

## CURRICULUM VITAE



### PERSONAL INFORMATION

Family name: KONDOROSI  
First name: Éva  
Nationality: Hungarian, French  
Title: Professor, Dr.

Married to Adam Kondorosi (1946-2011), one daughter, Fanny

URL for web site: <http://group.szbk.u-szeged.hu/kondorosi/index.html>

### Address and Contact Information

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### EDUCATION

1996 "Doctor of Sciences", Hungarian Academy of Sciences, Hungary  
1987 "Candidate of Sciences" in Molecular Biology, Hungarian Academy of Sciences, Hungary  
1973 , Budapest, Hungary  
1971 MSc in Biology, Eötvös Loránd University, Faculty of Sciences, Budapest, Hungary

### CURRENT POSITION

2018– Research Professor, Institute of Plant Biology, Biological Research Centre, HUN-RES Szeged, Hungary

### PREVIOUS POSITIONS

2013-2018 Directeur de Recherche Emérite – CNRS, Institute for Integrative Biology of the Cell (Institut de Biologie Intégrative de la Cellule), UMR 9198, Centre National de la Recherche Scientifique, 91198 Gif sur Yvette, France  
2002-2013: Scientific director (DR1), group leader, Institut des Sciences du Végétal, UPR 2355, Centre National de la Recherche Scientifique, France  
1989–2001: Scientific director (DR2), group leader, Institut des Sciences Végétales, CNRS UPR40, Centre National de la Recherche Scientifique, France  
2011-2018 Research Professor, Head of the Symbiosis and Functional Genomics

Unit, Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

2007-2011: Director, Institute for Plant Genomics, Human Biotechnology and Bioenergy (BAYGEN), Bay Zoltán Foundation for Applied Research, Hungary

1987-1989: Project leader, Max Planck Institut für Züchtungsforschung Köln, Germany

1973-1989: Young scientist and then project and group leader, Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

## FELLOWSHIPS

- School of Biological Sciences, University of Sussex, Brighton, England;
- AFRC Unit of Nitrogen Fixation, University of Sussex, Brighton, England;
- Max Planck Institut für Züchtungsforschung, Köln, Germany;
- Harvard University, Cambridge, MA USA;
- Boyce Thompson Institute, Cornell University.

## MEMBERSHIP IN SCIENTIFIC ACADEMIES

- Foreign Associate of the National Academy of Sciences, USA (2010-)
- Member of the Academia Europaea (2010-)
- Corresponding Member of the Hungarian Academy of Sciences (2010-2016)
- Full Member of the Hungarian Academy of Sciences (2016-)
- Foreign Member of the French Agricultural Academy (2013-)
- Member of Nationale Akademie der Wissenschaften Leopoldina (2015-)
- Member of the European Academy of Microbiology (2017-)

## PRIZES/AWARDS

2023	Dimitrie Cantemir medal
2021	Prima Primissima Prize (in science)
2019	Pro Urbe Prize, Szeged
2018	Balzan Prize (chemical ecology)
2018	Man of the year (Szeged, Délmagyar)
2015	Main Prize of Szeged Foundation for outstanding scientific contribution
2012	Széchenyi Prize given by the Hungarian State for outstanding scientific contribution
2012	Prize of the International Society of Molecular Plant-Microbe Interactions given for the highest impact in the field
2011	Prix de la Recherche (Paris) BIOLOGY: "Peptides antimicrobiens pour le contrôle de bactéries symbiotiques chez des plantes légumineuses"
2010	Szeged Prize (for excellent scientific results)

- 2011-2017 ERC Advanced Grant “Sym-Biotics”
- 2007 Hotchkiss Award for scientific achievements in the field of symbiosis and supporting research in the new Baygen Institute directed by Eva Kondorosi
- 1985 Prize of the Hungarian Academy of Sciences for discovery of nodulation genes

## SCIENTIFIC ADVICE, INTERNATIONAL FUNCTIONS

- Group of Chief Scientific Advisors of the European Commission (2020-2023)
- Chair of Life Sciences, Academia Europaea (2021-)
- Board member of Academia Europaea (2015-)
- Vice President, European Research Council (2017–2018)
- Member of the Scientific Council, European Research Council (2013–2018)
- Chair of the ERC Working group on Widening European Participation (2014–2018)
- European Molecular Biology Organization member (2006-)
- Member of the EMBO Long Term Fellowship Committee (2010-2012)
- Member of the Board of Directors at the International Society of Molecular Plant-Microbe Interactions (2008-2015).
- Editor of the Proceedings of the National Academy of Sciences (PNAS) (2010-)
- Editor of MicroLIFE
- Editor of Biology Direct
- Member of the United Nations Secretary General’s Scientific Advisory Board (2012-2016)
- Member of the Strategic Advisory Committee at University of Oslo (2018-2021)
- Member of the University of Cologne’s Academic Advisory Board (2019-2022),
- Member of the international committee of „Polish Excellence Initiative” of the Polish Ministry of Science and Higher Education (2019-)
- Member of the jury of the BIAL Award in Biomedicine (2018-2020).
- Scientific Advisor at the National Research, Development, and Innovation Office of Hungary (2015-)
- Member of the Board of Directors of the IS-Molecular Plant-Microbe Interactions (2011-2015)
- Member of the Steering Committee of the European Nitrogen Fixation Conferences (2016-2021)
- Member of the Scientific Expert Advisory Committee of the Australian Research Council Centre of Excellence for Integrative Legume Research (University of Queensland, Australian National University, University of Melbourne and University of Newcastle) (2007-2011)
- Member of the international jury for the L’OREAL-UNESCO « Women in Science » International Awards (1998-2002)

## SYNOPSIS OF CHIEF SCIENTIFIC ACHIEVEMENTS

Original and significant discoveries in the field of *Rhizobium*-legume symbiosis by studying both the bacterial and plant control of nitrogen fixing root nodule development. Major contribution to the identification (function and regulation) of *Rhizobium* nodulation genes and elucidation of the molecular mechanism of nodule organogenesis. Demonstration of the importance of the endoreduplication cycles in the differentiation of symbiotic plant cells and in plant development. Identification of the cell cycle switch CCS52 proteins in plants required for cell differentiation and genome duplications.

A groundbreaking discovery was the differentiation of the bacteria; demonstration of plant-controlled genome amplification, loss of cell division ability and alteration of the membrane structure in bacteria residing inside the plant cell. Identification of large nodule specific peptide families and demonstration that these nodule specific peptides govern terminal differentiation of bacteria, represents a chief contribution to the *Rhizobium*-legume research. The broad expertise in the fields of microbiology, plant development biology, cell cycle control, bacterial and host communication, molecular biology, genetics, biochemistry, and omics opened innovative research lines. Her ERC Advanced grant (Sym-Biotics) focused on dual exploitation of natural plant strategies in agriculture and public health: enhancing nitrogen-fixation and fighting microbial infections. Her current work aims at the development of effective antimicrobial drug candidates from these symbiotic non-toxic plant peptides that can effectively kill the WHO least treatable pathogen bacteria and fungi. In addition to the development of drugs that replace antibiotics, the main objective is to make better use of biological nitrogen fixation for sustainable agriculture. The current work focuses on regulation and function of the NCR and GRP nodule specific peptide families and enhancement of nitrogen fixation using these peptides in the less efficient symbiotic interactions.

Being one of the 7 members of the group of chief scientific advisors of the European Commission, she was the chief advisor on cancer screening recommendations that were fully integrated in the EU cancer screening guidelines in 2022.

## SCIENTIFIC PUBLICATIONS

The publications are available on the following websites:

<https://scholar.google.com/citations?user=oqT63uIAAAJ&hl=en>

(235 documents)

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10000390> (221 documents)

<https://orcid.org/0000-0002-4065-8515> (238 documents)