

## Final report on the scholarship funded by TPF (2021/2022)

Dear TPF team,

I would like to present a brief report about my visit stay at the Debrecen University as a guest visitor to the Lab of Dr. Jozsef Prokisch. The title of my topic of the scholarship was:

### **Production of Vegetable and Herb Crops under Drought Stress: Biofortification Strategy using Nano-Selenium and Iodine for Human Health**

Based on the Lab of Dr. Prokisch is a pioneer in many topics especially nano-selenium and its applications, my visit stay had several benefits, which reflected on many published articles. According to my plan, it was planned to publish 3 review articles, but we published more 5 review articles during this period of 10 months.

I can not forget the decent treatment from Dr. Prokisch and all staff members in your Lab, which supported me to help them and collaborate to publish about 10 articles during this period in different topics according to the plant of is Lab.

### List of published articles during my scholarship, which included Acknowledgments for the TPF, Hungary during (2021-2022)

#### I. Published articles in impacted journals

- 1- Badgar K, Abdalla N, **El-Ramady H**, Prokisch J (2022). Sustainable Applications of Nanofibers in Agriculture and Water Treatment: A Review. **Sustainability**, 14, 464. <https://doi.org/10.3390/su14010464> (IF: 3.251)
- 2- Elsakhawy, T.; Omara, A.E.-D.; Abowaly, M.; **El-Ramady, H.**; Badgar, K.; Llanaj, X.; Töros, G.; Hajdú, P.; Prokisch, J. Green Synthesis of Nanoparticles by Mushrooms: A Crucial Dimension for Sustainable Soil Management. **Sustainability** 2022, 14, 4328. <https://doi.org/10.3390/su14074328> (IF: 3.251)
- 3- Shalaby, T.A.; Taha, N.A.; Rakha, M.T.; El-Beltagi, H.S.; Shehata, W.F.; Ramadan, K.M.A.; **El-Ramady, H.**; Bayoumi, Y.A. Can Grafting Manage Fusarium Wilt Disease of Cucumber and Increase Productivity under Heat Stress? **Plants** 2022, 11, 1147. <https://doi.org/10.3390/plants11091147> (IF: 3.935)

## II. Published articles in Non-impacted journals

- 4- **El-Ramady H**, Taha N, Shalaby TA, Elsakhawy T, Omara AE-D, Prokisch J, Bayoumi Y (2021). Nano-Selenium and its Interaction with other Nano-Nutrients in Soil under Stressful Plants: A Mini-Review. *Env. Biodiv. Soil Security*, 5, 205-220. DOI:10.21608/jenvbs.2021.92788.1140 (**NOT IF**)
- 5- Badgar K, József Prokisch J, **El-Ramady H** (2021). Nanofibers for Sustainable Agriculture: A Short Communication. *Egypt. J. Soil. Sci.* 61, (3), 373 - 380. DOI: 10.21608/ejss.2021.105877.1477 (**NOT IF**)
- 6- **El-Ramady H**, Llanaj X, Prokisch J (2021). Edible Mushroom Cultivated in Polluted Soils and its Potential Risks on Human Health: A short communication. *Egypt. J. Soil. Sci.* 61, (3), 381 – 389. DOI: 10.21608/ejss.2021.106452.1478 (**NOT IF**, ISI, Q3)
- 7- **El-Ramady H**, Brevik EC, Elsakhawy T, Omara AE-D, Amer M, Abowaly M, El-Henawy A, Prokisch J (2022). Soil and Humans: A Comparative and A Pictorial Mini-Review. DOI: *Egypt. J. Soil Sci.* Vol. 62, No.2, DOI: 10.21608/EJSS.2022.144794.1508 (**NOT IF**, ISI, Q3)
- 8- Brevik EC, Alaa El-Dein Omara AE-D, Elsakhawy T, Amer M, Fawzy ZF, **El-Ramady H**, Prokisch J (2022). The Soil-Water-Plant-Human Nexus: A Call for Photographic Review Articles. *Env. Biodiv. Soil Security*, 6, DOI: 10.21608/JENVBS.2022.145425.1178 (**NOT IF**)
- 9- Fawzy ZF, **El-Ramady H**, Abd El-Fattah DA, Prokisch J (2022). Sustainable Applications of Mushrooms in Soil Science: A Call for Pictorial Articles. *Egypt. J. Soil Sci.* 62 (2), 101-115. DOI: 10.21608/EJSS.2022.148638.1514 (**NOT IF**, ISI, Q3)
- 10- **El-Ramady H**, Omara AED, Tamer Elsakhawy, Elbehiry F, Amer M, Prokisch J (2022). Photographic Journey in the Lab of Soil Science and Plant Nutrition: An Editorial Call. *Env. Biodiv. Soil Security*, 6, (in press; **NOT IF**)

I would like to thank Dr. Prokisch and his staff team for the hospitality and a great collaboration hoping for more in the future. I have to thanks TPF and the Hungarian Government for giving me this chance to work, to learn and publish more than 10 articles during this short period, hoping to get more scholarship funded by TPF. This scholarship was the second time for me after the first one (2013/2014)!

**Hassan El-Ramady**

Debrecen on 14.08.2022