

Curriculum vitae

PERSONAL DATA:

Name: **Jana Gaburjakova**

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EDUCATION:

1996 M.Sc. in Biophysics and Molecular Physics, Comenius University, Faculty of Mathematics and Physics, Bratislava, Slovak Republic

2003 Ph.D. in Biophysics, Comenius University, Faculty of Mathematics, Physics and Informatics, Bratislava, Slovak Republic

WORK EXPERIENCES:

2006 – present: Senior Research Fellow (IIa), Centre of BioSciences SAS, Institute of Molecular Physiology and Genetics, Bratislava, Slovak Republic

2002 – 2005: Research Scientist, Institute of Molecular Physiology and Genetics SAS, Laboratory of Intracellular Ion Channels, Bratislava, Slovak Republic

1999 – 2002: Scholarship, Columbia University, College of Physicians & Surgeons, Center for Molecular Cardiology, Lab of prof. A.R. Marks, MD., New York, NY, USA

1996 – 1999: Graduate Student, Laboratory of Intracellular Ion Channel, Institute of Molecular Physiology and Genetics SAS, Bratislava, Slovak Republic

SUPPORT:

Running projects:

2021 - 2024: VEGA No. 2/0018/21: “The role of protein-protein interactions in regulation of the cardiac ryanodine receptor“- Principal Investigator

Participation in the other scientific projects:

2020 – 2024: APVV-19-0435: “Novel antidepressant therapy - long term consequences on offspring”. Principal Investigator: Prof. RNDr. Lubica Lacinová, DSc.

2021 – 2025: APVV-20-0202: “Activation of the VGF/BDNF/TrkB pathway by synthetic mRNA encapsulated in polyplex nanoparticles: effects on neural excitability, neuroplasticity and animal behavior”. Principal Investigator: MMedSc. Dremencov Eliyahu, DSc.

2022 – 2026: APVV-21-0473: “Mutations associated with wolfram syndrome: alternative signaling pathways for calcium and mitochondrial physiology”. Principal Investigator: RNDr. Michal Cagalinec, PhD.

2020 – 2023: VEGA No:2/0008/20: “Regulation of ryanodine receptor from rat brain under pathological and physiological condition” Principal Investigator: Mgr. Marta Gaburjaková, PhD.

Published papers: 25

Number of citations (without self-citation): 1027

HONORS and AWARDS:

- 2002:** the 3rd prize in Poster session, 5th Czech-French-Slovak Symposium, New Frontiers in Basic Cardiovascular Research, 2002, Smolenice, Slovak Republic
- 2003 - 2006:** Postdoctoral Scholarship from the Stefan Schwarz Foundation of the Slovak Academy of Sciences, Bratislava, Slovak Republic

TEACHING:

- 2015 - present:** Faculty of Pharmacy, Comenius University, Bratislava, Slovak Republic: Master Degree Program, individual lecture: "Selected chapters in Biophysics - Ion channels"
- 2016 - present:** Faculty of Natural Sciences, Comenius University, Bratislava, Slovak Republic: Master Degree Program - Physical Chemistry, individual lectures: "Ion channels and their biophysical properties" and "Experimental techniques and methods for investigation of ion channels"
- 2018 - 2022:** Faculty of Natural Sciences, Comenius University, Bratislava, Slovak Republic: Bachelor's Degree Program - Medical Biology, individual lecture: "Ions channels and their properties"

TECHNICAL SKILLS:

Ion channel reconstitution in planar lipid bilayer, isolation of cell membrane fractions from mammalian muscle tissues (rat, mouse, dog, human) and HEK293 cells, Dot Blot and Western Blot techniques, stereological (morphometric) analysis of 2D- electron microscope images, bioinformatics analysis of proteins, skill in writing research proposals and scientific papers

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

- 2005 - present:** Slovak Biophysical Society (a member of EBSA)
- 2019 - present:** The European Calcium Society

MEMBERSHIP IN SCIENTIFIC BOARDS:

- 2015 - March 2017:** Secretary of the Scientific Board of the Institute of Molecular Physiology and Genetics
- 2022 - present:** Head of the Scientific board of Institute of Molecular Physiology and Genetics, Centre of BioSciences SAS

MEMBERSHIP IN EDITORIAL BOARDS:

- 2015 - present:** Editor in General Physiology and Biophysics (*Gen. Phys. Biophys.*)

in Bratislava, February 1, 2023