

PERSONAL DATA: **Martin Kolísek**



Sex: Male | Date of birth: | Nationality: Slovak (Slovak republic)

WORK EXPERIENCE:

31. 01. 2019 – until present: **Senior Scientist / Head of Laboratory / Associate professor**
 Laboratory of Proteomics and Mitochondriopathis, Biomedical Center Martin, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia
- Research and science
 - Teaching Slovak and foreign students in the 1. and 2. grade of the study program Medicine and Dentistry Chemistry and Medical biochemistry; Institute of Medical Biochemistry, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; preparation of seminars, practical training, lectures, study material, supervising of diploma and PhD. students
 - Teaching of Advances in Molecular Biology 2 for students of the first grade of MSc. Program at the Department of Molecular Biology at the Faculty of Natural Sciences at Comenius University in Bratislava, Bratislava, Slovakia)
08. 2016 – 01. 2019 **Senior Scientist / Head of Laboratory**
 Department of Neurosciences, Biomedical Center Martin, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia
- Research and science
 - Teaching Slovak and foreign students in the 1. and 2. grade of the study program Medicine and Dentistry Chemistry and Medical biochemistry; Institute of Medical Biochemistry, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; preparation of seminars, practical training, lectures, study material, supervising of diploma and PhD. students
05. 2005 – 08. 2016 **Senior Scientist / Head of Laboratory**
 Institute of Veterinary Physiology, Faculty of Veterinary Medicine and Dahlem Research School, Freie Universität Berlin, Berlin, Germany
- Research and science, leading research group „Magnesium Transport AG”
 - Teaching following subjects: Physiology (Thermoregulation I/II, Stress/HPA axes); Pathophysiology of *diabetes mellitus*; Physiology / Practical Courses (Respiration, Blood and Circulation, Cardiovascular System / EKG, Skeletal Muscle, Action Potential Transduction); Selected Courses in Physiology (Experimental Molecular Physiology)
12. 2002 – 04. 2005 **Junior Scientist / Postdoc**
 The Queen's Medical Center, Laboratory of Cell and Molecular Signaling at QMC/QCBB, John Burn's School of Medicine, University of Hawai'i / Manoa Campus, Honolulu, USA
- Research and science
- 07.1999 – 11. 2002 **Research Assistant / Doctoral Student**
 Max F. Perutz Laboratories – Vienna Biocenter, Department of Genetics and Microbiology,

Vienna University, Vienna, Austria

- Research and science
- Teaching practical courses: Genetics I / Genetics II

EDUCATION:

31. 01. 2019 **Assoc. Professor (Doc.), scientific and educational title awarded in the field of Medical, clinical, and pharmaceutical biochemistry**
Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia
- 1999 – 2002 **Dr.rer.nat. (PhD.) in Genetics**
Max F. Perutz Laboratories, Department of Genetics and Microbiology, Vienna University, Vienna, Austria

Supervisor: Prof. Rudolf J. Schweyen Dr.rer.nat.
- 2001 **RNDr. in Biotechnology**
Department of Molecular Biology at the Faculty of Natural Sciences at Comenius University in Bratislava, Bratislava, Slovakia

Supervisor: Prof. RNDr. Ján Turňa CSc.
- 1994 – 1999 **MSc. in Molecular biology**
Department of Molecular Biology at the Faculty of Natural Sciences at Comenius University in Bratislava, Bratislava, Slovakia

Supervisor: Prof. RNDr. Ján Turňa CSc.
- 1995 – 1998 **Certified International Tempus-Phare project S-JEP-09101-95 “New Curriculum in Chiral Chemistry”**
Department of Organic Chemistry, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia and & King's College London, Chelsea Department of Pharmacy, London, UK)

Supervisor: Assoc. prof. RNDr. Marta Sališová CSc. and Prof. Dr.pharm. Andrew J. Hutt PhD.

PERSONAL SKILLS:

Native language Slovak

Other languages	UNDERSTANDING		SPEAKING SKILLS		WRITING
	Listening	Reading	Oral interaction	Independent speaking (Monologue)	
English	C2	C2	C2	C2	C2
German	C1	B2	B2	B1	B1
Russian	C1	C1	B2	B2	B2

Levels: A1/A2: Basic skills- B1/B2: Advanced skills - C1/C2: Proficient, excellent skills

Communication skills:

- excellent communication and management skills acquired as head of the research group "Magnesium Transport RG" and head of the "Molecular Physiology Laboratory" at the Institute of Veterinary Physiology Analysis, Faculty of Veterinary Medicine and Dahlem Research School, Freie Universität Berlin, Berlin, Germany

Managing skills:

- Laboratory and research group leading
- Supervision and tutoring of MSc. and PhD. students

I have been an external examiner of the following PhD. candidates:

Dr. Michael Aichinger / Vienna Biocenter, Vienna, Austria; Dr. Markus Aleschko / Vienna Biocenter, Vienna, Austria; Dr. Ludmila Zotova / Vienna Biocenter, Vienna, Austria; Dr. Soňa Svidova / Vienna Biocenter, Vienna, Austria; Dr. Lucia Merolle / University of Bologna, Bologna, Italy; Dr. Andrea Zaniboni / University of Bologna, Bologna, Italy; Dr. Benedetta Rizo / University of Bologna, Bologna, Italy; Dr. Federica Naso / University of Bologna, Bologna, Italy; Dr. Andrea Nuzzo / University of Bologna, Bologna, Italy; Dr. Ana Karine Martinez Ascanio / University of Bologna, Bologna, Italy; Dr. Serena Fraraccio / University of Bologna, Bologna, Italy; Dr. Giacomo Bucchi / University of Bologna, Bologna, Italy; Dr. Erika Bandini / University of Bologna, Bologna, Italy

I have been a tutor (supervisor) of the following PhD. candidates:

MSc. Marcel Brenkus / FU Berlin, Berlin, DE; MSc. Axel Nestler / FU Berlin, Berlin, Germany; Dr. vet. med. Katharina Kurth / FU Berlin, Berlin, DE; Dr. clin. biol. Lucia Mastrototaro / FU Berlin, Berlin, DE; MD Petra Parvanovova / Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; MSc. Andrea Izarik Verespejova / Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; MSc. Natalia Hunarova / Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; MD Alena Korencikova / Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; MSc. Li Shen Chien / Faculty of Natural Sciences, Comenius University in Bratislava, Bratislava, Slovakia

I have been a tutor of the following MSc. candidates:

Friederike Rolle-Ebner / Technical University Berlin, Berlin, DE; Saba Javaid / London Metropolitan University, London, UK; Nasrin Abdulhanan / Humboldt University, Berlin, DE; Filip Oravec / Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia; Martin Vatecha / Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia

I have been a tutor (supervisor) of the following guest students:

MSc. Alessandra Cazzaniga / University of Bologna, Bologna IT; Dr. Lucia Merolle / University of Bologna, Bologna Italy; MSc. Azzura Sargenti / University of Bologna, Bologna Italy; MSc. Federica Sola / University of Bologna, Bologna Italy; Dr. Marian Radu Lefter / University (of Iasi) Alexandru Ioan Cuza, Iasi, Romania; MSc. Manuel Paulet / University (of Iasi) Alexandru Ioan Cuza, Iasi, Romania; Dr. Carmen Bermudez-Peña / University of Granada, Granada, Spain

- Working skills**
- routine and advanced techniques of gene manipulations
 - routine and advanced techniques of molecular and transport physiology (electrophysiology); eg: patch clamp in different configurations, use of Ussing chambers, use of TEV, use of ion-selective electrodes, use of fluorophore-assisted FFW-spectrometry
 - routine work with HPLC
 - yeast genetics
 - quantitative and population human genetics
 - advanced techniques of fluorescent imaging
 - techniques of targeted metabolomics based on MS technology
 - various modalities of PCR and RT-qPCR
 - basic and advanced proteinological techniques (Western blotting, *blue-native* PAGE elektroseparatoration and fractionation)
 - advanced proteomics
 - mitochondrial manipulations and transfer

- Digital skills:**
- good knowledge of Windows and Mac OS X operation systems
 - good knowledge of Microsoft office
 - good knowledge of Adobe PhotoShop
 - good knowledge of Corel Draw, Origin
 - good knowledge of GraphPad Instant Inc., PDQuest, LabChart Data Pro Acquisition, IGOR, SigmaPlot 14.x. or newer

SUPPLEMENTARY INFORMATION:

Publications: Publication activity is recorded in various scientific databases: Medline, Sopus, Web of Science, Google Scholar and Research Gate.

Lectures: Primarily on the foreign scientific fora

- Granted scientific projects:**
1. DFG KO-3586/3-1 / German Research Foundation; 2008 - 10; app. 230,000.00 Eur; PI*
 2. DFG KO-3586/3-2 / German Research Foundation; 2011 - 14; app. 300,000.00 Eur; PI*
 3. BMBF MEX 09/001 / German Federal Ministry of Education and Research; 2009 - 10; 40,000.00 Eur, Co-PI*
 4. Industry Project Protina GmbH / Mineral Sensitive Genes; 2010 - 11; 150,000.00 Eur; PI*
 5. Industry Project Protina GmbH / Magnesium and Stress; 2015 - 16; 60,000.00 Eur; PI*
 6. Industry Project Protina GmbH / Role of IL-6 - STAT3 functional axis in induction of inflammatory Mg^{2+} insufficiency of the cells; 2015 - 16; 30,000.00 Eur; PI*
 7. Program of the government of Slovak republic "Return home" ("Návrat domov"); 2016 - 17; 131,000.00 Eur; PI*
 8. VEGA 1/0554/19 / The role of the STAT3 signaling pathway in the regulation of the promoter of the Na^+/Mg^{2+} exchanger SLC41A1: from inflammation to Parkinson's disease; 2019 - 21; 33,555.00 Eur; PI*
 9. APVV-19-0222 / Determination of mitochondrial fitness in diagnostics and prediction of Parkinson's disease; 2020 - 2024; 220,000.00 Eur; PI*
 10. I am or have been an investigator on the following projects VEGA 1/0277/18, APVV-16-0033 and APVV SK-KR-18-000

*PI = pricipal investigator; co-principal investigator

- Awards and achievements:
- 2015 / Award of German Magnesium Research Society, Fulda, DE
 - 2013 / Honorary Semester Opening Lecture at Dpt. of Physiology, School of Pharmacy, University of Granada, Granada, ES
 - 2013 / The Reviewer Panel Nominee at University of Bologna in recognition of expertise and scientific and cultural achievements, Bologna, IT
 - 2009 / Award of German Magnesium Research Society, Fulda, DE
 - 2002 / Award of German Magnesium Research Society, Fulda, DE
 - 2002 / Verla-Pharm Award at Gordon Research Conference, Ventura, USA
 - 2002 / Geist Award at Gordon Research Conference, Ventura, USA
 - 1999 / Dean's prize, Faculty of Natural Sciences at Comenius University in Bratislava, Bratislava, Slovakia
- Memberships in scientific societies:
- GMRS: German Magnesium Research Society; APS: American Physiological Society, SSBMB: Slovak Society of Biochemistry and Molecular Biology
- Editorial Boars:
- An editor in GPB (General Physiology and Biophysics); a guest editor v OMCL (Oxidative Medicine and Cellular Longevity), a "topic" editor in IJMS (International Journal of Molecular Sciences), an editor in Frontiers in Cell And Developmental Biology
- Review service for the following journals:
- American Journal of Physiology Cell Physiology; American Journal of Physiology Regulatory, Integrative and Comparative Physiology; PLOS One; PLOS Genetics; Kidney International; Hypertension in Pregnancy; Cellular & Molecular Biology Letters; Nature – Scientific Reports; European Cells and Materials Journal, Therapeutics and Clinical Risk Management, International Journal of Molecular Sciences, Pflügers Archiv European Journal of Physiology, iScience, Nutrients, Magnesium Research, etc.
- Review service for the following granting agencies:
- The Netherlands Organisation for Scientific Research; U.S. National Science Foundation; Austrian Science Fund FWF
- Organization of scientific events:
1. European Workshop on Magnesium in Translational Medicine; Smolenice; May 11 – 14 2014
<http://www.vetmed.fu-berlin.de/en/einrichtungen/institute/we02/eu-mg-workshop2014/index.html>
 2. International Workshop on Magnesium in Translational Medicine; Liptovský Mikuláš; Feb. 18 – 21 2016
<http://www.vetmed.fu-berlin.de/en/einrichtungen/institute/we02/eu-mg-workshop/index.html>
 3. Annual Meeting of German Magnesium Society in Bratislava; Bratislava, September 13 – 15 2023
<https://www.magnesium-ges.de/index.php/de/jahrestagung>

ORCID ID: <https://orcid.org/0000-0001-8962-4511>



For recommendation please contact:

(1) **Prof. Dr. Rhian Touyz, MBBCh MSc(Med.), PhD.**; BHF GCRC, 126 University Place, Glasgow, G12 8TA, UK; e-mail: Rhian.Touyz@glasgow.ac.uk; Tel: +44-(0)141-330-7775

(2) **Prof. Andrea Fleig MSc, MBA, PhD.**; John A. Burns School of Medicine, The Queen's Medical Center, 1356 Lusitana St, UHT 619, Honolulu HI 96813, USA; e-mail: afleig@hawaii.edu; Tel: +1-808-691-4511

(3) **Prof. Dr.rer.nat. Jürgen Vorman;** IPEV, Adalperostrasse 37, 85737 Ismaning-München, DE; e-mail: vormann@ipev.de; Tel: +49-(0)89-5526-7989

(4) **Prof. Dr.med.vet. Jörg R. Aschenbach;** Inst. Of Veterinary-Physiology, Freie Universität Berlin, Oertzenweg 19b, 14163 Berlin, DE; e-mail: Joerg.Aschenbach@fu-berlin.de; Tel: +49-(0)30-838-62601

In Martin, 12. 11. 2023



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