



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

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, 8th floor MediPark
Experiment: Microscopy aggregates
Supervisor: RNDr. Veronika Dzuipponova

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, 8th 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 Dzuptionova

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