

Prof. Eva S y k o v á, M.D., Ph.D., D.Sc.

Personal data: *Nationality:* Czech

Education: **M.D. (1970)** Medical Faculty of Charles University, Prague
Ph.D. (1976) Institute of Physiology, CAS, Prague
D.Sc. (1990) Masaryk University, Brno
Professor of Physiology (2000) Charles University, Prague

Research and academic positions:

1970-75 Doctoral training, Institute of Physiology, Academy of Sciences, Prague
1976-83 Postdoctoral researcher, Institute of Physiology, Academy of Sciences, Prague
1977 Visiting Research Fellow, Department of Physiology, University of Goteborg, Sweden
1983-90 Head, Laboratory of Neurohumoral Regulations, Institute of Physiological Regulations, Czechoslovak Academy of Sciences, Prague
1984 Visiting Professor, University of Heidelberg, Heidelberg, Germany
1985-86 Visiting Senior Research Fellow, University of Western Australia, Perth
1991- Head, Department of Neuroscience, Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Prague
1996- Chairman, Department of Neuroscience, 2nd Medical School, Charles University, Prague
2000- Chairman, Center for Cell Therapy and Tissue Repair, Charles University, Prague
2001- Director, Institute of Experimental Medicine ASCR, Prague, EU Center for Excellence MEDIPRA (Principal coordinator)

Awards for scientific work:

1976 and 1978 Awards of Czechoslovak Academy of Sciences
1982 Prize of Czechoslovak Academy of Sciences
1984 Prize of Czechoslovak Physiological Society
1992 Prize of Czech Medical Society of J.E. Purkyně
1993 Prize of Czech Neuroscience Society
1994 Prize of Czech Medical Society of J.E. Purkyně
1997 Prize of Czech Academy of Sciences
1997 Janssen-Cilag Award
1999 Elected member of Academia Europea
2000 Elected member of European DANA Alliance
2002 Elected member of European Academy of Sciences
2003 Purkynje Medal AS CR
2004 "Lady pro" Award
2004 Elected Fellow of Czech Medical Academy (FCMA)
2005 Jansen-Cilag Foundation award
2008 Medal of Jan Trápel
2009 Best publication in 2009 Czech Medical Society of J.E. Purkyně
2009 Honorary Membership of Czech Neuroscience Society
2009 Honorary Membership of Czech Medical Society of J.E. Purkyně

Publications:

A total of 720 publications including 173 full-length papers in peer-reviewed journals, 35 book chapters in English, author of 1 book, and editor of 4 books. Citation impact according to SCI - publications were cited more than 3018 times by other authors, 5410 including autocitations (Hirsch index is 40).

Organization of conferences and symposia:

Organizer or co-organizer of 20 international meetings. Organizer of 5 international teaching workshops.

Elected functions:

1993- National representative in European network "Function of Glial Cells"
2001- Director of the EU Centre of Excellence - MEDIPRA
2002- IBRO – member of Governing Council
2003- Chairperson of the Committee for Doctor in Science habilitation in Biomedicine
2005- Member of the Scientific Council of the Ministry of Health of the Czech Republic
2005- President of the Czech Neuroscience Society
2009- Chairperson of Section for Clinical Studies in Grant Agency of the Czech Republic

Member of editorial boards:

The Neuroscientist (Sage, USA), Neuroscience Letters (Elsevier, Amsterdam), Neuron-Glia Biology (Cambridge, Univ. Press, UK), Journal of Neuroscience Research (Wiley - Liss, USA), International Journal of Developmental Neuroscience (Elsevier).

Biography:

Professor Eva Syková, M.D., Ph.D, D.Sc., is the Director of the Institute of Experimental Medicine ASCR, an EU Centre of Excellence, and is the head of the Center for Cell Therapy and Tissue Repair at Charles University, Prague, Czech Republic. She has published 173 papers in peer-reviewed journals, 35 book chapters, is the author of 1 book and the co-editor of 4 books. Her publications have been cited more than 5410 times; her Hirsch index is 40. She is a co-holder of 5 patents. She has given more than 100 invited lectures and seminars at foreign universities and international conferences and has co-organized 14 international meetings and 4 teaching workshops. Among her scientific awards are the prizes of the Czech Physiological Society, the Czech Neuroscience Society, the Czech Medical Society, the Czech Academy of Sciences, and the Purkyně medal for her merit in biological sciences. She has been elected a member of Academia Europea, the Czech Medical Academy and the Russian Academy of Natural Sciences. She serves on the editorial boards of 6 international journals and as a member of the executive committees of a number of Czech and international scientific societies and boards. Since 2005 she has been the Chairman of the Czech Neuroscience Society.

Current scientific interests:

The current scientific interests of Professor Syková include both basic and clinical research, including the origins, mechanisms and maintenance of ionic and volume homeostasis in the CNS and the role of extrasynaptic transmission and glial cells in physiological and pathological states. She is particularly interested in the mechanisms and treatment of brain and spinal cord injury. She studies the migration and fate of embryonic and adult stem cells using MRI and iron-oxide nanoparticles and explores the use of hydrogels and nanofibers as tissue bridges and 3D stem cell carriers after CNS injury, as well as the differentiation and role of stem cells in the rescue and replacement of damaged tissue. Her ongoing clinical studies include patients with spinal cord injury, ALS and and ischemic legs.