

Curriculum vitae
Adalbert Balog

Date of birth: 1973

Nationality: Hungarian

Citizenship: Hungarian, Romanian

E-mail address: adalbert.balog@ms.sapientia.ro

Positions held:

1. Ph.D. leader professor 2013 – present - Doctoral School of Plant Science (2013-present) and Doctoral School of Biology (2018-present), Hungarian University of Agriculture and Life Sciences, Gödöllő. University of Pécs, Doctoral School of Biology and Sport Science, Hungary. https://doktori.hu/index.php?menuid=192&sz_ID=11083&lang=EN.
2. Professor of Entomology and Ecology, 2013-Present, Department of Horticultural Sciences, Faculty of Technical Science, Sapientia Hungarian University of Transylvania. <https://ms.sapientia.ro/en/facult/departments/departament-of-horticulture/prof-adalbert-balog-phd>.
3. Associate professor, 2008 – 2013, Sapientia Hungarian University of Transylvania, Faculty of Technical Science, Department of Horticulture.
4. Lecturer, 2003-2008 Sapientia Hungarian University of Transylvania, Faculty of Technical Science, Department of Horticulture.

Education:

1. Budapest University of Economic Science and Public Administration, actual name is University of Agriculture and Life Science, Department of Entomology, PhD – Crop Science - Insect Ecology 2003.
2. Babeş-Bolyai University of Cluj, Faculty of Biology-Geology, MSc – Ecology 1998.
3. Babeş-Bolyai University of Cluj, Faculty of Biology-Geology, BSc – Biology 1997.

Expertize

I have 25 year experiment in biological pest control using entomopathogenic funguses, natural extracts against fungal pathogens and insects, especially aphids. I also have more than 10 years experiment in pathogens genetic analyses, including Gene Torrent and Illumina systems. I also have significant papers in pests and pathogens adaptations to climate change, and management systems. The role of symbiosis as a mechanisms in pest's adaptation is in my focus. My works focused 70% to field survey and 30% laboratory works and analyses. I also have good knowledge in data analyses including genetic, field and semi-field data. I managed more than 10 projects, with a total value of almost 1 million Euro.

Academic awards and fellowships:

1. 2024.09 – 2025/02 – Domus Research fellowship of the Hungarian Academy of Science
2. 2018/09 – 2019/01 - Tempus Research Fellow. Hungarian Fellowship Committee, Szent István University, Institute of Plant Protection, Gödöllő, Hungary.
3. 2016/09 – 2017/05 - Tempus Research Fellow. Hungarian Fellowship Committee, Szent István University, Institute of Plant Protection, Gödöllő, Hungary.

4. 09/2014 – 05/2015 - Senior Postdoctoral Research Fellow, Hungarian Fellowship Committee, Szent István University, Institute of Plant Protection, Gödöllő, Hungary.
5. 02/2010 – 11/2010 - Fulbright Senior Research Fellow, Yale University, School of Forestry and Environmental Studies, Greeley Memorial Lab, New Haven, Connecticut, USA.
6. 10/2009 – 05/2010 - Senior Postdoctoral Research Fellow, Hungarian Fellowship Committee, Szent István University, Institute of Plant Protection, Gödöllő, Hungary.
7. 01/1009 – 10/1009 - Marie Curie Transfer of Knowledge Research Fellow, Institute of Ecology, Friedrich Schiller University, Jena, Germany.
8. 01/09/2004 – 01/08/2007 - Post-doctoral fellowships “Bolyai János” by the Hungarian Academy of Science.
9. 01/10/2002 – 07/31/2003 - Post-doctoral fellowship Sapientia University, Cluj -Romania.
10. 08/01/2002 – 11/01/2002 - Research Assistant, Horticulture Research International, East-Malling, UK.
11. 09/01/1999 – 08/31/2002 - PhD fellowship, Ministry of Education, Budapest, Hungary.

Service to Sapientia University:

1. 2019 – Present - Director of the Sapientia Foundation Research Programs Institute
2. 2021 - 2024 – Vice Rector for science.
<https://sapientia.ro/en/university/university-management/management>.
3. 2017 - 2020 – Vice Rector for science.
<https://sapientia.ro/en/university/university-management/management>.
4. 2017 – Present, director, Comity for the Talented Student, Sapientia University.
5. 2013 – 2024 – Member in University Senate
6. 2013 – 2016 – Scientific secretary, Sapientia University, Faculty of Technical and Human Science.
7. 2008 – 2016 - Member in Faculty Decision Committee
8. 2009 – 2010 Vice Chair Department of Horticulture
9. 2006 – 2009 Member in Student Admission Committee
10. 2006 – 2009 Departmental Research Advisor

Courses taught:

Entomology I. *course and lab course (B.Sc., compulsory, 3rd semester)*
 Entomology II. *course and lab course (B.Sc., compulsory, 4th semester)*
 General Ecology *course and lab course (B.Sc., compulsory, 4th semester)*
 Integrated Pest Management *course and lab course (B.Sc., compulsory, 5th semester)*
 Quarantine Pests *course (B.Sc., facultative, 5th semester)*
 Research Methodology *seminar (B.Sc., compulsory, 8th semester)*

Leading students:

BSc – finalized 42
 MSc – finalized 19
 Ph.D – finalized 4

Membership and activities in professional associations:

2006 – present – Member of the public body of the Hungarian Academy of Sciences
www.mta.hu

2005 – present – Member in Transylvanian Museum Association. www.eme.ro

1998 – present – Member in Hungarian Entomological Society. www.mrt.hu

Editorial service at journals:

- **North-Western Journal of Zoology** (din 2007 - present).
<https://biozoojournals.ro/nwyz/edit.html>.
- **Romanian Biotechnological Letters** (din 2014 - present).
<https://www.rombio.org/editorial-board>.
- Topic Editor in **Frontiers in Ecology and Evolution** (2015 - 2018).
<https://www.frontiersin.org/research-topics/4065/the-effect-of-stress-on-physiology-morphology-and-behavior-implications-for-reproductive-fitness>.
- **Acta Universitatis Sapientiae, Agriculture and Environment** (2008 - present).
<https://sciendo.com/journal/AUSAE>.
- Topic Editor in **Frontiers in Physiology** (2022-23)
<https://www.frontiersin.org/research-topics/39759/celebrating-the-world-bee-day-2022-fundamental-and-applied-research-on-the-biology-of-bees-and-their>
- Editorial Board Member **Scientific Data (Nature)** (din 2024 - present).
<https://www.nature.com/sdata/editorial-board#Biological-Sciences>
- Topic Editor in **Frontiers in Ecology and Evolution** (2024 - 2025).
<https://www.frontiersin.org/research-topics/65497/the-paradox-of-generalism>

PEER REVIEW CONTRIBUTIONS

Biological Conservation, Biologia, Coleopterists Bulletin, Acta Zoologica Lituanica, Agriculture and Forest Entomology, Insects, Biological Control, Bulletin of Entomological Research, European Journal of Entomology, Etology, Canadian Entomologist, Journal of Animal Ecology, Turkish Journal of Agriculture and Forestry, Environmental Monitoring and Assessment Journal, Biological Agriculture and Horticulture, Biological Journal of the Linnean Society, Turkish Journal of Zoology, Crop Protection, Behavioral Ecology and Sociobiology, PloS ONE, BMC Genomics, Neotropical Entomology, Frontiers in Plant Science, Ecology and Evolution, Environmental Entomology, Ecological Entomology, Journal of Pest Science, Insect Science, Frontiers in Zoology, Pest Management Science, Frontiers in Microbiology, Proceedings of The Royal Society B, Journal of Plant Protection Research, BMC Ecology, Archives of Agronomy and Soil Science, AMBIO, HortScience, Insects-Basel, Ecological Chemistry and Engineering, Agronomy-Basel, Arthropod-Plant Interactions, Toxins-Basel, Journal of Applied Entomology, Italian Journal of Zoology, Biologia Futura, Genes, Mycorrhiza.

Professional honours, awards and fellowships:

Honours:

04/14/2008- Scientific Honour of the Hungarian Academy of Science for outstanding results in research.

INTERNATIONAL Grants

1. **Member:** NAPERDIV - Nature-based perennial grain cropping as a model to safeguard functional biodiversity towards future-proof agriculture. (DE, AT, BE, FR, PL, RO, SE). Funding: Biodiversa ERA-NET, principal investigator Prof. Frank Rasche, University of Hohenheim, Germany. Term 2021-2023. **Value: 1.393.000 euro.**
<https://naperdiv.uni-hohenheim.de/research-approach>.
2. **Director:** “Behavioural ecology of the parasitoid rove beetles *Aleochara bilineata* and *A. bipustulata* (Coleoptera: Staphylinidae, Aleocharinae) associated with its host odours in genetically modified field corn (*Zea mays*)” (2008/1881). 07/05/2008 - 07/06/2008 European Science Foundation, Behavioural Ecology of Insect Parasitoids - from theoretical approaches to field applications (BEPAR). www.esf.org. (4000 EURO)
3. **Director:** “Optimality modelling of behavioural ecology of the parasitoid rove beetles *Aleochara bilineata* and *A. bipustulata* (Coleoptera: Staphylinidae) in Hungarian agricultural fields” (2007/1663). 07/05/2007 - 07/06/2007 European Science Foundation, Behavioural Ecology of Insect Parasitoids - from theoretical approaches to field applications (BEPAR). www.esf.org. (2000 EURO)
4. **Director:** „Rolul stafilinidelor (Coleoptera: Staphylinidae) în livezi de măr și culturi de grâu” (BO/00455/04). 2004/09/01 – 2007/08/31 Academia de Științe Maghiară Bursa de Cercetare „Bolyai János” www.mta.hu. (20 000 EURO)
5. **Director:** „Conserving the flora and fauna of Balea Lake region – Transylvania-Romania” (56/07/2005). 2005/10/31 – 2006/09/30 Rufford Small Grant for Nature Conservation. www.rufford.org. (2500 EURO)
6. **Member:** „Conserving the oligotroph meadows flora and fauna in Eastern Transylvania, Romania” (142/07/2004). 2004/10/31 – 2005/09/30 Rufford Small Grant for Nature Conservation. www.rufford.org. **Director: Conf. Dr. Urák István.** (2500 EURO)

NATIONAL Grants

1. **Member:** Potato cultivars resistance to aphids through somatic hybridizations –tool for ecological agriculture, PN-IV-P7-7.1-PED2024-0433. UEFISCDI, PED, 2024-2026. (150 000 EURO).
2. **Director:** “ The landscape and management effects on clonal variation and microbial symbiont diversity of the corn-leaf aphid (*Rhopalosiphum maidis* Fitch) ” PN-III-P4-PCE-2021-0543, UEFISCDI, 2022-2024 (240 000 EURO).
3. **Director:** PN-II-RU-TE-2011-3-0096 (Host plant changes of aphids under predation), UEFISCDI, 2011-2014 (150 000 EURO).
4. **Director:** „Prey-predator relations on tansy (*Tanacetum vulgare*) in Europe 2012 – 2014 Sapientia – Institute of Research Programs www.kpi.sapientia.ro. (10 000 USD)
5. **Member:** „Macroecological neutral model studies” (1296/25.10.2005). 2005/10/01 – 2006/07/31 Sapientia – Institute of Research Programs, www.kpi.sapientia.ro. (5 000 USD).
6. **Member:** „Macroecological model studies” (14/2004-2005). 2004/10/01 – 2005/07/31 Sapientia – Institute of Research Programs, www.kpi.sapientia.ro. (5 000 USD).
7. **Director:** „Insect predation in orchards” (80/18.05.2004). 2003/04/01 – 2004/09/30 Sapientia – Institute of Research Programs. www.kpi.sapientia.ro. (4 000 USD).

References can be asked

1. **Prof. Oswald J. Schmitz** – Yale University, Greeley Memorial Laboratory, School of Forestry & Environmental Studies, 195 Prospect Street, New Haven, CT 06511, USA, Email: [oswald.schmitz\[at\]yale.edu](mailto:oswald.schmitz[at]yale.edu), Tel: 203 432-5110.
2. **Prof. Hugh D. Loxdale** – Royal Entomological Society, The Mansion House, Chiswell Green Lane, St. Albans, AL2 3NS, United Kingdom, Email: [loxdale\[at\]web.de](mailto:loxdale[at]web.de), Tel: + 44 (0) 1727 899387, Fax: +44 (0) 1727 894797.
3. **Prof. József Kiss** – Universitatea Szent István din Gödöllő, Ungaria, Institutul de Protecția Plantelor, Email: Jozsef.Kiss[at]mkk.szie.hu, Tel: (+36)28 522000 /1771.

7 July 2025

Dr. Adalbert Balog

