

Dr. Máthé Ákos, Habil. Prof.



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1. PROFILE:

Scientific, research and educational professional activities for forty-eight years. Investigation into the biological diversity of horticultural plants, with a focus on Medicinal and Aromatic Plants, their introduction and domestication: elaboration of *in vitro* micropropagation and culturing methods.

Until the present, active English and German lecturer, reviewer, examining body and member of international projects in the capacity of a consultant, organizer of symposia and conferences, and invited speaker. He is the editor of the monograph series Medicinal and Aromatic Plants of the World, of which eleven volumes have already been published by Springer Science Publishing House (the Netherlands).

Academic degrees:

1979, Ph.D. in experimental biology, (CSc),

1999, Doctor of Hungarian Academy of Sciences (DSc),

2000, Habilitated Doctor of Szent István University, (*Dr. Habil.*)

Associate professor: he was head of research and lecturer in Plant Physiology, at the Department of Plant Genetics and Breeding of the University of Horticulture and Food Industry (1982 – 2000). In a pioneering way he introduced tuition in English and German. Subject taught: "Plant Tissue Culture":

University professor: he was head of the Department of Botany at the University of West Hungary, Faculty of Agriculture and Food Sciences, Mosonmagyaróvár, for fourteen years (2001-2015).

Visiting professor:

= University of Massachusetts-Amherst, USA (1995),

= Veterinärmedizinische Universität, Department of Botany, Vienna (1995-1997).

Presently: Professor emeritus at Albert Kázmér Faculty, Széchenyi István University, Mosonmagyaróvár, Hungary.

2. PROFESSIONAL ACTIVITIES

2019-2014.

Vice-President and President of the International Council for Medicinal and Aromatic Plants (ICMAP), member of the scientific organizing committee of VI. World Congress on Medicinal and Aromatic Plants (2019 -),

Member of International **ERASMUS+ PROJECTS** entitled “New Challenges in the field of Essential Oils”, Medicinal and Aromatic Plant Academy for Female Entrepreneurs in Africa”,

Consultant for herb cultivation: supervising a GINOP project of the Széchenyi University, at Kisalföldi Mezőgazdasági Zrt.

Member of expert Committee on Natural Materials and Health Products of the Dutch Ministry of Foreign Affairs, CBI, which deals with the development of imports from developing countries (<2016).

Member of the **International Advisory Board** of experts of the FairWild Foundation

Experts at the IUCN SSC Medicinal Plant Specialist Group of International Union for Conservation of Nature (IUCN).

Expert member at No-Gravity, a Bratislava-based company that has won several ERASMUS Projects, such as: Good Herbs, HerbAid, Herbs4Youth, YoungFarmers Club, EOHUB, MAP ACE. Activities within this framework include authoring teaching materials, studies, giving lectures at international conferences, and participated in workshops (e.g. Bratislava, Bucharest, Liege, London, Murcia, Porto, Kenya, South Africa, Mauritius, etc.).

2014-2000, University of West Hungary, Mosonmagyaróvár

Head of Department, Full Professor at University of West Hungary, Faculty of Agriculture and Food Science, Department of Botany, Mosonmagyaróvár. **Lecturer** in Botany/Agricultural Botany,

Research and Teaching: special focus on the botanical aspects of diversification in agricultural production, on the eco-botanical knowledge related to "Greening", and the development of new economic crops, especially medicinal plants (e.g. *Lobelia inflata*,

Euphorbia lagascae, Labiatae species). Collaborative **Research** with the Institute of Pharmacognosy of Semmelweis University of Medicine and the Institute of Botany of the Hungarian Academy of Sciences.

The elective subject “**NEW Crops and New Uses**” delved into the latest international results and methods of agricultural diversification.

As a core member of the **Habilitation and Doctoral Committee of the Faculty**, supervised the work of doctoral students and was member of the “**Final examination Boards**” for several years.

Re-established the **Botanical Garden in Lucsony** and issued an *Index Seminum*, containing mainly economic crops.

2000-1998.

Associate Professor: University of Horticulture and Food Industry, Department of Dendrology and Ornamental Plant Production, Budapest: pioneering, innovative activity in diversification of agricultural production. Elective subject (taught also in English and German): “New Crops and New Uses”.

Curator and teacher of English and German courses for professional translators. Examination Committee Chair and member in the Green Route” official state examinations organized by Szent István University, Gödöllő.

Organizer of **International Study Programs (ISP)** at the Faculties of Horticulture and Food Sciences.

Member and coordinator of the **Foreign Language Education Committee**, as well as Culture Mission (Committee) of the newly established Szent István University.

Leader of international and Hungarian projects (e.g.: Investigation of *Salvia* species, naturalized in Hungary. EU FP-4FAIR, project, *In vitro* culturing of hard to propagate horticultural crops, OTKA research projects.

CEEPUS- representative of the University, coordinator of the international education consortium (Cooperation in the field of Higher Education in Central Europe)

1998-1995.

Visiting Professor: Plant and Soil Science Institute, University of Massachusetts/USA.

Lecturer of the subject: „Biology and cultivation of Medicinal Plants”.

Visiting Professor: Department of Botany, University of Veterinary Medicine, Vienna/Austria.

Lecturer of the elective subject: „Phytogene Futteradditive“ (Phytogenic feed additives) dealing with the utilization of Medicinal Plants, in animal feeding.

1987-1986.

Fulbright Research Scholarship to study the modern methods in plant breeding,

- = University of Massachusetts, Amherst (USA),
- = University of California Davis, Dept. Environmental Horticulture, Davis (CA),
- = Purdue University, Horticultural Science Institute – West Lafayette (Indiana), USDA Beltsville Agricultural Research Center (Maryland).

1986-1982.

- = **Elaboration and launching** special elective **courses** “*In vitro* micropropagation of plants”, also in English, for special language translator courses.

Research domain: the ecophysiology and cultivation of horticultural plants, especially medicinal and aromatic plants, the study of biological diversity, the elaboration of *in vitro* breeding/micropropagation methods, and the flowering phenological study of horticultural plants.

- = Member of the **National Horticultural Council** with active participation in the reorganization of Hungarian horticultural production, with a focus on Medicinal and Aromatic Plants (1990).
- = Initiator, founding member and first elected secretary of the **Hungarian Association of Medicinal Plants** (1992 -1996).
- = **Founding member** of the Hungarian Horticultural Council (1990).
- = **Secretary/member** of the Horticulture Sub-Committee of the Hungarian Academy of Sciences.

1982-1980.

- = **Senior officer in Ministry of Agriculture and Food Industry**, Department of Higher Education and Research

Main tasks: supervision of Hungarian Agricultural Institutions of Higher Education (Pannon Agricultural University, University of Sylviculture, University of Horticulture and Food Industry)

1979-1974.

- = Research scholar of the Hungarian Academy of Sciences, affiliated with the Research Institute of Medicinal Plants, Budakalász.
- = **Visiting Scholar**, University of Wien Institute for Botany and Institute for Pharmacognosy (1976).

= **Scholar of the Technical University München**, Institute for Vegetable Production), Weihenstephan, Germany (1974).

1973-1971.

= **Foreign trade officer** at MEDIMPEX Foreign Trade Company, Department for Medicinal Plants and Essential Oils, Budapest (1971)

= **Officer for Production Development**, HERBÁRIA National Cooperative Company for Medicinal Plants, Department for Production Development, Budapest: 1971 - 1980.

3. EDUCATION/ACADEMIC/TEACHING QUALIFICATIONS

2000, **Habilitated Doctor (Habil.)** – Szent István University, -Gödöllő.

1999, **Doctor of Hungarian Academy of Sciences (D.Sc.)** - Budapest

Theses: Kertészeti növények biológiai diverzitásának hasznosítása („*Utilization of biological diversity in horticultural plants*”)

1979, **PhD in Experimental Biology (Ph.D.)**, Hungarian Academy of Sciences, Budapest

1973-1978, **PhD scholar** (aspirant) pursued researches in affiliation with the Research Institute for Medicinal Plants, Budakalász on „Morphological, ecological and chemical characterization of cardiac glycoside containing species (*Adonis vernalis* L., *Convallaria majalis* L. and *Digitalis lanata* Ehrh.).

1971, **Diplome Horticultural Engineer**, with a major in Medicinal plant Production.

4. ACTIVITIES IN INTERNATIONAL PROFESSIONAL ORGANIZATIONS:

2019, **VI. World Conference** on Medicinal Plants and Aromatic Plants, Famagusta (Turkey) Member of the Scientific Organizing Committee, President of the Council of Medicinal and Aromatic Plants,

2018, **Consortium member of** ERASMUS+ project: Az „New challenges in the field of Essential Oils,

2016, **Consultant** - FairWild Foundation, International Advisory Board.

IUCN (International Society for the Conservation of Nature, Specialist Group of Medicinal Plants) **Committee Member of** IUCN SSC Medical Plant Specialist Group

CBI Expert Committee Member: CBI Commission for Natural Substances and Health Products, Foreign Ministry of the Netherlands

Consultant and expert:

- = SZE GINOP – research Medicinal plant research project, at the Kisalföld Mezőgazdasági Zrt., Nagyszentjános.
- = No- Gravity NGO, Bratislava, „Good Herbs” Project (2014-)
- = Instructor of **FAO one-week courses on Medicinal plant production**, Antalya, Turkey, 2014 and 2013,
- = **Network coordinator** of the FAO backed **ESCORENA** MAPs Network on Medicinal and Aromatic Plants (within the framework of **AGROWEB**) (2012-)
- = **Speaker at conferences** in this capacity: 2013, Budapest, Antalya, 2014, 2015, 2016, 2017 Saint Petersburg.
- = **Conference Organizer**: International FEED-SEG conference on Healthy Feeds (2008)
- = **International cooperation** with the Department of Botany of the BOKU in Vienna and the Department of Botany, University of Veterinary Medicine, presenting lectures on several occasions within the framework a one-month ERASMUS scholarships.
- = **President of the Section of Medicinal and Aromatic Plants** of the International Horticultural Society (ISHS), in two terms: Establishing new Working Groups dealing with special fields of MAPs. e.g.: "Mountain Herbs", "Medicinal Plants of Arid Areas", "Saffron", "Jojoba". (2006-2014)
- = **Convener, speaker, key-note speaker** at international horticultural congresses (Hamburg, Brussels, Seoul, Lisbon, Brisbane), MAP-conferences: Iran, Tunisia, Switzerland, USA, Thailand, China, Turkey, Serbia, Slovenia, Bulgaria, Russia, etc. on several occasions.

5. PROFESSIONAL PUBLICATION ACTIVITIES:

Activity documented by more than a hundred scientific publications, papers, books edited independently or in co-authorship, conference proceedings, book chapters, book reviews, etc., most of them published in English.

Series editor of the monograph series [Medicinal and Aromatic Plants of the World](#) (Springer Nature).

The eleven volumes published so far have partly dealt with the medicinal plants of the Middle East, Africa, South America, North and South America, India and Turkey in a geographical approach.

Editor of scientific journals:

- = *Herba Hungarica*, Budakalász, Journal on Medicinal Plants
- = *Acta Agronomica Hungarica*, Journal of the Hungarian Academy of Sciences

Member of the editorial boards of the scientific journals, including:

= Cultivated Flora of Hungary Monograph Series,

= Herba Polonica, Turkish Journal of Agriculture and Forestry, Journal of Medicinal and Aromatic Plants (USA), DROGENREPORT, Annals of Phytomedicine, European Journal of Biological Research, (India), Journal of Pharmaceutical Education, Journal of Biology and Earth Sciences, Journal of Applied Horticulture, Biodiversity Watch, AOSR Annals- Series and Agriculture, Silviculture and Veterinary Medicine, Current Perspectives on Medicinal and Aromatic Plants (CUPMAP), Diversitas Journal (Brazil), MDPI Plants, etc.

Reviewer for professional journals (e.g. Industrial Crops and Products, MDPI), **expert proofreader** of Reader's Digest books on horticulture, requests for the evaluation of domestic and foreign PhD dissertations, participation in examinations (e.g. Italy, India).

6. MAJOR WORKS

BOOKS

Máthé, Á. és Romváry, V.: 1978. Fűszer és Gyógynövények a kiskertben és a házunk táján. Mezőgazda Kiadó, Budapest. p. 205.

Máthé Á. és Romváry V.: 1991. Fűszerek és gyógyító növények a kertből. Agricola, Budapest. p. 138.

Szalai I. és **Máthé Á.:** 1994. A növények élete. Vol. I - II. Az életjelenségek analízise a molekuláris szinttől az ökológiai szintig. (Tankönyv) JATEPress, Szeged, p. 524 és p. 579.

Franz, Ch, **Máthé, Á.** and Buchbauer, G. (eds): 1997. Essential Oils: Basic and Applied

Research **Proceedings** of the 27th International Symposium on Essential Oils, September 8-11, 1996, Vienna, Austria, Allured Publishing Corporation, 362 South Schmale Rd, Carol Stream, IL. USA.

Máthé Á. (ed.): 2015. Medicinal and Aromatic Plants of the World Scientific, Production, Commercial and Utilization Aspects. Springer Science Publishers, Dordrecht, The Netherlands. p. 460.

Neffati, M, Najjaa H, **Máthé Á.** (Eds.) 2017. Medicinal and Aromatic Plants of the World - Africa Volume 3. Springer Science Publishers, Dordrecht, The Netherlands. p. 411.

Albuquerque, Ulysses Paulino, Patil, Umesh, **Máthé, Á.** (Eds.) 2018. Medicinal and Aromatic Plants of South America. Vol. 5. Brazil. Springer Science Publishers, Dordrecht, The Netherlands, pp. 486.

Máthé Á. (Ed.) 2020: Medicinal and Aromatic Plants of North America. Vol. 6. Springer Science Publishers, Dordrecht, The Netherlands, pp. 342.

Máthé Á., Arnaldo Bandoni (Eds.) 2021: Medicinal and Aromatic Plants of South America Vol. 2. Argentina, Chile and Uruguay. Springer Cham, Dordrecht, The Netherlands, pp. 551.

Máthé, Á. and Irfan Ali Khan (Eds.) 2022: Medicinal and Aromatic Plants of India Vol. 1. Springer Science Publishers, Dordrecht, The Netherlands, pp. 430

Máthé, Á. and Irfan Ali Khan (Eds.) 2023: Medicinal and Aromatic Plants of India Vol. 2. Springer Science Publishers, Dordrecht, The Netherlands, pp. 302.

Máthé, Á. and Kenan Turgut (Eds.) 2023: Medicinal and Aromatic Plants of Turkey. Springer Science Publishers, Dordrecht, The Netherlands, pp. 327.

Máthé, Á. and Irfan Ali Khan (2023): Medicinal and Aromatic Plants of India Vol. 3. Springer Science Publishers, Dordrecht, The Netherlands, pp. 452.

Máthé, Á. and Irfan Ali Khan (2026): Medicinal and Aromatic Plants of India Vol. 4. Springer Science Publishers, Dordrecht, The Netherlands, pp. 449.

BOOK TRANSLATIONS INTO ENGLISH / HUNGARIAN:

Kovács Margit (ed.): 1985. **Pollution control and conservation.** Akadémiai Kiadó, Budapest. p. 398.

Kovács Margit (ed.): 1992. **Biological indicators in environmental protection.** Ellis Horwood, New York. p. 207.

Courtier, Jane: 2003. **Kertészkedjünk egész évben.** Magyar Könyvklub, Budapest. p. 192.

Budapest, 04. 12. 2025.