

## DR. MUHAMMAD NAEEM MUSHTAQ

Assistant Professor (Agronomy)  
University of Agriculture Faisalabad, Sub Campus Burewala, Pakistan  
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### EDUCATION

- ◆ **PhD**, Agricultural Science (Agronomy), University of Tsukuba, Japan
- ◆ **M.Sc. (Hons)**, Agriculture (Agronomy), University of Agriculture, Faisalabad, Pakistan
- ◆ **B.Sc. (Hons)**, Agriculture (Agronomy), University of Agriculture, Faisalabad, Pakistan

### EXPERTISE AND RESEARCH INTERESTS

- Integrated weed management in field crops
- Allelopathy and Chemical Ecology
- Role of allelopathy in agroecosystems

### AWARDS AND DISTINCTIONS

- **Silver Medal (1<sup>st</sup> position)** in M.Sc. (Hons) Agronomy, University of Agriculture, Faisalabad, Pakistan.
- **Gold Medal** in B.Sc. (Hons) Agriculture, University of Agriculture, Faisalabad, Pakistan.
- Nominated twice by University of Agriculture, Faisalabad for Presidential Award, **Aizaz-e-Sabqat**.
- Fellowship by Govt. of Japan for PhD studies.

### SELECTED PUBLICATIONS

#### Research Articles in Peer Reviewed Int. Journals

1. Raza, T., Khan, M.Y., Nadeem, S.M., Imran, S., Qureshi, K.N., **Mushtaq, M.N.**, Sohaib, M., Schmalenberger, A. and Eash, N.S., 2021. Biological management of selected weeds of wheat through co-application of allelopathic rhizobacteria and sorghum extract. *Biological Control* 164: 104775, <https://doi.org/10.1016/j.biocontrol.2021.104775>
2. **Mushtaq M.N.**, Hashmi M.I., Tariq T., Matloob A., Hussain S., Cheema Z.A. 2020. Bioeconomic evaluation of allelopathic crop leachates integrated with reduced doses of herbicide for horse purslane management in maize under field conditions. *Advances in Weed Science (Formelry Planta Daninha)* 38: e020214748 <https://10.1590/s0100-83582020380100067>.

3. Perveen S., **Mushtaq M.N.**, Yousaf M., Sarwar N. 2020. Allelopathic hormesis and potent allelochemicals from multipurpose tree *Moringa oleifera* leaf extract. *Plant Biosystems* 155(1): 154-158.
4. Nadeem S.M., Khan M.Y., Ahmad M., **Mushtaq M.N.**, Qureshi K.N., Naveed M. 2020. Survival efficacy and potential of *Mesorhizobium ciceri* for enhancing the growth and yield of imidacloprid-treated chickpea (*Cicer arietinum*). *Soil and Environment* 39(1): 116-125.
5. Hashim S., Jan A., Fahad S., Ali H.H., **Mushtaq M.N.**, Laghari K.B., Jabran K., Chauhan B.S. 2019. Weed management and herbicide resistant weeds: a case study from wheat growing areas of Pakistan. *Pakistan Journal of Botany* 51: 1761-1767.
6. **Mushtaq, M.N.**, Sunohara, Y., Matsumoto, H. 2013. L-DOPA inhibited root growth of lettuce by inducing reactive oxygen species generation. *Weed Biology and Management* 13: 129-134.
7. **Mushtaq, M.N.**, Sunohara, Y., Matsumoto, H. 2013. Allelochemical L-DOPA induces quinoprotein adducts and inhibits NADH dehydrogenase activity and root growth of cucumber. *Plant Physiology and Biochemistry* 70: 374-378.
8. **Mushtaq, M.N.**, Sunohara, Y., Matsumoto, H. 2013. Bioactive L-DOPA induced quinoprotein formation to inhibit root growth of cucumber seedlings. *Journal of Pesticide Science* 38: 68-73.
9. Mahmood, A., Cheema, Z.A., **Mushtaq, M.N.**, Farooq, M. 2012. Maize–sorghum intercropping systems for purple nutsedge management. *Archives of Agronomy and Soil Science* 59: 1279-1288.
10. Khaliq, A., Matloob, A., Aslam, F., **Mushtaq, M.N.**, Khan, M.B. 2012. Toxic action of aqueous wheat straw extract on horse purslane. *Advances in Weed Science (Formelry Planta Daninha)* 30: 269-278.
11. Khaliq, A., Matloob, A., Farooq, M., **Mushtaq, M.N.**, Khan, M.B. 2011. Effect of crop residues applied isolated or in combination on the germination and seedling growth of horse purslane (*Trianthema portulacastrum*). *Advances in Weed Science (Formelry Planta Daninha)* 29: 121-128.
12. **Mushtaq, M.N.**, Cheema, Z.A., Khaliq, A., Naveed, M. R. 2010. A 75% reduction in herbicide use through integration with sorghum + sunflower extracts for weed management in wheat. *Journal of the Science of Food and Agriculture* 90: 1897-904.
13. Haq, R.A., Hussain, M., Cheema, Z.A., **Mushtaq, M.N.**, Farooq, M. 2010. Mulberry leaf water extract inhibits bermudagrass and promotes wheat growth. *Weed Biology and Management*. 10: 234-240.
14. **Mushtaq, M.N.**, Cheema, Z.A., Khaliq, A. 2010. Effects of mixture of allelopathic plant aqueous extracts on *Trianthema portulacastrum* L. weed. *Allelopathy Journal* 25: 205-212.
15. Jamil, M., Cheema, Z.A., **Mushtaq, M.N.**, Farooq, M., Cheema, M. A. 2009. Alternative control of wild oat and canary grass in wheat fields by allelopathic plant water extracts. *Agronomy for Sustainable Development* 29: 475-482.

### PAPERS PRESENTED/TALKS IN CONFERENCES/WORKSHOPS/SEMINARS

1. **Mushtaq M.N.** 2018. Post texting and citation. One day training for thesis and research writing. 04 March 2018, UAF Sub Campus Burewala, Pakistan.
2. **Mushtaq M.N.** 2017. Internship orientation and report writing seminar. 26 January 2017, UAF Sub Campus Burewala, Pakistan.
3. **Mushtaq M.N.** 2015. One day workshop on carrier counseling and major selection. 26 May 2015, UAF Sub Campus Burewala, Pakistan.
4. **Mushtaq M.N.** 2015. Cotton production technology in UAF-FAP Seminar at Pakpattan and Saidq Abad. 15 April and 04 May 2014.
5. **Mushtaq M.N.**, Sunohara Y. and Matsumoto H. 2013. Induction of quinoprotein formation by L-DOPA in cucumber and its involvement in phytotoxic action. 38<sup>th</sup> Conference of Pesticide Science Society of Japan. March 14-16, 2013, University of Tsukuba, Tsukuba, Japan.
6. **Mushtaq M.N.**, Sunohara Y. and Matsumoto H. 2012. Effect of L-DOPA on ROS generation and mitochondrial respiration in roots of lettuce seedlings. 51<sup>st</sup> Conference of Weed Science Society of Japan. April 4-5, 2012, Tsukuba, Japan.
7. Cheema Z.A., Basra S.M.A., Khaliq A., **Mushtaq M.N.**, Nadeem S. and Ahmad N. 2007. Combined application of allelopathic crop/plant water extracts with lower herbicide dosage for weed management in maize (*Zea mays* L.). 8<sup>th</sup> National Weed Science Conference-Judicious Weed Management Road to Sustainability, June 25-27, 2007. Government College University, Lahore, Pakistan.
8. **Mushtaq M.N.**, Cheema Z.A., Khaliq A. and Basra S.M.A. 2007. Reducing herbicide dose in combination with allelopathic plant water extracts in maize (*Zea mays* L.). International Workshop on Allelopathy-Current Trends and Future Applications, March 18-21, 2007. University of Agriculture, Faisalabad, Pakistan.

### IMPORTANT ADDITIONAL DUTIES/ADMINISTRATIVE ASSIGNMENTS

- ◆ Incharge/Focal Person Admissions, Sub Campus Burewala (2013-Present).
- ◆ Associate Senior Tutor, Sub Campus Burewala (2014-2023).
- ◆ Superintendent for Undergraduate Entry Tests, Burewala Center (2015-Present).
- ◆ Member, Advisory Board of Literary Magazine (BEAS), UAF Sub Campus Burewala (2015-Present).
- ◆ Member/Convener Campus Disciplinary Advisory Committee (2015, 2016 & 2023)