

CURRICULUM VITAE

RNDr. Mária Kazimírová, CSc. **Senior researcher**

Date and place of birth: 23 August 1957, Bratislava, Slovakia

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Academic/Professional qualifications

1981 Diploma and RNDr., Biology, Faculty of Natural Sciences, Comenius University, Bratislava

1986 Faculty of Natural Sciences, Comenius University, Bratislava, postgraduate study, biochemistry – gene manipulations

1987 CSc. (PhD), Entomology, Institute of Experimental Phytopathology and Entomology, Slovak Academy of Sciences

1997 senior researcher IIa

Other qualifications

1991 Comenius University, Bratislava, JASPEX (language and socio-political education for Slovak experts), English

2008 Certificate in good laboratory practice

2015 Certificate in protection of animals in experimentation

Research areas and outputs

Medical and experimental entomology and acarology, ecology of tick-borne diseases, physiology of tick-host-pathogen interactions.

Author of four book chapters, co-author of one monograph, author or co-author of 55 impacted research papers indexed in WOS, author or co-author of over 25 research papers in peer-reviewed journals and proceedings from conferences, over 500 WOS and SCOPUS citations. Co-author of five international patent applications. Author and co-author of over 100 presentations (oral, posters) in national and international scientific meetings.

Work experience

1981–1996 Institute of Experimental Phytopathology and Entomology (ÚEFE SAV), Slovak Academy of Sciences, Ivanka pri Dunaji

1997- till present, Institute of Zoology, Slovak Academy of Sciences (ÚZ SAV), Bratislava

Research Grants

National projects

State plán of basic research (ŠPZV), SP (State plan for research and development), VEGA (Scientific Grant Agency of the Ministry of Education of the Slovak Republic and Slovak Academy of Sciences), APVT, APVV (Slovak Research and Development Agency)

Ecology and ethology of pests in agriculture with regards to regulation of their population dynamics. State plan ŠPZV, VI-4-8/10, ÚEFE SAV (member of the research staff)

Mechanisms regulating stress responses in insects and influence of stress stimuli on their defense responses. State plan ŠPZV VI-3-4/02, ÚEFE SAV (member of the research staff)

Study of biologically active compounds in insects. Grant 2/999 097/91, ÚEFE SAV (member of the research staff)

Biological control of selected pests in agriculture. Grant 2/106/95, ÚEFE SAV (member of the research staff)

Influence of ecological factors on regulation of physiological processes in insects. VEGA 2/1009/94, ÚZ SAV (member of the research staff)

Bioactive compounds in salivary glands and saliva of haematophagous arthropods and their relation to host haemostasis. VEGA 2/1129/21, ÚZ SAV (principal investigator)

Anti-tick vaccines: Identification and characterization of immunogenic antigens from ticks. VEGA 2/4085/04, ÚZ SAV (principal investigator)

Selected zoonoses in Slovakia in the genomics era with emphasis on ticks and tick-borne diseases. APVT-51-004702, ÚZ SAV (member of the research staff)

Molecular pathogenesis of emerging antropozoonoses in Slovakia. State Plan of Research and Development 2003 SP 51/028 09 00/028 09 08, ÚZ SAV (member of the research staff)

Genomics of transmissible diseases for healthier populations of humans and animals. State Plan of Research and Development 2003 SP 51/028 09 00/028 09, ÚZ SAV (member of the research staff)

Exploitation of the immunosuppressed tick-host interface by pathogens – suitable place for the application of anti-tick vaccines. APVV (Slovak Research and Development Agency) -51-004505, ÚZ SAV (member of the research staff)

Altitudinal distribution of Ixodes ricinus ticks and Borrelia burgdorferi sensu lato in conditions of global climate changes. VEGA 2/0161/09, ÚZ SAV (deputy of the principal investigator)

Structure and functional analysis of new candidates of anti-tick vaccines. VEGA 2/0163/10, Institute of Virology, Slovak Academy of Sciences (member of the research staff)

Identification of novel anticoagulants in salivary glands of ticks (Acari: Ixodidae). VEGA 2/0060/12, ÚZ SAV (deputy of the principal investigator)

Bioactive molecules in tick saliva and their exploitation in the regulation of cell processes in physiological and pathophysiological conditions. VEGA 2/0089/13, Institute of Virology, Slovak Academy of Sciences (member of the research staff)

Investigation of the effect of salivary gland extracts of different tick species on induction and biological activity of IFN-gamma. VEGA, Institute of Virology, Slovak Academy of Sciences (member of the research staff)

Biological significance and pharmacological features of bioactive proteins in tick saliva. APVV 0737-12, Institute of Virology, Slovak Academy of Sciences (principal investigator in ÚZ SAV)

EHP Financial mechanism

Identification, expression and exploitation of bioactive compounds from parasitic helminths, ticks and insects in clinical medicine. SAV-FM-EHP-2008-02-06, ÚZ SAV (member of the research staff)

International projects

European Framework Program

6FP

International consortium of ticks and tick-borne diseases, ICTTD3, coordinated action 10561 (member of the Slovak research staff)

Emerging diseases in a changing European environment (EDEN), GOCE-010284 (member of the Slovak research staff)

7FP

Biology and control of vector-borne infections in Europe (EDENext), 261504, (leader of the Slovak team)

Other international projects and collaboration

Evaluation of ChimeriVax®-Dengue virus (CYD) replication in tick, Sanofi Pasteur, Lyon, France
(member of the research staff)
Saliva of hematophagous arthropods. Centre for Ecology and Hydrology, (CEH) NERC, Oxford, UK
(member of the research staff)
Epidemiologic situation of selected tick-borne diseases in European Free Trade Association countries,
ECDC OJ/2010/01/08-PROC/2010/001 (member of the research staff)
V-borne Assessment of magnitude and importance of vector-borne diseases in Europe. ECDC
OJ/2007/04/13 – PROC/2007/003 (member of the research staff)
Diversity and transmission of tick-borne pathogens. DAAD (leader of the Slovak team)

Stays abroad

1989 Plant Protection Institute VASCHNIL, Leningrad, (Sankt Peterburg), USSR, 14 days
1990 Biological Institute, University of Leningrad, Leningrad, (Sankt Peterburg), USSR, 14 days
1993 Institut für angewandte Zoologie, Universität Bonn, Germany, 30 days
1999 Centre for Ecology and Hydrology, (CEH) NERC, Oxford, UK, 14 days
2000 Centre for Ecology and Hydrology, (CEH) NERC, Oxford, UK, 21 days

Membership in editorial boards of scientific journals

Since 1994 Managing editor of international CC indexed journal *Biologia* (Section Zoology)
<http://www.degruyter.com/view/j/biolog?rskey=mQvXzS&result=1>
Member of editorial boards of *Advances in Zoology and Botany*, *Persian Journal of Acarology*

Other activities

Since 2016 Member of the ethical committee of the Biomedical Centre of the Slovak Academy of Sciences
Member of the network of medical entomologists and public health experts (VBORNET) supported by ECDC

Membership in scientific societies

Slovak Parasitological Society
Slovak Entomological Society

Pedagogic activity

Supervisor of students of the Faculty of Natural Sciences, Comenius University, Bratislava: Department of Zoology, Department of Ecology, Department of Physiology and Ethology of Animals

Languages

German (fluent), English (fluent), Hungarian (fluent), French (basic knowledge), Russian (basic knowledge)