhD.

Tuesday | July 05, 2022

National holiday

Wednesday | July 06, 2022

10:00 – 12:00 **1st group:** Center for Interdisciplinary Biosciences, Trieda SNP 1, 8th floor MediPa
Experiment: theoretical analysis using KNIME
Supervisor: RNDr. Michal Gala

12:00 – 14:00 lunch break

14:00 – 16:00 **2nd group:** Center for Interdisciplinary Biosciences, Trieda SNP 1, 8th floor MediPa
Experiment: theoretical analysis using KNIME
Supervisor: RNDr. Michal Gala

Thursday | July 07, 2022

Seminar room LIDA, Jesenna 5

09:00 – 10:30 **1st group:** results presentation

10:30 – 12:00 **2nd group:** results presentation

12:00 – 14:00 lunch break

14:00 **End of Summer School 2022**

Groups:

	1st group
1	Stefana Njemoga
2	Henrieta Havalová
3	Flóra Sedlárová
4	Michaela Salaková
5	Barbora Borovská
6	Ivan Bukhun

	2nd group
1	Miroslav Kurka
2	Erik Wetter
3	Barbara Havrišová
4	Zuzana Voskárová
5	Martina Čižmáriková