Curriculum Vitae

PERSONAL INFORMATION

Zuzana BEDNÁRIKOVÁ, PhD.

Pudapeštianska 5, 040 13 Košice, Slovakia

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<u>bednarikova@saske.sk</u>

Date of birth 14/05/1988

Sex Female

Nationality Slovakia



WORK EXPERIENCE

2021 - present

Senior scientist

Department of Biophysics, Institute of Experimental Physics Slovak Academy of Sciences (IEP SAS)

• preparation and realization of experiments, data analysis, writing scientific manuscripts and projects

Scope of interest: amyloid aggregation of intrinsically disordered proteins, amyloidodses treatment options

2017 - 2020

SAV post doc fellowship "Štefan Schwarz support fund"

Department of Biophysics, Institute of Experimental Physics Slovak Academy of Sciences (IEP SAS)

• preparation and realization of experiments, analysis of data and preparation of scientific manuscripts

Scope of interest: amyloid aggregation of proteins, anti-amyloid low molecular compounds

2012 - 2018

Research assistant

Department of Biophysics, Institute of Experimental Physics Slovak Academy of Sciences

• preparation and realization of experiments, analysis of data and preparation of scientific manuscripts

Business or sector science and education

EDUCATION AND TRAINING

2016 Philosophiae doctor (PhD.) degree in Biochemistry

Faculty of Sciences, Pavol Jozef Šafárik University in Košice, Slovakia

• dissertation thesis: Inhibitors of amyloid self-assembly of proteins

2014 Renum Naturalium Doctor (RNDr.) degree in Biochemistry

Faculty of Sciences, Pavol Jozef Šafárik Úniversity in Košice, Slovakia

2012 - 2016 PhD. studies in Biochemistry

Department of Biochemistry, Faculty of Sciences, Pavol Jozef Šafárik University in Košice, Slovakia

2007 - 2012 Master degree studies

Faculty of Sciences, Pavol Jozef Šafárik University in Košice, Slovakia

• diploma thesis: Amyloid aggregation of proteins in presence of magnetic nanoparticles

PERSONAL SKILLS Mother tongue(s) Other language(s)

Slovak language

UNDERSTANDING		SPEAKING		WRITING		
Listening	Reading	Spoken interaction	Spoken production			
C1	C1	C1	B2	B2		
Replace with name of language certificate. Enter level if known.						
A2	A2	A1	A1	A1		
Replace with name of language certificate. Enter level if known.						

English

German

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Common European Framework of Reference for Languages

Communication skills

 good communication skills gained through my experience as research assistant at the Department of Biophysics IEP SAS and basketball coach

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Organisational / managerial skills

- leadership supervisor of 3 Bachelor and 2 Diploma theses
- leadership currently responsible for a basketball team of 20 girls under age of 13 years
- principal investigator University grant VVGS UPJS 2013-2014
- member of organizing committee of International Conference Structure and Stability of Biomacromolecules 2013, 2015, 2017 and 2019 held in Košice, Slovakia
- participant Night of Researchers in Košice 2013, 2014, 2015, 2016, 2019

Job-related skills

experimental techniques used for study of amyloid properties of proteins

• work skills and expertise of cell cultures handling and cytotoxicity assessment

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Proficient user	Independent user

Levels: Basic user - Independent user - Proficient user

good command of office suite (word processor, spread sheet, presentation software)

ADDITIONAL INFORMATION

Publications

TOTAL NUMBER of PUBLICATIONS: 44 (Scopus)

H- index: 14 (without self-citations)

Projects

Running National projects:

VEGA - UNRAVELING THE EARLY EVENTS OF PROTEIN AMYLOID AGGREGATION - FROM MECHANISM TO THERAPY (2021 – 2024), investigator

APVV - MULTIHIT - MULTI-TARGET INHIBITORS OF POLY/PEPTIDES ASSOCIATED WITH ALZHEIMER'S DISEASE (2019 – 2023), investigator

Running International projects:

MAD SAS – PAS: AZOBENZENES AS POTENTIAL ALZHEIMER'S THERAPEUTICS (2023 – 2024), Pl: Zuzana Bednáriková

COST action CA21160: NON-GLOBULAR PROTEINS IN THE ERA OF MACHINE LEARNING (2022 - 2026), vice-chair of the Action

Honours and awards

- 2022: Young Scientist of the SAS Award winner
 Research team award: SAS Award for the results of scientific research
- 2021: Young Scientist of the IEP SAS Award winner
 Podcast for kids about science: Science Bedtime Stories about Alzheimer's disease
- 2020: research team award: Best international cooperation result of IEP SAS
- 2019: Scientific team of the year awarded by Ministry of Education, Science, Research and Sport
 of the Slovak Republic
- 2018: Young Researcher up to 35 years awarded by Slovak Biophysical Society
- 2017: Young Scientist Award 10th international conference Structure and Stability of Biomacromolecules (SSB 2017)
- 2016: Young scientific researcher up to 35 years at the IEP SAS Award winner
- 2015: Biophysical Journal Outstanding Poster Award International Conference "Polymers and Self-Assembly: From Biology to Nanomaterials", held in October 2015 in Rio de Janeiro (Brazil)
- Young Scientist of the IEP SAS Award 2nd place
- 2014: Poster Award Slovak Biophysical Congress held in Martin (Slovakia)
- several travel bursaries:
- EBSA Travel Bursary in 2015, 2013, 2017, 2019, 2021 participation on 9th,10th, 11th, 12th and 13th EBSA European Biophysical Congress
- Young Scientist Travel Award in 2014 participation on 18th International Biophysical Congress (IUPAB) held in Brisbane (Australia)

Short term fellowships:

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- Winter School on Disorder in Disorders Pathogenic mechanisms of Intrinsically Disordered Proteins, Brixen, Italy (2020)
- Winter School on Experimental Methods for Protein Disorders and Aggregation, Marseille, France (2017)
- CNR- ISMN Institute for Nanostructured Materials Studies, Bologna, Italy (2015, 2016), 3 weeks
- Biophysics Department, UMF "Carol Davila" Bucharest, Romania (2014, 2015), 2 weeks
- Summer school in Joint Institute for Nuclear Research, Dubna, Russia (2014), 3 weeks

Invited lectures/ talks

2022: CasProt Summer School Košice, Slovakia: Amyloid aggregation of proteins

13th AFOB Regional Symposium, Kinmen County, Taiwan: Protein amyloid fibrils bionanotechnology and biological significance

2019: School of Pharmacy, East China University of Science and Technology: A novel approach for treatment of Alzheimer disease

2018: 4th NGP-Net symposium, Druskininkai, Lithuania: Effect of curcumin derivatives on A β 40 fibrils (poster selected as flash oral presentation)

Memberships

- member of Slovak Biophysical Society, European Biophysical Society, COST consortium – action BM 1405 Non-globular proteins in molecular physiopathology, action CA11620 ML4NGP Non-globular proteins in the era of machine learning

Citations TOTAL NUMBER of CITATIONS: 443

In Košice, Slovakia, 7/2/2023

Zuzana Bednáriková, PhD