

Katarína Šebeková, Assoc. Prof., MD, DSc.

Personal info:

Date of birth: 5.11.1955; Place of Birth: Bratislava, Czechoslovakia; Nationality: Slovak
Foreign languages: English, Russian, Hungarian

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Professional curriculum vitae

Education

1975-1981 MD, general medicine, Faculty of Medicine, Comenius University, Bratislava, Slovakia
1984-1989 PhD (biochemistry), 3rd Department of Internal Medicine, Faculty of Medicine,
Comenius University, Bratislava, Czechoslovakia
1990 Board certificate Clinical chemistry I, Institute for Postgradual Education of Physicians
and Pharmacists, Bratislava, Czechoslovakia
1996 Board certificate Clinical chemistry II, Institute for Postgradual Education of
Physicians and Pharmacists, Bratislava, Czechoslovakia
2005 Doctor of Sciences (pharmacology), Slovak Academy of Sciences, Bratislava, Slovakia
2005 Certified Method in Clinical testing of drugs, Slovak Medical University, Bratislava,
Slovakia
2008 WIPO Worldwide Academy: General Course on Intellectual Property (DL-101)
2010 Assoc. Prof., Internal Medicine, Slovak Medical University, Bratislava, Slovakia
2010 WIPO Worldwide Academy: Basics of Patent Drafting (DL320e)

Employment

1981-1982: 3rd Department of Internal Medicine, Faculty of Medicine, Comenius University,
Bratislava, Czechoslovakia
1984 – 1990: Research Institute of Medical Bionics, Department of Pharmacotherapy, Bratislava,
Czechoslovakia
1990 – 2003: Institute of Preventive and Clinical Medicine, Department of Applied and Clinical
Biochemistry, Bratislava, Czechoslovakia
2003 – 2011: Slovak Medical University, Department of Clinical and Applied Pharmacotherapy,
Bratislava, Slovakia
2006-2011 Slovak Medical University, Vice-rector for Research Affairs, Bratislava, Slovakia
2011- Institute of Molecular Biomedicine, Medical Faculty, Comenius University,
Bratislava, Slovakia

Teaching

Institute for Postgradual Education of Physicians and Pharmacists, Slovak Medical University: Clinical
chemistry, biochemistry, clinical pharmacology; tutor of 7 students who successfully defended PhD

Awards

Award of the Dean of Medical Faculty - 1981; Brunno Watchinger price - 1989; Gold Jánsky Plaque -
2006; Crystal medal of the Society of Bioregenerative and Integrative Medicine - 2014; Gold medal of
the Slovak Medical Society - 2015; 32 invited lectures

Other activities

The International Maillard Reaction Society – member of the Committee 2004-2007

COST 927 Action “Thermally processed foods: Possible health implications”, 2004-2008, head of the WG5: In vivo transformation and maintaining health
Multiplier of the EU action LSH-ACC-Mentor (= Life Science and Health Priority - 6FP and 7FP)
EASD study group ‘Reactive Metabolites in Diabetes’, member of the study group Committee 2014-2017, vice-president since 2017
Evaluator for COST EU actions; Slovak, Czech, Hungarian research agencies; number of biomedical journals, editorial board: Kidney and Blood Pressure Research

Grants

The Slovak Research and Development Agency: APVV: APVT-21-019702 (2002-2005); APVT-21-033002 (2002-2006), APVT-21-010104 (2004-2007), co-investigator
Metabolic syndrome in adolescents, APVV- 0447-12 (2013-2016); APVV-21-0355 (2022-2026) A cafeteria diet-induced obesity in a wild-type and RAGE (receptor for advanced glycation end-products) knockout mice and an effect of peripherally administered oxytocin principal investigator

Ministry of Health of Slovak Republic

Effects of genetic and environmental factors on the prevalence of early insulin resistance, MZ SR: 2005/27-SZU-05 (2005-2008), co-investigator

Slovak Academy of Sciences

Center of excellence for research on neuroendocrine pathomechanisms of serious diseases, 2007-2010, principal investigator

Ministry of Education, Science, Research and Sport of the Slovak Republic

Metabolic syndrome in adolescents, VEGA 1/0637/2013 (2013-2016), principal investigator
Effects of prenatal exposure to unhealthy food on early neuromotoric development and later metabolic status of rat offspring, VEGA 1/0062/16 (2015-2018), principal investigator; The extracellular DNA and its role in the pathogenesis of obesity and metabolic syndrome, VEGA 1/0307/19 (2019-2021)

6FP EC EU

Impending neo-formed contaminants to reduce their health effects (ICARE), COLL-CT-2005, No.: 516415, 2006-2009, principal investigator

7FP EC EU

Alternative testing strategies for the assessment of the toxicological profile of nanoparticles (NANOtest), Health-F5-2008-201335, 2008-2011, co-investigator
A pan-European infrastructure for quality in nanomaterials safety (QNano), CP-CSA-Infra, Grant Agreement No. 262163, 2011-2014, co-investigator

Fellowships

1994-1995: DAAD fellowship, University of Würzburg, Germany (Prof. Dr. Dr. h.c. A. Heidland), Laboratory of nephrology and hypertension
2004: Partnership for Tomorrow Program II, Association of Universities and Colleges of Canada, Children Hospital of East Ontario, Ottawa, Pediatric Department of Nephrology

Publications

CC/IF publications: 194
Citations (Scopus): >3 000 (without self-citations)
Hirsch index (Scopus): 30 (without self-citations)
Patents: 3

5 important papers:

Šebeková K, Kupčová V, Schinzel R, Heidland A. Markedly elevated levels of plasma advanced glycation end-products in patients with liver cirrhosis – amelioration by liver transplantation. *J Hepatol* 2002; 36: 66-71

Šebeková K, Somoza, V., Jarčušková, M., Heidland, A., Podracká, L. Plasma advanced glycation end products are decreased in obese children compared with lean controls. *Int J Pediatr Obesity*, 2009; 4:112-118.

Palkovits M, **Šebeková K**, Klenovics KS, Kebis A, Fazeli G, Bahner U, Heidland A. Neuronal Activation in the Central Nervous System of Rats in the Initial Stage of Chronic Kidney Disease-Modulatory Effects of Losartan and Moxonidine. *PLoS ONE* 2013; 8(6): e66543.

Csongová M, Renczés E, Šarayová V, Mihalovičová L, Janko J, Gurecká R, Troise AD, Vitaglione P, **Šebeková K**. Maternal consumption of a diet rich in Maillard reaction products accelerates neurodevelopment in F1 and sex-dependently affects behavioral phenotype in F2 rat offspring. *Foods* 2019, 8, 168

Csongová M., Scheijen JLJM., van de Waarenburg MPH, Gurecká R, Koborová I, Tábi T, Szökő E, Schalkwijk CG, **Šebeková K**. Association of α -Dicarbonyls and Advanced Glycation End Products with Insulin Resistance in Non-Diabetic Young Subjects: A Case-Control Study. *Nutrients* 2022, 14, 4929.