

**Curriculum vitae**  
**Olga Krizanova**  
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EDUCATION: **May 2015** – professor of the Medical chemistry and biochemistry, 1<sup>st</sup> Medical Faculty, Charles University, Prague, Czech Republic  
**June 2008** – associate professor of Pharmacology at the Jessenius Medical Faculty, Comenius University, Martin, Slovakia  
**September 2003** – D.Sc. of the Animal physiology  
**Jun 1999** – associate professor of molecular biology at the Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia  
**February 1989** - Ph.D. in the field of biochemistry - Slovak Academy of Sciences, Bratislava, Czechoslovakia  
**April 1983** - Graduate of Chemical engineering; specialization biochemistry - Slovak Technical University, Chemical Faculty, Department of Biochemistry, Bratislava, Czechoslovakia

EXPERIENCE: **June 2015 – present:** principal research investigator at the Biomedical Research Center SAS, Bratislava, Slovakia  
**June 2009 – May 2015:** director of the Institute of Molecular Physiology and Genetics, SAS  
**February 2006 – May 2009:** deputy director of the Institute of Molecular Physiology and Genetics, SAS  
**August 1993 – May 2015:** principal research investigator and a head of the Laboratory of Biochemistry of transport systems at Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences, Bratislava, Slovakia

**July 1992 - June 1993:** postdoctoral fellow at Department of Physiology, University of Baltimore, Maryland, USA, working in purification and characterization of renin from salt-sensitive and salt-resistant Dahl rats.

**January 1991 - June 1992:** postdoctoral fellow at Department of Pharmacology, University of Cincinnati, Ohio, USA, working in molecular biology of voltage-dependent calcium channels.

**February 1989 - December 1990:** research associate at Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences, Bratislava, Czechoslovakia; research interests: neuronal voltage-dependent calcium channels

**January 1986 - February 1989:** graduate student at Center of Physiological Sciences, Slovak Academy of Sciences, Bratislava, Czechoslovakia. Thesis: L-type of calcium channel in skeletal muscle.

**August 1983 - January 1986:** research student at Center of Physiological Sciences, Slovak Academy of Sciences, Bratislava, Czechoslovakia; working in modulation of calcium transport by phosphorylation and isolation and purification of calmodulin

**LECTURING:**

**2017 – up to now** – lecturing Biochemistry at the Faculty of Natural Sciences, University of SS. Cyril and Methodius, Trnava, Slovakia

**2009 – up to now** – lecturing Signaling systems of cells at the Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

**2003 – 2014:** - lecturing Medical biochemistry at Jessenius Medical Faculty, Comenius University, Martin

**1996 - 2009** - lecturing “Molecular biology of the hormonal regulations” at the Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

**1994 - 1995** - participating in lecturing “Systems of cell signaling”, Comenius University, Bratislava, Slovakia

**1989 and 1990** - teaching laboratory practice in biochemistry, Slovak Technical University, Bratislava, Czechoslovakia

**13 students successfully defended PhD.** under her supervision

**FELLOWSHIPS:**

**September –December 2003:** scientific visit at the University of Medicine, Creteil, Paris, France;

**July 1992 - June 1993:** postdoctoral fellow at Department of Physiology, University of Baltimore, Maryland, USA,

working in purification and characterization of renin from salt-sensitive and salt-resistant Dahl rats.

**January 1991 - June 1992:** postdoctoral fellow at Department of Pharmacology, University of Cincinnati, Ohio, USA, working in molecular biology of voltage-dependent calcium channels.

**November 1986 - May 1987:** Institute of Physiological Chemistry, University of Saarland, Federal Republic of Germany, Laboratory of Prof. Hofmann; (binding assays with azidopamil, reconstitution of membrane proteins into phospholipid vesicles)

**October 1985:** Physiol. Inst. Acad. Sci. USSR, Kyjev, Laboratory of Dr. Malysheva; (calcium transport into proteoliposomes)

#### AWARDS:

**2021 – 2025** – Grant APVV-20-0176 - Interactions of calcium transport systems in carcinogenesis

**2019 – 2021** - MZ2019/58-BMCSAV-2 – Role of hydrogen sulfide in remodeling of cytoskeleton in the cells of colorectal carcinoma; effect on taxane treatment

**2019 – up to now** - member of the Scientific board of the Faculty of Natural Sciences, Comenius University, Bratislava

**2017 – 2021** - Grant APVV-16-0246 – Utilization of the calcium transport blockers as potential chemotherapeutics in a treatment of solid tumors

**2017 – up to now** - member of the Scientific board of the Faculty of Natural Sciences, University of St. Cyril and Methodius, Trnava

**2016-2018** – Grant VEGA 2/0082/16 – Role of the calcium signaling through the IP<sub>3</sub> receptors in clear cell renal cell carcinoma

**2010** - bronze medal of the Faculty of Natural Science, Comenius University, Bratislava, Slovakia

**2010 - 2016** member of the Scientific board of the Medical Faculty, Comenius University, Bratislava

**2009** – external member of the Scientific board of the Institute of Virology SAS

**2008** – elected member of the US

**2008 – 2010:** Grant APVV-0397-07 – IP<sub>3</sub> receptors, their modulation and function in normal and pathological conditions.

**2007 – 2010:** Centre Of Excellence for Cardiovascular Research SAS, head of the team

**2006 – 2008:** Grant VEGA nr. 2/6078 - Molecular and functional aspects of the modulation of inositol 1,4,5-trisphosphate receptors in normal and pathological conditions.

**2005 – 2008:** head of the Scientific board of the Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences.

**2004 – 2006:** grant from Scientific Grant Agency of Ministry of Education of Slovak Republic and Slovak Academy of Sciences (VEGA), nr. 2/3008 - topic: Modulation of the sodium-calcium exchanger in the rat heart during development of the cardiovascular diseases. Effect of transcriptional and regulatory factors.

**2004** – award of the Minister of the Education of Slovak Republic for the science and development;

**2003** – Genomics of the cardiovascular diseases, grant nr. 51/0280800/0280802 – principal investigator

**1993-2001:** head of the Scientific board of the Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences.

**2000-2002:** grant from Scientific Grant Agency of Ministry of Education of Slovak Republic and Slovak Academy of Sciences (VEGA), nr. 2/7158 - topic: Studies in mutual interaction of angiotensin II, nitric oxide and intracellular calcium in the rat heart.

**1998** - by a contest selected for Scientia Europea 3

**1997 -1999:** grant from Scientific Grant Agency of Ministry of Education of Slovak Republic and Slovak Academy of Sciences (VEGA), nr. 2/4128 - topic: The role of Ca transport systems for calcium in the development of hypertension induced by the stress.

**1996-1998:** grant from Scientific Grant Agency of Ministry of Education of Slovak Republic and Slovak Academy of Sciences (VEGA), nr. 2/3011 - topic: The importance of angiotensinogen in the development of hypertension and its regulation by hypertension evoking stimuli.

**1990 - 1992:** grant from Slovak Grant Agency of Slovak Academy of Sciences; topic: Neuronal N-type calcium channels

HIRSCH INDEX: 27

PUBLICATIONS: 201

CITATIONS: 3320 according to the Web of Knowledge, 2930 without autocitations