

Curriculum Vitae

Attila Ambrus, Ph.D.

Education:

- Secondary School Erdey-Grúz Tibor Chemical Technical College, Debrecen, Hungary, 1987-1991
- M.Sc. *Chemist, Diploma work:* Ligand exchange kinetics of HCN and $\text{Ti}(\text{EDTA})\text{CN}^{2-}$ by Dynamic ^{205}Tl and ^{13}C NMR Spectroscopy, *Prof. István Bányai*, Dept. of Physical Chemistry, Kossuth Lajos University, Debrecen, Hungary, 1991-1996
- M.A. *English-Hungarian Vocational Translator in Chemistry*, Kossuth Lajos University, Debrecen, Hungary, 1991-1996
- M.A. *High School Chemistry Teacher*, Kossuth Lajos University, Debrecen, Hungary, 1993-1998
- Advanced Certificate The Principles of Protein Structure Using the Internet (Accredited Advanced Certificate Course), University of London, Birkbeck College, London, UK, 1996-1997, with scholarship from the George Soros Foundation
- Ph.D. *Structural Biochemistry*, Department of Biochemistry and Molecular Biology, University of Debrecen, Debrecen, Hungary, 1996-2001, *Prof. László Fésüs*, *summa cum laude*, *thesis*: Structural investigation of transglutaminases
- Language proficiency mother tongue: *Hungarian*
Russian: 10 years of study, state exam of Hungary (basic level, type C)
English: 14 years of study, state exam of Hungary (advanced level (highest level in Hungary), type C), M.A. degree in English language, 5 years of employment in the USA
- Computer skills Computer operator certificate (1997, Kossuth Lajos University, basic level)

Post-doctoral positions:

University of Arizona, Department of Biochemistry and Molecular Biophysics, Tucson, AZ, USA, 2001-2002, *Prof. William R. Montfort*

University of Arizona, Department of Pharmacology and Toxicology, Tucson, AZ, USA, 2003-2006, *Prof. Danzhou Yang*

Faculty positions:

University of Debrecen, Department of Biochemistry and Molecular Biology, Debrecen, Hungary, Research Associate and Lecturer, 2000-2003

Semmelweis University, Department of Medical Biochemistry, Budapest, Hungary, Research Associate and Lecturer, 2006-2011

Semmelweis University, Department of Medical Biochemistry, Budapest, Hungary, Assistant Professor, 2011-present

Hungarian Academy of Sciences, Budapest, Hungary, Senior Research Fellow, 2017-present

Honors and grants (where PI):

15th place (finalist) of Hungary in the National High School Competition in Chemistry (OKTV), 1991

9th place (finalist) of Hungary in the National Chemical Technical Colleges Competition (OSZTV), 1991

George Soros Scholarship, 1996-1997

János Bolyai Research Fellowship, Hungarian Academy of Sciences, 2006-2009 and 2011-2014

Young Investigator Grant, Gedeon Richter Pharmaceutical Ltd., 2007-2008

IUBMB-Sigma-Aldrich Travel Award, 10th IUBMB Conference, Salvador da Bahia, Brazil, 2007

Young Investigator Grant, Semmelweis University, 2008-2009

Bolyai Plaque, Hungarian Academy of Sciences, 2010

EMBO Short-term Fellowship, 1 month, Univ. of Pittsburgh, PA, USA, 2011

The Protein Society Finn Wold Travel Award, IX. European Symposium of The Protein Society, Stockholm, Sweden, 2011

Fulbright Fellowship, 3 months, Rutgers University, Newark, NJ, USA, 2012

Occasional Lecturer Fund, Fulbright Commission, 2012

MedInProt Grant (co-PI), Hungarian Academy of Sciences, 2015

Erasmus Grant, 2 weeks, Helmholtz-Zentrum Berlin, Germany, 2015

Erasmus+ Grant, 5+5 months and 2+2 weeks mobilities, Rutgers University, Newark, NJ, USA, 2016-2018

Merit Prize, Semmelweis University, 2016-2018

European Union's Horizon 2020 Research and Innovation Programme grant, 2016-2017

European Union's Horizon 2020 Research and Innovation Programme grant, 2018-2019

Erasmus+ Grant, 60+60+10 days mobilities, Rutgers University, Newark, NJ, USA, 2018-2020

Study tours:

Torvergata University, Rome, Italy, 2 weeks, 1997

Institute of Molecular Biotechnology, Jena, Germany, 1 month, 1998
University of Ferrara, Ferrara, Italy, 2 weeks, 1998
NMR laboratory, University of Debrecen, Debrecen, Hungary, 1999-2000
University of Arizona, Department of Chemistry, Tucson, AZ, USA, 8 months, 2000-2001
Stanford Synchrotron Radiation Laboratory, Menlo Park, CA, USA, 3 days, 2002
West Coast Bruker Headquarter, San Francisco/Fremont, CA, USA, 6 days, 2003
Bruker BioSpin West Coast Regional Users Meeting, San Diego, CA, USA, 2 days, 2005
University of New Castle upon Tyne, MRI Center, New Castle, UK, 2 days, 2008
Swedish NMR Centre, University of Gothenburg, Gothenburg, Sweden, 4 days, 2010
Bruker BioSpin AG, Fällanden/Zürich, Switzerland, 3 days, 2010
University of Pittsburgh, Pittsburgh, PA, USA, 1 month, 2011
Advanced Photon Source (APS) at Argonne National Laboratory, Chicago, IL, USA, 3 days, 2011
Rutgers University, Department of Chemistry, Newark, NJ, USA, 3 months, 2012
Helmholtz-Zentrum Berlin, Germany, 2 weeks, 2015
Rutgers University, Department of Chemistry, Newark, NJ, USA, 1 week, 2017
University of Arizona, Department of Chemistry and Biochemistry, Tucson, AZ, USA, 2 weeks, 2017

Selected posters (of >40 posters; first-authored: (F), co-authored: (C); last-authored: (L)):

Sixth International Transglutaminase Conference, Lyon, France, 2000 (F)
XIX. International Conference on Magnetic Resonance in Biological Systems, Florence, Italy, 2000 (C)
Annual meeting of the American Crystallographic Association, San Antonio, TX, USA, 2002 (C)
16th Symposium of the Protein Society, San Diego, CA, USA, 2002 (C)
Frontiers in Biomedical Research Forum, Tucson, AZ, USA, 2004, 2005, 2 posters in 2006 (2F, 2C)
Gordon Conference, Molecular Therapeutics of Cancer, New London, NH, USA, 2005 (C)
97th AACR Annual Meeting, Washington DC, USA, 2006 (C)
47th ENC, Pacific Grove, CA, USA, 2006 (C)
10th IUBMB Conference, Salvador da Bahia, Brazil, 2007 (F)
9th ICBEM Conference, Budapest, Hungary, 2010 (F)
16th EBEC Conference, Warsaw, Poland, 2010 (F)
IX. European Symposium of the Protein Society, Stockholm, Sweden, 2011 (F)
Trends in Biomolecular Structure: from Chemistry to Function, Ljubljana, Slovenia, 2013 (F)
IBRO Workshop 2014, Debrecen, Hungary, 2014 (F)

19th EBEC Conference, Riva del Garda, Italy, 2016 (2L)
30th Anniversary Symposium of the Protein Society, Baltimore, MA, USA, 2016 (L)
SMARTER 5 Conference, Bayreuth, Germany, 2016 (L)
Understanding Biology Through Structure Conference, Santa Fe, NM, USA, 2017 (L)
2nd Annual World Preclinical Congress Europe, Lisbon, Portugal, 2017 (L)
9th Joint BER II and BESSY II User Meeting, Helmholtz Zentrum Berlin, Berlin, Germany, 2017 (L)

Selected lectures/seminars (of >20):

German-Hungarian Conference on Proteomics, Debrecen, Hungary, 2002
University of Arizona, Tucson, AZ, USA, 2005
National Institute of Chemistry, Ljubljana, Slovenia, 2007
10th IUBMB Conference, Salvador da Bahia, Brazil, 2007
University of Ulm, Ulm, Germany, 2007
University of Pittsburgh, Pittsburgh, PA, USA, 2011
Rutgers University, Newark, NJ, USA, 2012
University of Arizona, Tucson, AZ, USA, 2012
Simmelweis Symposium, Budapest, Hungary, 2012
Helmholtz-Zentrum Berlin, Berlin, Germany, 2015
Annual Conference of the Hungarian Biochemical Society, Szeged, Hungary, 2016
Rutgers University, Newark, NJ, USA, 2017
University of Arizona, Tucson, AZ, USA, 2017
20th European Bioenergetics Conference (EBEC), 2018

PDB coordinates:

1N68	Copper bound to the multicopper oxidase CueO
1PF3	Crystal structure of the M441L mutant of the multicopper oxidase CueO
1XAV	Solution structure of the biologically relevant G-quadruplex in the human c-myc promoter
2HY9	Structure of the intramolecular human telomeric G-quadruplex in potassium solution: a novel adenine triple formation
5NHG	Crystal structure of the human dihydrolipoamide dehydrogenase
5J5Z	Crystal structure of the D444V disease-causing mutant of the human dihydrolipoamide dehydrogenase

Memberships:

Protein Society, 2001 -

Public-Body member of the Hungarian Academy of Sciences, 2006 -

NMR Work Commission of the Hungarian Academy of Sciences, 2006 -

Hungarian Biochemical Society, 1996 -

International Society for Magnetic Resonance (ISMAR), 2010 -

European Society for Neurochemistry, 2013 -

Reviewer for:

Analytical Biochemistry

Protein Expression and Purification

Biochimie

Comparative Biochemistry and Physiology A

Journal of Photochemistry and Photobiology B: Biology

FEBS Letters

Preparative Biochemistry and Biotechnology

Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease

Cellular and Molecular Life Sciences

Human Molecular Genetics