

PERSONAL INFORMATION

Gabor L. Lövei

WORK EXPERIENCE

05 August 1998-

Senior Scientist, Adjunct Professor (Emeritus since 2022)

Aarhus University, Faculty of Sciences & Technology, Department of Agroecology, Research Centre Flakkebjerg, Slagelse (Denmark)

Project leadership & independent research in plant protection/ GM biosafety/ agricultural ecology/invasive organisms; teaching at under- and postgraduate level; providing expert opinions on invasive organisms & biosafety for Danihs Min. Agriculture

[Business or sector](#) Academic

01 September 1994 – 15 July 1998

Scientist

Horticulture Research Institute of New Zealand, Ltd., Plant Improvement Division, Palmerston North (New Zealand) (1994-1998), AgResearch & predecessors (1989-1994)

Organise & conduct independent research in agroecology and GM biosafety

[Business or sector](#) Government research

15 May 1978 – 25 September 1989

Associate Research Scientist (to 1982), Research Scientist

Dept. of Zoology, Plant Protection Institute, Budapest (Hungary)

research in agrobiodiversity, biological control, agroecology

[Business or sector](#) Government reseach

EDUCATION AND TRAINING

01 June 2009

Doctor of Sciences

Hungarian Academy of Sciences, Budapest (Hungary)

Ecology; Thesis: Ecology and conservation biology of ground beetles (Coleoptera: Carabidae) in an age of increasing human dominance

01 July 1976 – 10 February 1978

Ph.D. (Zoology)

Jozsef Attila University, Szeged (Hungary)

Zoology/Ornithology

Thesis: The migration of warblers (*Sylvia* and *Phylloscopus* spp.) in Hungary.

15 September 1971 – 15 June 1976

M.Sc. Biology

Jozsef Attila University, Faculty of Sciences, Szeged (Hungary)

research in biology, spec. in zoology

PERSONAL SKILLS

MOTHER TONGUE

Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Italian	C2	C2	C2	C2	C2
Danish	B2	B2	B1	A2	A2
German	B2	B2	B2	B1	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills	Good ability to adapt to multicultural environments, gained though 30+ years work experience outside native country
Organisational / managerial skills	Good & multilingual communication skills through extensive teaching, science communication and collaborative experience in several European, Asian, African, and American countries Leadership experience (currently member of 2 boards of directors/expert panels; lead several international projects involving 40+ people from 5+ countries) Organisational experience: conferences & workshops (25), field projects (21), also in developing countries (9) Founding Director (2006-2012) of the Training Centre in Communication, a non-profit organisation devoted to science communication in Africa (based at Univ.Nairobi, Kenya)
Job-related skills	Extensive teaching & research experience in ecology, biosafety, risk assessment. Proficiency in laboratory techniques (genetics, biochemistry, immunology) & use of specialist equipment in biological research in the field (harmonic radar, microscopes, mist nets, arthropod traps, etc.). Field experience in temperate, southern temperate (New Zealand, S America), semi-arid and arid (Middle East, E African), and tropical (Asian, African) habitats.
Computer skills	Office programs - proficient user; Graphical software (S-Plus, Sigmaplot) - experienced user; R programming language – medium-level user
Other skills	Naturalist guide (ornithology, zoology), with experience in Europe, Africa, New Zealand; wine journalism & commerce; science communication

ADDITIONAL INFORMATION

Extensive publication record (250+science publications) & editorial activity (journal editorships, editorial board memberships, reviewer of 40+ international journals)

Teaching at undergraduate, graduate and postgraduate levels, field courses in Europe, New Zealand & Africa, student supervision in European, Asian and African countries. Tutor on international training courses, inc. further educational courses for EFSA (systematic review method), EC plant health officers (pest risk assessment, multiple since Dec 2012), Tropical Biology Association (Cambridge) and Earthwatch (Boston, USA) field expeditions.

Extensive extracurricular activity (board membership in learned societies, teaching, conference organising)

Winner, Earthwatch-AVIVA Award for Climate Change Research for project on intercontinental bird migration, 2004; Senior Ecology Prize, Hungarian Ecological Society 2015

EFSA Plant Health Panel, Member 2006-2012, Vice Chair – 2006-2009; member of several EFSA inter-panel working groups on systematic review, GMO risk assessment, statistical methods

Adjunct Professor, Chinese Academy of Agricultural Sciences, Institute of Plant Protection, Beijing, China, 2010-2021; Honorary Professor, Univ. Nairobi, 2011, Rockefeller Foundation Resident Scholar, 2011, Minjiang Distinguished Professorial Scholar, Fujian Univ. Agriculture & Forestry, China 2013-2022. Honorary Professor, Hungarian University of Agriculture, 2018; Member, Academia Europea (elected 2019)

LIST OF SELECTED RECENT PUBLICATIONS

2024. **Lövei GL**, Ferrante M. The use and prospects of nonlethal methods in entomology. *Annual Review of Entomology* 69, 183-198.
2024. Magura T, Mizser S, Horváth R, Tóth M, Likó I, **Lövei GL**, Urbanization reduces gut bacterial microbiome diversity in a specialist ground beetle, *Carabus convexus*. *Molecular Ecology* 00, e17265. Early View doi: 10.1111/mec.17265
2023. Ferrante M, **Lövei GL**, Nunes R, Monjardino P, Lamelas-López L, Möller D, Soares AO, Borges PAV. Gains and losses in ecosystem services and disservices after converting native forest to agricultural land on an oceanic island. *Basic and Applied Ecology* 68, 1-12
2023. Szabó B, Korányi D, Gallé R, **Lövei GL**, Bakonyi G, Batáry P. Urbanization decreases species richness, and increases abundance in dry climates whereas decreases in wet climates: a global meta-analysis. *Science of the Total Environment* 859, 160145
2022. Ferrante M, Lamelas-López L, Nunes R, Monjardino P, Horta Lopes DJ, Soares AO, **Lövei GL**, Borges PAV. A simultaneous assessment of multiple ecosystem services and disservices in vineyards and orchards on Terceira Island, Azores. *Agriculture, Ecosystems & Environment* 330, 107909.
2021. López-Bedoya PA, Magura T, Edwards FA, Edwards DP, Rey-Benayas JM, **Lövei GL**, Noriega JA. What level of native beetle diversity can be supported by forestry plantations? A global synthesis. *Insect Conservation and Diversity* 14, 736-747.
2021. Li, H-R, Li, B-P, **Lövei GL**, Kring T, Obrycki J. Interactions among native and non-native predatory Coccinellidae influence biological control and biodiversity. *Annals of the Entomological Society of America* 114, 119-136.
2020. Imboma TS, Gao D-P, You M-S, You S-J, **Lövei GL**. Predation pressure in tea (*Camellia sinensis*) plantations in southeastern China measured by the sentinel prey method. *Insects* 11, 212.
2021. Willow J, Sulg S, Taning CNT, Silva AI, Christiaens O, Kaasik R, Prentice K, **Lövei GL**, Smagghé G, Veromann E. Targeting a coatomer protein complex-I gene via RNA interference results in effective gene

- silencing and lethality in the pollen beetle *Brassicoglyphus aeneus*. *Journal of Pest Science* 94, 703–712.
2020. Magura T, Ferrante M, Lövei GL. Only habitat specialists become smaller with advancing urbanization. *Global Ecology and Biogeography* 29, 1978-1987.
2020. Zhang XM, Lövei GL, Ferrante M, Yang NW, Wan FH. The potential of trap and barrier cropping to decrease densities of the whitefly *Bemisia tabaci* MED on cotton in China. *Pest Management Science* 76, 366-374.
2019. Wyckhuys KAG, Pozsgai G, Lövei GL, & al. Global disparity in public awareness of the biological control potential of invertebrates. *Science of the Total Environment* 660, 799-806.
2019. Ferrante M, Lövei GL, Magagnoli S, Minarcikova L, Tomescu EL, Burgio G, Cagan L, Ichim MC. Predation pressure in maize across Europe and in Argentina: an intercontinental comparison. *Insect Science* 26, 545-554.
2019. Magura T, Lövei GL. Environmental filtering is the main assembly rule of ground beetles in the forest and its edge but not in the adjacent grassland. *Insect Science* 26, 154-163.
2018. Eötvös CB, Magura T, Lövei GL. A meta-analysis indicates reduced predation pressure with increasing urbanization. *Landscape and Urban Planning* 180, 54-59.
2018. Magura T, Lövei GL, Tóthmérész B. Conversion from environmental filtering to randomness as assembly rule of ground beetle assemblages along an urbanization gradient. *Scientific Reports* 8:16992 | DOI:10.1038/s41598-018-35293-8
2018. Pinke Z, Kiss M, Lövei GL. Developing an integrated land use planning system on reclaimed wetlands of the Hungarian Plain using economic valuation of ecosystem services. *Ecosystem Services* 30, 299-308.
- 2017 Begg GS, Cook SM, Dye R, Ferrante M, Franck P, Lavigne C, Lövei GL, Mansion-Vaquie A, Pell JK, Petit S, Quesada N, Ricci B, Wratten SD, Birch ANE. A functional overview of conservation biological control. *Crop Protection* 97, 145-158.
2017. Ferrante M, Gonzalez E, Lövei GL. Predators do not spill over from forest fragments to maize fields in a landscape mosaic in central Argentina. *Ecology and Evolution* 7, 7699-7707.
2017. Lövei GL, Ferrante M. A review of the sentinel prey method as a way of quantifying invertebrate predation under field conditions. *Insect Science* 24, 528-542
2017. Lövei GL, Magura, T. Ground beetle (Coleoptera: Carabidae) diversity is higher in narrow hedges composed of a native compared to non-native trees in a Danish agricultural landscape. *Insect Conservation and Diversity* 10, 141-150.
- 2017 Magura T, Lövei GL, Tóthmérész B. Edge responses are different in edges under natural versus anthropogenic influence: a meta-analysis using ground beetles. *Ecology and Evolution* 7, 1009-1017.
2017. Mansion-Vaquie A, Ferrante M, Cook SM, Pell JK, Lövei GL. Manipulating field margins to increase predation intensity in fields of winter wheat (*Triticum aestivum*). *Journal of Applied Entomology* 141, 600-611.
2017. Pinke Z, Lövei GL. Increasing temperature cuts back crop yields in Hungary over the last 90 years. *Global Change Biology* 23, 5426-5435.
2017. Lövei GL Extinctions, modern examples of. In: Levin, SA (Ed.) *Encyclopedia of biodiversity*, 2nd edition, vol. 5, pp. 362-372. Academic Press, Waltham, MA.
2016. Zhang G-F, Lövei GL, Wu X, Wan F-H. Presence of native prey does not divert predation on exotic pests by *Harmonia axyridis* in its indigenous range. *PLoS ONE* 11(7): e0159048. DOI:10.1371/journal.pone.0159048
2015. Aiassa E, Higgins JPT, Frampton GK, Greiner M, Afonso A, Amzal B, Deeks J, Dorne J-L, Glanville J, Lövei GL et al. Applicability and feasibility of systematic review for performing evidence-based risk assessment in food and feed safety. *Critical Reviews in Food Science and Nutrition* 55, 1026-1034.