



MIKLÓS G. FÁRI PhD, DSc

Position and teaching experience:

Full professor, Group-leader, Department of Plant Biotechnology, Faculty of Agriculture, University of Debrecen, Hungary, Teaching experience: Horticultural biotechnology, Plant Physiology and Genetics.

Training and visits abroad (selected):

Invited researcher, Horticultural Research Centre, Piikkiö, Agricultural Research Organization - MTTI, Finland (6 month, 1994); International agbiotech expert, CODEVASF/AGROINVEST, Brasilia-DF, Brazil (1995-2001); visiting scientist, National Agricultural Research Organization – EMBRAPA, Semi-Arid Agricultural Research Centre, Petrolina-PE, Brazil (1995-2001).

International research collaborations (selected):

Department of Botany, University of Vicosa, Vicosa, Brazil; INRA Station Amerlioration des Plantes Maraicheres, Avignon-Montfavet, France; National Agricultural Research Organization – EMBRAPA, Semi Arid Agricultural Research Centre, Petrolina-PE, Brazil.

International organising experience

Chair: International Societies for Horticultural Sciences (ISHS), Commission Biotechnology and Molecular Biology, Section *In Vitro* (2002-) and one ISHS international symposium (2004); Co-chair: one international meeting (2004); Member of organising committee: three international meetings (1992; 1994; 1996); CODEVASF / AGROINVEST expert (Brazil); Member of the Editorial Board, International Journal of Horticultural Science, (1994-)

Societies:

- International Association for Plant Tissue Culture and Biotechnology (1992-); International Society for Horticultural Science (1994-);
- Hungarian Society for Horticultural Science (1995-);

- Associação Brasileira de Cultura de Tecidos de Plantas, ABCTP, Brazil (1995-2001);
- Hungarian Biological Society (1978-).

Awards:

- Moët-Hennessy Prize Award (1987);
- Széchenyi István Fellowship (2003-2005)

Research experiences, interests and main achievements:

- Cell-, tissue culture of temperate and tropical horticultural crops.
- Father of the semi-automation of plant micropropagation technique – design of phyto- and photobioreactors.
- Genetic transformation of horticultural crops (carrot, eggplant, Capsicums, etc.).
- *In vitro* haploidy of vegetable crops (*Capsicums*).
- Research and patenting on new generation of leaf protein concentrates – LPC from green biomass of grasses and alfalfa in collaboration with Dr. Éva Szabolcsy (UNIDEB, Debrecen, Hungary).
- Father of the patented Artificial Plant Ovary System (APO, 2009), in collaboration with Prof. L. Márton (University of South Carolina, USA)
- Prof. Fári is the inventor of the very first synthetic plant production technology based on sustainable somatic embryogenesis of *Arundo donax* L.
- Design and establishment of the “Biodrome system” (UNIDEB, Hungary)

Grants (selected):

Co-ordinator and participant in several national and International (Brazil, France, USA, Finland) Scientific Research Fund grants.

Selected list of publications (plant biotechnology):

2015	Hassan R El-Ramady, Domokos-Szabolcsy Eva, Neama A Abdalla, Hussein S Taha, Miklós Fári: Postharvest Management of Fruits and Vegetables Storage, SUSTAINABLE AGRICULTURE REVIEWS 15: pp. 62-152.
2014	Hassan El-Ramady, Neama Abdalla, Tarek Alshaal, Domokos-Szabolcsy Eva, Nevien Elhawat, József Prokisch, Attila Sztrik, Miklós Fári, Samia El-Marsafawy, Mohamed S Shams: Selenium in soils under climate change, implication for human health, ENVIRONMENTAL CHEMISTRY LETTERS 2014: (09) pp. 1-19.
2014	Hassan R El-Ramady, Domokos-Szabolcsy Eva, Neama A Abdalla, Tarek A Alshaal, Tarek A Shalaby, Attila Sztrik, József Prokisch, Miklós Fári: Selenium and nano-selenium in agroecosystems, ENVIRONMENTAL CHEMISTRY LETTERS 2014: (08) pp. 1-16.
2014	Popp J, Z Lakner, M Harangi-Rákos, M Fári: The effect of bioenergy expansion: Food, energy, and environment, RENEWABLE AND SUSTAINABLE ENERGY REVIEWS 32: (559) p. 578.
2014	T Alshaal, Domokos-Szabolcsy Eva, L Márton, M Czakó, J Kátai, P Balogh, N Elhawat, H El-Ramady, M Fári: Restoring Soil Ecosystems and Biomass Production of <i>Arundo donax</i> L. under Microbial Communities-Depleted Soil, BIOENERGY RESEARCH 7: (1) pp. 268-278.
2005	Veres Zs, Holb IJ, Nyéki J, Szabó Z, Fári MG: Total anthocyanine content and antioxidant density of some Hungarian sour cherry varieties, INTERNATIONAL JOURNAL OF HORTICULTURAL SCIENCE 11: (2) pp. 109-113.
1995	SZASZ A, NERVO G, FARI M: SCREENING FOR IN-VITRO SHOOT-FORMING CAPACITY OF SEEDLING EXPLANTS IN BELL PEPPER (<i>CAPSICUM-ANNUUM-L</i>) GENOTYPES AND EFFICIENT PLANT-REGENERATION USING THIDIAZURON, PLANT CELL REPORTS 14: (10) pp. 666-669.
1995	MITYKO J, ANDRASFALVY A, CSILLERY G, FARI M: ANTHR-CULTURE RESPONSE IN DIFFERENT GENOTYPES AND F1 HYBRIDS OF PEPPER (<i>CAPSICUM-ANNUUM-L</i>), PLANT BREEDING 114: (1) pp. 78-80.
1995	FARI M, NAGY I, CSANYI M, MITYKO J, ANDRASFALVY A: AGROBACTERIUM-MEDIATED GENETIC-TRANSFORMATION AND PLANT-REGENERATION VIA ORGANOGENESIS AND SOMATIC EMBRYOGENESIS FROM COTYLEDON LEAVES IN EGGPLANT (<i>SOLANUM-MELONGENA L CV KECSKEMETI-LILA</i>), PLANT CELL REPORTS 15: (1-2) pp. 82-86.
1981	FARI M, CZAKO M: RELATIONSHIP BETWEEN POSITION AND MORPHOGENETIC RESPONSE OF PEPPER HYPOCOTYL EXPLANTS CULTURED INVITRO, SCIENTIA HORTICULTURAE 15: (3) pp. 207-213. pp. 207-213.

Others

Number of publications:	477
Number of patents/inventions:	11
Number of varieties:	1 (cv. Greygo, <i>Capsicum annum</i> pepper)
Citations:	1808
Know-how's:	15