

Personal Information

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Nationality Czech
Date of Birth 26. 10. 1984
Sex male

Education

Degree Ph.D.
Period September 2009 - May 2013
Institution / Location [Institute of Chemical Technology](#) / Prague, Czech Republic
Thesis Expression of enterotoxin genes in *Staphylococcus aureus*
Degree Ing.
Period September 2007 – June 2009
Institution [Institute of Chemical Technology](#) / Prague, Czech Republic
Thesis Detection of enterotoxinogenic strains *Staphylococcus aureus* in food and characterization of their phenotype and genotype
Degree Bc.
Period September 2004 – June 2007
Institution [Institute of Chemical Technology](#) / Prague, Czech Republic
Thesis Genetically modified microorganisms and their use in the pharmaceutical industry

Awards

Bachelor and Master Degree with honors. In 2012 received Votočkovovo stipendium - the highest award for outstanding Ph.D. students at the Institute of Chemical Technology in Prague.

Research Positions

Position Researcher
Institution [Institute of Biotechnology AS CR](#), [Laboratory of Gene Expression](#)
Period / Location February 2013 – Present / Prague, Czech Republic
Description

- Neurobiology and glial cell biology
- Acute and neurodegenerative disorders
- Gene expression analysis using RNA-Seq and RT-qPCR
- Single-cell gene expression profiling
- miRNA analysis
- Data processing and statistical analysis
- Lecturing, training activities

Position Research Fellowship
Institution [TATAA Biocenter](#)
Period / Location June 2014 – August 2014 / Gothenburg, Sweden
Description

- Product development (miRNA detection)
- Lecturing, training activities

Position	Research Fellowship
Institution	Department of Veterinary and Animal Sciences , University of Copenhagen
Period / Location	March 2010 – July 2010 / Copenhagen, Denmark
Description	- Preparation of genetic modified microorganisms - Regulation studies in <i>Staphylococcus aureus</i>
Position	Ph.D. Candidate
Institution	Institute of Chemical Technology , Laboratory of Food Microbiology
Period / Location	September 2009 – January 2013 / Prague, Czech Republic
Description	- Specialist in <i>Staphylococcus aureus</i> and RT-qPCR - Graduate students training, organization of PCR courses
Memberships	Member of Federation of European Neuroscience Societies , Czech Neuroscience Society and RNA Society Board member of Bioinformatics doctoral programme (UCT Prague)
Total number of publications	24 (December 2021, WoS)
Total number of citations	453 (December 2021, WoS)
H-index	12 (December 2021, WoS)
Selected publications	<ul style="list-style-type: none"> • Androvic P, Kirdajova D, Tureckova J, Zucha D, Rohlova E, Abaffy P, Kriska J, Valny M, Anderova M, Kubista M, Valihrach L. Decoding the Transcriptional Response to Ischemic Stroke in Young and Aged Mouse Brain. Cell Rep. 2020 Jun 16;31(11):107777. doi: 10.1016/j.celrep.2020.107777. IF = 9.423. • Zucha D, Androvic P, Kubista M, Valihrach L. Performance Comparison of Reverse Transcriptases for Single-Cell Studies. Clin Chem. 2020 Jan 1;66(1):217-228. doi: 10.1373/clinchem.2019.307835. IF = 8.327. • Valihrach L, Androvic P, Kubista M. Circulating miRNA analysis for cancer diagnostics and therapy. Mol Aspects Med. 2020 Apr;72:100825. doi: 10.1016/j.mam.2019.10.002. IF = 14.235. • Androvic P, Valihrach L, Elling J, Sjoback R, Kubista M. Two-tailed RT-qPCR: a novel method for highly accurate miRNA quantification. Nucleic Acids Res. 2017 Sep 6;45(15):e144. doi: 10.1093/nar/gkx588. IF = 11.147.
Grants	GACR 19-02046S , 16-10214S and NU21-08-00286 - co-applicant EJPRD19-256 , GACR 22-10660S, 20-05770S , 18-21942S , 17-04034S and 13-02154S - team-member* (*key worker, responsible for grant management, results, reporting)
Students	supervising 4 PhD students, 1 postdoc student 1 PhD thesis, 3 MSc theses, 1 Bc thesis defended
Technology Development	Two-tailed RT-qPCR RT-qPCR system for miRNA quantification (WO2016027162A3). Developed in collaboration with TATAA Biocenter , licensed to Roche and BioVendor .
Invited Lectures	7th Gene Quantification Event qPCR dPCR & NGS 2017 , Single Cell Europe Conference 2018 , 7th European Stroke Conference - ESOC 2021 , 3rd International Symposium on Microgenomics 2021 , 10th Gene Quantification Event qPCR dPCR & NGS 2022
Media	vzacni.cz , idnes.cz , studio6 , nature.com , tyden.cz , chemagazin.cz