

CURRICULUM VITAE

Name: **MSc. Zuzana Nichtová, PhD.**
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EDUCATION

2011 – 2015	PhD study – Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University, Bratislava, Slovakia Dissertation thesis: The variability of microdomains in plasma membrane of cardiac myocytes induced by isoproterenol.
2009-2011	Master's degree – Physiology, Department of Animal Physiology and Ethology, Faculty of Natural Sciences, Comenius University Diploma Thesis: The cytoarchitectural remodeling of rat's myocardium induced by application of isoproterenol, the effect of carvedilol
2006-2009	Bachelor study: Biology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia Bachelor thesis: The remodeling of cytoarchitecture of the rats myocard under the influence of isoprenaline application
2002-2006	Grammar school Párovská 1, Nitra, Slovakia
1993-2002	Elementary school Benkova 17, Nitra, Slovakia

WORK EXPERIENCE

2011 - 2015	PhD. student at the Comenius University, Faculty of Pharmacy, Department of Pharmacology and Toxicology, Bratislava, Slovakia
2011 - 2015	Researcher at The Slovak Academy of Science, Institute of Molecular Physiology and Genetics, Bratislava, Slovakia

LANGUAGE EXPERIENCE

Slovak language -	native speaker
English language -	advanced
German language -	intermediate

PC EXPERIENCE

Microsoft Word -	advanced
Microsoft Excel -	advanced
Microsoft PowerPoint -	advanced
Microsoft Outlook -	advanced
AdobePhotoshop -	intermediate

Programs for the collection and processing of biological data

Graphic Cell Analyzer (quantitative analysis of cell ultrastructure) -	advanced
Gatan Digital Micrograph -	advanced
Software Alignment Jeol 1200Ex -	advanced
INCA software -	basic
EELS software -	basic
LabChart software ADInstruments -	advanced
Scope Pro Windows -	advanced
Seiva Veterinary Praktik -	advanced

WORK SKILLS

Design of experiment
Isolation of heart and other tissue
Fixation of cells and tissues for transmission electron microscopy (TEM)
Preparation of ultrathin sections for TEM (work with ultramicrotome, contrasting of sections for TEM)
Adjustment of TEM
Work with TEM and analysis of biological samples
Analysis of ultrastructure of cells using by software GCA (volume and surface of cells)
Basics of scanning electron microscopy (SEM) and scanning transmission electron microscopy (STEM)
Measurement of animal blood pressure
Recording of animal ECG and its analysis
Recording of electrical features - isolated hearts and analysis

PROPERTIES AND INTERESTS

Communication skills, responsibility, pleasant demeanor, flexibility, endurance, willingness to learn new things, curiosity, conflict-free, purposefulness, traveling, reading books, photography, swimming, hiking, squash, history, running, yoga

DRIVING LICENCE B

OTHERS

Educational activities

- Supervision of Bachelor thesis – Andrea Foglova (2013): The ultrastructure of plasma membrane of mammalian muscle cells and functions of its subunit
- Participation in supervision of Diploma Thesis Andrea Foglová (2015): The effect of streptozotocin on membraneous system of papillary muscle of heart's cells
- Education – Anatomy and Physiology seminars, Pathology seminars

Grants

- Grant of Comenius University UK/405/2015: The effect of streptozotocin on function and ultrastructure of rat's cardiac myocytes
Principal Investigator: Zuzana Nichtová
- Grant of Faculty of Pharmacy Comenius University FaF UK 17/2014: Correlation of electrical activity and dynamic of the plasma membrane of rat's cardiac muscle cells after physiological and pathophysiological load
Principal Investigator: Zuzana Nichtová
- Grant of Faculty of Pharmacy Comenius University FaF 29/2013: The remodeling of rat's heart cells induced by increased heart workload and the changes of electrical activity of myocard
Principal Investigator: Zuzana Nichtová
- Grant of Comenius University UK/442/2012: Electrical activity and ultrastructure of cardiac myocytes sarcolemma
Principal Investigator: Zuzana Nichtová

Participation in grants

- APVV-0721-10 Principal Investigator: Ing. A. Zahradníková, DrSc.
- VEGA 2/0110/15 Principal Investigator: RNDr. M. Novotová, CSc.
- VEGA 1/1342/12 Principal Investigator: doc. MUDr. T. Stankovičová, CSc
- VEGA 2/0116/12 Principal Investigator - RNDr. M. Novotová, CSc.
- VEGA 2/0116/12 Principal Investigator - RNDr. M. Novotová, CSc.

Popularization of Science

- Active participation in events Researchers' Night 2014 in Bratislava, Slovakia

Awards

- Young Investigator Award New Frontiers in Cardiovascular Research Smolenice 15.-18. June 2014: Nichtová Z, Novotova M, Zahradnik I - Dominant microdomains of plasma membrane of cardiac myocytes