

**Curriculum vitae**  
**RNDr. Karol Ondriaš, DrSc.**  
**8.7.2022**

**Name: RNDr. Karol Ondriaš, DrSc.**

**Address:** Institute of Clinical and Translational Research,  
SAS Biomedical Center  
Dúbravská cesta 9  
845 05 Bratislava  
Slovak republic  
Phone: 0908577943  
Email: karol.ondrias@savba.sk

**Educational attainment:**

1998: DrSc., Biophysics, Comenius University, Faculty of Mathematics and Physics, Bratislava,  
1985: PhD., Biophysics, Comenius University, Faculty of Mathematics and Physics, Bratislava,  
1984: RNDr., Biophysics and Chemical Physics, Comenius University, Faculty of Mathematics  
and Physics, Bratislava,  
1977: M.Sc., Biophysics and Molecular Physics, Comenius University, Faculty of Science,  
Bratislava,

**Scholarships and awards:**

2013: Prize of the Slovak Academy of Sciences, awarded to a scientific team for a set of  
scientific research works dealing with the modulation of selected metabolic pathways  
regulated by calcium in tumor cells  
2012: SAV medal for the support of science on the occasion of a life jubilee  
2008-now: Member of the Learned Society of the Slovak Academy of Sciences  
2002: Prize of the Literary Fund for scientific recognition in the category of natural sciences  
2002: Honorary plaque of Dionýz Štúr for merits in natural sciences awarded by the Slovak  
Academy of Sciences  
2002: 1998 and 1997: Monthly research stays, Columbia University, College of Physicians &  
Surgeons, Center for Molecular Cardiology, New York, USA  
1995-1996: Research assistant professor, The Mount Sinai Medical Center, Department of  
Molecular Medicine, New York, NY, USA  
1992-1996: Postdoctoral Fellowship, The Mount Sinai Medical Center, Department of Molecular  
Medicine, New York, NY, USA  
1988-1990: Postdoctoral Fellowship, University of Connecticut, Health Center, Department of  
Medicine, Farmington, CT, USA  
1979-1980: 7th International Course - selected biological areas, Szeged, Hungary, Study of the  
use of the electron paramagnetic resonance method in biology  
1977-1981: study stay, Slovak Academy of Sciences, Institute of Experimental Pharmacology,  
Bratislava, Slovak Republic

**International grants:**

FIRCA grant 2R03-TW00949-04A1; NIH USA (2002-2005): Coupled gating between  
intracellular calcium release channels" - collaboration with Prof. Andrew R. Marks,

M.D., Columbia University, New York, USA. RNDr. Karol Ondriaš, DrSc. :  
Responsible solver in Slovakia.

NATO grant LST.CLG979217; Brussels (2002-2004): Role of mitochondrial channels in cardioprotection - collaboration with prof. Adam Szewczyk, Institute of Experimental Biology, Warsaw, Poland. 2002-2004. RNDr. Karol Ondriaš, DrSc.:  
Responsible researcher in Slovakia.

FIRCA grant 1-RO3-TW00949-01; NIH USA (1998-2001): Regulation of calcium release channels (Regulation of calcium ion channels) - collaboration with prof. Andrew R. Marksom, M.D., Columbia University, New York, USA. RNDr. Karol Ondriaš, DrSc.: Responsible researcher in Slovakia.

### **National grants:**

APVV-19-0154 (2020-2024): Study of biological effects of products. H<sub>2</sub>S/NO/selenium interaction and molecular mechanisms of their action.

APVV-15-0371 (2016 – 2020): Study of biological effects of H<sub>2</sub>S/NO interaction products and molecular mechanisms of their action Responsible researcher: Karol Ondriaš

APVV-51-027404 (2005 – 2007): Signaling and transport functions of biological membranes under normal and pathological conditions. Responsible researcher: RNDr. Karol Ondriaš, DrSc.

APVV-51-01-013802 (2002-2005): Transport and signaling mechanisms of biological membranes under normal and pathological conditions. Responsible researcher: RNDr. Karol Ondriaš, DrSc.

BMBS COST Action BM1005 (2011-2015): Gas transmitters, from basic research to biological applications (ENOG: European Network on Gasotransmitters) Coordinator for SR: Karol Ondriaš

VEGA grants: number of 6. Responsible researcher: RNDr. Karol Ondriaš, DrSc.

### **Professional experience:**

2016-present: Head of the scientific team, Institute of Clinical and Translational Research, Biomedical Center SAS

2012-2016: Head of the Department of Cellular Physiology and Genetics at the Institute of Molecular Physiology and Genetics of the Slovak Academy of Sciences, Bratislava, Slovak Republic

1996-2011: Head of the Laboratory of Intracellular Ion Channels, Institute of Molecular Physiology and Genetics of the Slovak Academy of Sciences, Bratislava, Slovak Republic

1990-1996: Researcher, Slovak Academy of Sciences, Institute of Experimental Pharmacology, Bratislava, Slovak Republic

1977-1990: Study stay: Institute of Experimental Pharmacology SAS, Bratislava, Slovak Republic

### **Education of doctoral students with completed PhD studies:**

RNDr. Vladimír Mišík, PhD, 1988

Mgr. Marta Gaburjaková, PhD, 2000

Mgr. Jana Gaburjaková, PhD, 2003

RNDr. Alexandra Mojžišová, PhD, 2004

Mgr. Viera Komínková, PhD, 2007  
Mgr. Anton Mišák, PhD, 2014  
Mgr. Marián Grman, PhD, 2014

**Summary of publication activity:**

according to WOS, 13/06/2022:

h-index = 30

Number of publications (including published abstracts): 182

Number of citations (Without self citations): 3762

according to SCOPUS, 13/06/2022:

h-index = 29

Number of publications: 132

Number of citations (Without self citations of all authors): 3238