SCIENTIFIC BIOGRAPHY

Name: Ildikó Kolozsvári
Position: research assistant
Scientific degree and year of obtaining it: in progress (PhD), expected date of obtaining the doctorate is 2023
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Name of the department and institute:

Institute of Environmental Sciences, Irrigation and Water Management Research Centre

Studies:

2007 - 2010 Diploma in **Agricultural Engineering in Environmental Management**. College of Water and Environmental Management, Szent István University, Szarvas, Hungary.

2011 - 2012 Diploma in **Ecotoxicologist**. School of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary.

2013 - 2015 Diploma in **Postgraduate Specialist Training Programme in Seed Management**. School of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary.

2014 - (2023) Plant Science PhD School, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary.

Field of research and activity:

- Irrigation use of agricultural effluents in woody and herbaceous energy crops.

- Functional evaluation of the role of agroforestry system in arable crop production and soil quality improvement under recycled water irrigation.

- Investigation of the efficiency of slurry field nutrient supplementation in winter wheat.

- Investigation of biotic stress tolerance in indigenous rice varieties (funded young researcher under the Ministry of Agriculture's Researcher Supply Programme (1)).

Awards and recognition:x

Information on doctoral training:

https://doktori.hu/index.php?menuid=192&lang=HU&sz_ID=23742

Publication details:

https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10070600

Taught subjects: x

Optional thesis topics:

• Utilization of agricultural effluents for irrigation in arable crops

• Analysis of salt stress during germination in the case of field plants

• Arable crop production in agroforestry systems

Specializations:

Utilization of agricultural wastewater using crop production for sustainable and legitimate agricultural water uses.

- development of the cultivability of energy crops under sewage irrigation
- exmaination with energy willow and poplar, sorghum, rice.
- experiment of the irrigation water quality impact on crops, soil and groundwater
- monitoring of toxic substances in the soil-plant-water system
- research of irrigation water quality in case of different alternative water resources
- investigation of infection (*Aphelenchoides besseyi* Christie) in the seed of Hungarian rice varieties
- analysis of salt stress during germination in the case of field plants
- examination of the effectiveness of slurry application

Major research activities:

2013 - Irrigation farming and rice breeding (basic theme).

2013 - Eurofins - „Terrestrial experiment of ^{14}c-labelled pesticide".

2013 - REACH Tomorrow EU FP7 - Researchers' night 2013.

2014 - Analyse of white tip (*Aphelenchoides besseyi* Christie) disease in Hungarian rice seed.

2014 - Research on agricultural originated waste water usage for irrigation in energy plantations (cooperation with NARIC ERTI), NARIC OVKI, Szarvas, Supported by the Ministry of Agriculture.

2019- Irrigation utilization of agricultural originated effluent water in different crop production systems. Cooperation between NAIK Forest Research Institute and NAIK Research Institute of Irrigation and Water Management. Supported by the Ministry of Agriculture.

2021- Functional evaluation of the role of agroforestry system in arable crop production and soil quality improvement under recycled water irrigation.

2022- Investigation of the efficiency of slurry field nutrient supplementation in winter wheat.

Language skills: English and Slovak, B2 complex