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Date of Birth: March 30, 1991
Passport Number: XD6897841
Nationality: Pakistani
Marital status: Single

Education

Ph.D. Plant Nutrition (2016)	Huazhong Agricultural University, Wuhan- China
M.Sc. (Hons.) Agronomy (2013)	University of Agriculture Faisalabad- Pakistan
B.Sc. (Hons.) Agronomy (2011)	University of Agriculture Faisalabad- Pakistan

Ph.D. project

Rice seed invigoration to confer tolerance to abiotic stresses under different nutrient management regimes

Research interests Plant Nutrition, Abiotic Stresses, Stress Physiology, Phytohormones, Allelopathy, Greenhouse Gases, Seed Invigoration

Languages English, Chinese, Punjabi, Saraiki, Urdu

SCI publications (2014-15)

Cumulative impact factor on RG: 111.11 (till Nov-2015)

- *Benefits of Rice Seed Priming Are Offset Permanently by Prolonged Storage and the Storage Conditions. Scientific Reports (2015)* DOI:10.1038/srep08101
- Pre-sowing seed treatments in direct-seeded early rice: Consequences for emergence, seedling growth and associated metabolic events under chilling Stress. **Scientific Reports (2015)** DOI: 10.1038/srep19637

- *Rice management interventions to mitigate greenhouse gas emissions: a review.* **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-014-3760-4
- *Greenhouse gas emissions, soil quality and crop productivity from a mono-rice cultivation system as influenced by fallow season straw management.* **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-015-5227-7
- *Seed Priming With Selenium: Consequences for Emergence, Seedling Growth and Biochemical Attributes of Rice.* **Biological Trace Element Research (2015)** DOI:10.1007/s12011-015-0260-4
- *Dry direct-seeded rice as an alternative to transplanted-flooded rice in Central China.* **Agronomy for Sustainable Development (2015)** 35(1):285-294.
- *Effect of Rht alleles on wheat grain yield and quality under high temperature and drought stress during booting and anthesis.* **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-015-4724-z
- *Wheat residues management options affect crop productivity, weed growth, and soil properties in direct-seeded fine aromatic rice.* **CLEAN - Soil Air Water (2015)** 43(8):1259-1265. DOI:10.1002/clen.201400776
- *Residual phytotoxicity of parthenium: Impact on some winter crops, weeds and soil properties.* **Ecotoxicology and Environmental Safety (2015)** 122. 352-359.
- *Role of xylo-oligosaccharides in protection against salinity-induced adversities in Chinese cabbage.* **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-015-5361-2
- *Salinity tolerance in wheat cultivars is related to enhanced activities of enzymatic antioxidants and reduced lipid peroxidation.* **CLEAN - Soil Air Water (2015)** 43(8):1248-1258.
- *Implications of low sowing rate for hybrid rice varieties under dry direct-seeded rice system in Central China.* **Field Crops Research (2015)** 175: 87-95.
- *Seed priming in dry direct-seeded rice: consequences for emergence, seedling growth and associated metabolic events under drought stress.* **Plant Growth Regulation (2015)** DOI:10.1007/s10725-015-0083-5
- *A biochar application protects rice pollen from high-temperature stress.* **Plant Physiology and Biochemistry (2015)** 96: 281-287. DOI:10.1016/j.plaphy.2015.08.009
- *Phytohormones and plant responses to salinity stress: a review.* **Plant Growth Regulation (2015)** DOI:10.1007/s10725-014-0013-y
- *Exogenously applied plant growth regulators affect heat-stressed rice pollens.* **Journal of Agronomy and Crop Science (2015)** DOI:10.1111/jac.12148
- *Cadmium toxicity in Maize (Zea mays L.): consequences on antioxidative systems, reactive oxygen species and cadmium accumulation.* **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-015-4882-z
- *Morpho-physiological growth and yield responses of two contrasting maize cultivars to cadmium toxicity.* **CLEAN - Soil Air Water (2015)** DOI:10.1002/clen.201400905

- Lead toxicity in rice: effects, mechanisms, and mitigation strategies—a mini review. **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-015-5463-x
- *Exogenously applied methyl jasmonate improves the drought tolerance in wheat imposed at early and late developmental stages.* **Acta Physiologiae Plantarum (2015)**, in press
- *Effects of tire rubber ash and zinc sulfate on crop productivity and cadmium accumulation in five rice cultivars under field conditions.* **Environmental Science and Pollution Research (2015)** DOI:10.1007/s11356-015-4518-3
- *Zinc-cadmium interactions: impact on wheat physiology and mineral acquisition.* **Ecotoxicology and Environmental Safety (2015)** 122: 528-536.
- *Grain cadmium and zinc concentrations in maize influenced by genotypic variations and zinc fertilization.* **CLEAN - Soil Air Water (2015)** DOI:10.1002/clen.201400376
- *Zinc Bioavailability in Maize Grains in Response of Phosphorous-Zinc Interaction.* **Journal of Plant Nutrition and Soil Science (2015)**. DOI: 10.1002/jpln.201500441
- *Crop Residues Mulch as Organic Weed Management Strategy in Maize.* **CLEAN - Soil Air Water (2015)**. DOI: 10.1002/clen.201500155.
- *Interference and Economic Threshold Level of Little Seed Canary Grass in Wheat Under Different Sowing Times.* **Environmental Science and Pollution Research (2015)** DOI: 10.1007/s11356-014-3304-y
- *Weed growth and crop yield loss in wheat as influenced by row spacing and weed emergence times.* **Crop Protection (2015)** 71. DOI:10.1016/j.cropro.2015.02.005
- *Weed dynamics as influenced by tillage system, sowing time and weed competition duration in dry-seeded rice.* **Crop Protection (2015)** 71:25-38. DOI:10.1016/j.cropro.2015.01.009
- *Phytotoxic activity of parthenium against wheat and canola differ with plant parts and bioassays techniques.* **Planta Daninha (2015)**. In press
- *Trianthema portulacastrum and cyperus rotundus interference in maize and application of allelopathic crop extracts for their effective management.* **Planta Daninha (2015)**. In press
- *Consequences of narrow crop row spacing and delayed Echinochloa colona and Trianthema portulacastrum emergence for weed growth and crop yield loss in maize.* **Weed Research (2014)** DOI:10.1111/wre.12104
- *Differential allelopathic activity of Parthenium hysterophorus L. against canary grass and wild oat.* **Journal of Animal and Plant Sciences (2014)** 24(1):2014-234.
- *Swine Cress (Cronopus didymus L. Sm.) Residues inhibit rice emergence and early seedling growth.* **The Philippine agriculturist (2014)** 96: 419-425.
- *Potentially toxic elements concentration in milled rice differ among various planting patterns.* **Field Crops Research (2014)** 168:19-26. DOI:10.1016/j.fcr.2014.08.007.
- *Progress and constraints of dry direct-seeded rice in China.* **Journal of Food Agriculture and Environment (2014)** 1212(2):465-472.

- *Disease resistance in rice and the role of molecular breeding in protecting rice crops against diseases. **Biotechnology Letters (2014)** DOI:10.1007/s10529-014-1510-9*
- *Silicon application increases drought tolerance of kentucky bluegrass by improving plant water relations and morphophysiological functions. **The Scientific World Journal (2014)** DOI:10.1155/2014/368694*
- *Recent developments in therapeutic protein expression technologies in plants. **Biotechnology Letters (2014)** DOI:10.1007/s10529-014-1699-7*
- *Potential role of phytohormones and plant growth-promoting rhizobacteria in abiotic stresses: consequences for changing environment. **Environmental Science and Pollution Research (2014)** DOI:10.1007/s11356-014-3754-2*
- *Transcriptome analysis reveals the mechanisms of seed priming-induced submergence tolerance in rice. Plant, Cell, and Environment. Under review*

Books/chapters

- *Environmental Issues in Fertilizer Industry. In Advances in Fertilizer Technology, Edited by JN Govil, (2015). Studium Press LLC, USA.*
- *Rice Pest Management and Biological Control". Sustainable Agriculture Reviews, Edited by Eric Lichtfouse, Aakash Goyal (2015).*
- *Plant Mineral Nutrition and Abiotic stresses. Concepts and perspectives. In progress*

Abstracts/proceedings/conferences

- *Role of plant community composition (monoculture and mixture) in cereal crops grown under drought stress. AgMIP-Pakistan Kickoff Workshop and International Seminar on Climate Change. June 4-6, 2013. p. 67.*
- *Allelopathic influence of aqueous crowfoot grass (Dactyloctenium aegyptium L.) extracts on emergence, early seedling growth and biochemical attributes of rice. 1st international conference on "Prospects and Opportunities for Agricultural Development in Pakistan". June 25-27. Khanispur Ayubia, Department of Agriculture, University of Haripur.p.117.*
- *Variation in germination and early seedling growth of wheat cultivars under salt stress. Agriculture in Arid Environment. March 25-26, 2013. Bahadur Sub-campus Layyah, BZU. p. 26.*
- *Response of two rice cultivars to varying sowing densities sown in DSR system. Agriculture in Arid Environment. p. 81.*
- *Influence of various seeding depths and cultivars on performance of Direct seeded rice. Agriculture in Arid Environment. p. 82.*
- *Decomposing swine cress residues inhibit rice emergence and early seedling growth. 22nd Annual Scientific Conference of Federation of Crop Science Societies of the Philippines. Innovative Crop*

Technologies for More Food and Fun. March 11-16, 2013, Pearlmont Inn, Cagayan de Oro City. Philippine.

- Allelochemicals in aqueous Swine cress extracts inhibit wheat germination and early seedling growth. 2nd International Conference of Asian Allelopathy Society. December 14-18, 2012. Department of Botany, Punjab University Chandigarh, India.
- Bio-economic and qualitative impact of reduced herbicide usage in direct seeded fine rice through multipurpose tree water extracts. 4th International Weed Science Congress of Weed Science Society of Pakistan. Vegetation management in 21st century. September 06-08, 2012. KPK Agricultural University Peshawar, Pakistan. p. 14.
- Post emergence chemical weed control in direct seeded fine rice. 4th International Weed Science Congress of Weed Science Society of Pakistan. Vegetation management in 21st century. p. 11.
- Inhibitory allelopathic activity of *Parthenium hysterophorus* against wheat and canola differs among plant parts and bioassays techniques. 4th International Weed Science Congress of Weed Science Society of Pakistan. p. 7.

Editorial Responsibilities

- Editor- in- Chief: Current Research in Agricultural Sciences
<http://www.pakinsight.com/?ic=editorial-board&journal=68>
- Editor: International Journal of Agricultural Science and Food Technology
<http://www.peertechz.com/Agricultural-Science-Food-Technology/editorialboard.php>
- Reviewer for many SCI journals

Awards/Honors

- Nominated as distinguished young international scholar, 2015 by Chinese student council
- Awarded CSC scholarship for Ph.D. studies in Huazhong Agri. University
- Awarded Silver medal on first position in Master degree, University of Agriculture, Faisalabad
- Got the PEEF Scholarship award, by Chief Minister Punjab, Pakistan during Master
- Certificate of Honor and laptop award by Chief Minister Punjab, Pakistan during Master on outstanding academic record.

Membership

- International fertiliser society
- Society of young agronomist, Pakistan
- Pakistan society of Agronomy

- Weed Science society of Pakistan

References

- Mingjian Geng (Ph.D., Associate Professor, Key Laboratory of Arable Land Conservation, College of Resources and Environment, Huazhong Agricultural University, Wuhan, 430070, Hubei, China, Phone: +86 1365 7293 986, E-mail: mjgeng@mail.hzau.edu.cn)
- Abdul Khaliq (Ph.D., Professor, Department of Agronomy, University of Agriculture, Faisalabad-38040, Pakistan, Mobile: +92 321 661 5848, E-mail: khaliquaf@gmail.com)