

**Name: Mihály Jancsó**

**Position: research fellow, deputy head of research centre**

**Year of obtaining scientific degree:**

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**Organizational unit name: MATE Institute of Environmental Sciences (IES),**

**Research Center for Irrigation and Water Management (ÖVKI), Szarvas**

**Professional experience:**

- 2021- Development and application of modern and conventional breeding methods for the development of water-secure rice cultivation (OTKA FK-138042) Partner institute: Cereal Research Non-Profit Ltd., Szeged
- 2004-: Rice breeding for abiotic and biotic stress tolerance – improvement of technology and genetic background (HAKI, NAIK ÖVKI, MATE KÖTI ÖVKI)
- 2014-: Coordinator of research projects: Research on abiotic and biotic stress tolerance of rice with special emphasis on biotech breeding approaches (cooperation with Cereal Research Non-profit Ltd.) AM-OD002; AM-O15500 – Irrigation Management and Rice Research Project; AM-O15540 – Maintenance and improvement of rice varieties; OTKA K 101917 - Association mapping-based approach for the characterization and improvement of N-use efficiency in winter wheat.
- 2008-: Coordinator of industry-based research projects: Hipp Ltd., Agrár Co., ABO-Mill Co., Javipa Ltd., RiceLand Ltd., Eurofins Ltd.
- 2008-: Scientific Communication and Research Projects as institutional coordinator: REACH (EU FP7 609844), HEURECA 2012 Researcher's Night 2012 (EU FP7 316531), HEURECA Researcher's Night 2011 (EU FP7 287464), HEURECA Researcher's Night 2010 (EU FP7 265759)
- 2008-: Research projects as a team member: Barra09, EU-IPA, Sturgeon Gene bank, Organic Rice and Fish – GAK-VBJ06

**Education, qualification:**

- 1999-2004: MSc in Genetics and Plant Breeding, Faculty of Agricultural and Environmental Sciences, Szent Istvan University, Gödöllő, Hungary  
“Isolated microspore culture of rice (*Oryza sativa* L.)”
- 2000-2004: MSc in German-Hungarian Specialized Translation of Agricultural Sciences, Faculty of Economics and Social Sciences, Szent Istvan University, Gödöllő, Hungary

- 2001-2003: Special Course on Agricultural Extension Management, Faculty of Economics and Social Sciences, Szent Istvan University, Gödöllő, Hungary
- 2021- Ph.D. course in Doctoral School of Plant Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary
- 2015: „Rice Breeding Course” International Rice Research Institute (IRRI), Los Banos, Republic of the Philippines, 16-27. March 2015
- 2008: Training and research in a project of CGIAR GCP (G4008.51) in molecular genetics and plant pathology at CIRAD, Montpellier, France
- 2006: Project management, Szent Istvan University (SZIE GTK), Gödöllő
- 2006: Leadership Skills Training, SZIE GTK, Gödöllő

### **Research activity, field:**

- Management of rice breeding programme with conventional and biotech approaches for the improvement of stress-tolerant rice genotypes
- Aerobic rice breeding and production
- Development of environment-friendly rice production (rice-fish co-culture)
- Doubled haploids in rice breeding
- Irrigation management – research on the soil-water-plant system via lysimeters; evapotranspiration of crop plants, digital sensor systems in research and farming;
- Agroforestry research
- Scientific communication, international research partnerships

### **Awards and recognitions:**

'SZV Szellő' (2020) – leading breeder of state-released rice variety, NÉBIH reg. no. 458931

'SZV Tünde' (2021) – leading breeder of state-released rice variety, NÉBIH reg. no. 477446

Young breeder of the Year 2020 – Hungarian Association of Plant Breeders

### **Information on doctoral training:**

#### **Data of publications:**

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10045438>

ORCID: [0000-0003-1934-9686](https://orcid.org/0000-0003-1934-9686)

Google Scholar ID: [PprqW-8AAAAJ](https://scholar.google.com/citations?user=PprqW-8AAAAJ)

Scopus ID: [13007031200](#)

**Taught subjects:**

University lectures and training in the field of rice production and breeding, irrigation management and seed production (Hungarian and English courses)

Water management in rice production

**Optional thesis topics:**

Evapotranspiration of different crops in large weighing lysimeters

Irrigation management of various crops

Application of sensor systems in irrigation management

Abiotic stress tolerance of rice for the development of conventional and aerobic rice production systems

Herbicides in rice production

Effects of shade on the development of intercrops in agroforestry systems

Other topics of irrigation management and rice production