



Curriculum Vitae

Name: Prof. Dr. habil. Katalin Burián Ph.D.

Place and date of birth: Budapest, 1. March 1968

Present address: University of Szeged, Albert Szent-Györgyi Health Center and Albert Szent-Györgyi Medical School Department of Medical Microbiology
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Education:

1986-1992 Albert Szent-Györgyi University, Faculty of Medicine

1998 Medical microbiology licensing examination

1997 Extended Radiation Protection Training (ERPT)

1993 state-accredited English language exam C

1999 state-accredited German language exam C

Employment:

1992- University of Szeged, Faculty of Medicine, Department of Medical Microbiology and Immunobiology

Position:

1992-1998 teaching assistant

1998-2006 assistant lecturer

2006-2011 assistant professor

2011- associate professor

2012- associate professor and head of department

2018 Head of department, Institute of Clinical Microbiology

2021 Head of department, Albert Szent-Györgyi Health Center and Faculty of Medicine Department of Medical Microbiology Educational and Research Center

2021 professor and head of department

Courses:

Undergraduate level: Medical microbiology lectures for 3rd year medical, pharmacy and dentist students in Hungarian and English language
medical microbiology and immunology practice for medical, pharmacy and dentist students
Compulsory elective courses in Hungarian and English for medical students
Examinations for medical and pharmacy students in Hungarian and English (colloquium, final examination)

Consultant for writing a thesis
Management of scientific student groups

Diploma thesis-consultancy:

Supervisor of the diploma work of 52 students
Currently supervising the diploma work of 3 students

Postgraduate level:

Sub-program leader: Doctoral School of Interdisciplinary Sciences
thesis supervisor of Doctoral School of Interdisciplinary Sciences
4 successful defenses
currently supervising 1 student
Announce thesis proposals in Doctoral School

2018- Head of the Vocational Training Board for Medical Microbiology
Licensing examination of Medical microbiologists and Clinical microbiologists
Organization of vocational training forums, courses

Scientific activities

Scientific degrees:

2004 **PhD**, summa cum laude, thesis title: "The role of *Chlamydia pneumoniae* and cytomegalovirus in cardiovascular diseases", ÁOK-28/2004, Doctoral School of Interdisciplinary Sciences

2011 **Habilitation**; title: Role of cytokines and chemokines in the pathomechanism of chlamydia infections

Research grants:

OTKA T019256-1996-1999- Cytokines ad recombinant viruses
AMFK 474/96- 1996- Cytomegalovirus-specific human cytotoxic T lymphocytes
MKM 528- 1996-97- Immunmodulating function of cytokines during DNA immunization
MKM FKFP 2025/97-1997-2000- Infectious agents and atherosclerosis
OTKA F030404-1999-2002- Immune response against *Chlamydia pneumoniae* infection and characteristics of the induced immune protection against infection in mice
ETT 567 08- 2000-2002- Immunological mechanisms in the relationship between infectious agents and atherosclerosis
OTKA T37501-2002-2004- *Chlamydia pneumoniae* infection in a mouse model
OTKA T 034954-2001-2004- Role of dendritic cells in the pathogenesis of cytomegalovirus and *Chlamydia pneumoniae* infection
OTKA T 048747-2005-2008- The genetic background of association of atherosclerosis and *Chlamydia pneumoniae* infections
ETT 466/2006- Analysis of antigens responsible for *Chlamydia pneumoniae*-specific immune response and protection using BCG recombinants
SANOFI-PASTEUR 5C 680 A510 2006-2010- Propagation, quantitation and testing of human cytomegalovirus for microneutralisation assay system
OTKA PD type 100442, 2012-2014. Investigation of new pathomechanisms in genital *Chlamydia trachomatis* infection
GINOP-2.3.2-15-2016-00012 New avenues in natural products-based drug discovery: systemmetabolomics approaches for the discovery of bioactive terpenoids of plant and microbial origin.
GINOP-2.3.2-15-2016-00034 Molecular biological basis of neurodegenerative and immunological pathologies: therapeutic trials with quinurenines.
GINOP-2.3.2-15-2016-00038 Intelligent metal compounds

MTA 2016 Methodology proposal

Interreg Romania-Hungary, Romanian-Hungarian cross-border project with a wider focus on diagnostics related to infertility, healthy pregnancy and newborn care, 2021-

Szent-Györgyi Albert SZTE, SZAOK 2019-2021 Cellular level analysis of indoleamine 2-3 dioxygenase activity in the *Chlamydia trachomatis* infected mouse lung tissues.

Szent-Györgyi Albert SZTE, SZAOK 2020-2023 Characterization of the core persistence proteomes and transcriptomes of *Chlamydia trachomatis* and *Chlamydia pneumoniae*

Awards:

FEMS scholarship 2001

Bolyai scholarship 2006-2009

Excellent Teacher Award 2007

TÁMOP Excellent Teacher Award 2010-2012

Rezső Manninger award 2018

Praise from the Rector 2021

Teacher of the year 2021

Teacher of the year 2022

Lector activity:

Acta Microbiologica et Immunologica Hungarica, editorial board member (AKJ Journals)

Journal of Medical Microbiology (Microbiology Society)

PLOS One (PLOS)

Journal of Blood Medicine (Dove Medical Press)

Respirology (Wiley-Blackwell)

Frontiers in Cellular and Infection Microbiology (Frontiers)

Frontiers in Immunology (Frontiers)

Experimental Lung Research (SCI Journal)

Antibiotics (MDPI)

Frontiers in Pharmacology (Frontiers)

Infections and Drug Resistance (Dove Medical Press)

Life (MDPI)

The Ukrainian Biochemical Journal (Palladin Institute of Biochemistry of the National Academy of Sciences of Ukraine (NASU))

Biomedicines (MDPI)

Journal of Pharmaceutical Research International

Pathogens (MDPI)

Veterinary Sciences (MDPI)

Microorganisms (MDPI)

Refereeing activity

OTKA/NKFI referee for proposals

NKFI Oncology, immunology, microbiology jury member 2021-

Review and evaluation of proposals at the request of Eötvös Loránd Research Network Secretariat and Supported Research Groups 2022-

Diploma thesis referee

Chair, opponent, secretary, member of PhD procedures

Member, assessor of habilitation procedures

Evaluation of international applications:

Referee of Funding top-notch Austrian research Special Research Programs (SFBs) at the request of Austrian Science Fund (FWF)

Referee for START Program applications at the request of Austrian Science Fund (FWF)

Memberships

Federation of European Microbiological Societies (FEMS)

International Union of Microbiological Societies (IUMS)

Hungarian Society of Infectology and Clinical Microbiology (member, 2019)

European Society of Clinical Microbiology and Infectious Diseases (ESCMID) (member, 2017)

European Respiratory Society (ERS) (member, 2019)

Hungarian Medical Chamber

Hungarian Society for Microbiology presidency member

Hungarian Society for Microbiology board member

Head of the Immunology and Parasitology Section of the Hungarian Society of Microbiology

Member of the Habilitation Committee for Interdisciplinary Medical Sciences

University of Szeged Albert Szent-Györgyi Medical School University of Szeged Albert

Szent-Györgyi Medical School Faculty Council Member

University of Szeged Faculty of Pharmacy Faculty Council Member

Patent:

BCG-based anti-atheroma vaccine, US Patent Application No 12/122,454, 2008. 09.

Scientific interest:

- Investigation of the immune response following *Chlamydia pneumoniae* infection in mice.
- Investigation of the role of *Chlamydia pneumoniae* and CMV in human and experimental atherosclerosis in mice.
- Investigation of plasmid gene expression carried by *Chlamydia muridarum* in vivo and in vitro
- Study of the effect of *Chlamydia trachomatis* and Herpes simplex virus on host gene expression
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Scientometric data:

Number of *in extenso* publications: 111

Cumulative impact factors: 385.377

Number of independent citations: 1306

Hirsch index: 20

Szeged, 2023. 04. 26.

Burián Katalin