



Editor- *Planta Daninha (ISI Journal)*

Brazilian Weed Science Society

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INSTITUTION ADDRESS

Cholistan Institute for Desert Studies (CIDS),
The Islamia University of Bahawalpur (IUB),
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ACADEMIC AND EXPERIENCE PROFILE:

- **Assistant Professor (IPFP)**, Cholistan Institute for Desert Studies (CIDS), The Islamia University of Bahawalpur. (August 2016 to Continue...)
- **Agronomy Team Leader/Bioenergy Consultant**, AF Consult, Switzerland. Updating Biomass Power Generation Feasibility Study for 5-20 MW Project, Faisalabad, Pak (01-04-2016~25-08-2016).
- **Ph. D Arid Land Agriculture (Field Crops)**. Department of Arid Land Agriculture, King Abdulaziz University, Jeddah, KSA. **CGPA 4.85/5.00**. (11-09-2012~20-02-2016).
- **Research Assistant (Plant Molecular Physiology Lab)**. College of Food and Agriculture Sciences, King Saud University, KSA (11-02-2012~25-08-2012).
- **M. Sc. (Hons.) (Agronomy/Weeds Science)**. University of Agriculture, Faisalabad, Pakistan. **CGPA 3.59/4.00**. (15-08-2009~22-10-2011).
- **B. Sc. (Hons.) (Agronomy)**. University of Agriculture, Faisalabad, Pakistan. **CGPA 3.74/4.00**. (12-09-2005~20-06-2009).

DISSERTATION TITLES:

Ph. D. Thesis: Response of different wheat (*Triticum aestivum* L.) genotypes to drought stress and planting dates under arid land conditions of Saudi Arabia.

M. Sc. (Hons.) Thesis: Chemical weed control in dry seeded fine grain aerobic rice (*Oryza sativa*).

RESEARCH INTERESTS:

- | | |
|-------------------------------------|-----------------------|
| -Agronomy | -Crop Physiology |
| -Drought and Heat Stress Physiology | -Arid Land Management |
| -Statistics and Experimental Design | -Deficit Irrigation |
| -Bioinformatics | -Weed Science |

TOTAL IMPACT FACTOR: (36.85)

TOTAL CITATIONS: >100

International Impact Factor Publications:

1. **Muhammad Zahid Ihsan**, Samina Jam Nazir Ahmad, Zahid Hussain Shah, Hafiz Mamoon, Zubair Aslam, Ishita Ahuja, Atle Bones and Jam Nazir Ahmad (2017). Gene mining for proline based signalling proteins in cell walls of *Arabidopsis thaliana*. **Frontiers in Plant Sciences**. Bioinformatics and Computational Biology. DOI: 10.3389/fpls.2017.00233 (IF=4.49)
2. Samir G. Al-Solaimani, Fahad Alghabari, **Muhammad Zahid Ihsan** and Shah Fahad (2017). Water deficit irrigation and nitrogen response of sudan grass under arid land drip irrigation conditions. **Irrigation and Drainage**. DOI: 10.1002/ird.2110 (IF=0.87)

3. Asad Amin et al (2017). Optimizing the phosphorus use in cotton by using CSM-CROPGRO-cotton model for semi-arid climate of Vehari-Punjab, Pakistan. *Environmental Science and Pollution Research*. DOI: 10.1007/s11356-016-8311-8 (IF=2.76)
4. **Muhammad Zahid Ihsan**, Fathy Saad Elnakhlawy, Shah Fahad and Saleh Alzamanan (2016). Genotypes Selection on the basis of Periodic Performance- A Reliable Strategy to Maximize Crop Water Use Efficiency and Productivity in Arid Regions *Annals of Arid Zone*, 55(3&4): 153-163. (IF=0.40)
5. **Muhammad Zahid Ihsan**, Fathy Saad El-nakhlawy, Saleh Ismail, Shah Fahad and Ihsanullah Daur (2016). Wheat phenological development and growth studies as affected by drought and late season high temperature stress under arid environment. *Frontiers in Plant Sciences*. Agroecology and Land Use Systems. DOI: 10.3389/fpls.2016.00795 (IF=4.49)
6. Fahad Alghabari, **Muhammad Zahid Ihsan**, Abdul Khaliq, Saddam Hussain, Ihsanullah daur, Shah fahad and Wajid Naseem (2016). Gibberellin-sensitive Rht alleles confer tolerance to heat and drought stresses in wheat at booting stage. *Journal of Cereal Science*. Journal of Cereal Science. DOI: org/10.1016/j.jcs.2016.05.016 (IF=2.40)
7. Mohamed A Shaheen, Fathy S El-Nakhlawy, Fahd M Almeahmadi, **Muhammad Zahid Ihsan**, Abdulmohsin R Al-Shareef and Mohamed A Shaheen (2016). Assessment of seasonal variation for air pollutant accumulation by Zizyphus tree under washing treatment. *Environmental Monitoring and Assessment*. DOI: 10.1007/s10661-016-5354-8 (IF=1.63)
8. Shah Fahad, Saddam Hussain, Shah Saud, Shah Hassan, Mohsin Tanveer, **Muhammad Zahid Ihsan**, Adnan Noor Shah et al., (2016). A combined application of biochar and phosphorus alleviates heat-induced adversities on physiological, agronomical and quality attributes of rice. *Plant Physiology and Biochemistry*. DOI.org/10.1016/j.plaphy.2016.03.001 (IF=2.92)
9. Shah Fahad, Saddam Hussain, Shah Saud, Shah Hassan, BS, Chouhan, **Muhammad Zahid**, **Ihsan** et al., (2016). Responses of rapid viscoanalyzer profile and other rice grain qualities to exogenously applied plant growth regulators under high day and high night temperatures. *Plos one*. DOI:10.1371/journal.pone.0159590 (IF=3.54)
10. Shah Fahad, Saddam Hussain, Shah Saud, Shah Hassan, **Muhammad Zahid Ihsan** et al., (2016). Exogenously Applied Plant Growth Regulators Enhance the Morpho-Physiological Growth and Yield of Rice under High Temperature. *Frontiers in Plant Science*. Plant Nutrition. DOI: 10.3389/fpls.2016.01250 (IF=4.49)
11. Muhammad Naeem, Azher Madmood, **Muhammad Zahid Ihsan**, Ihsanullah Daur, Saddam Hussain, Zubair Aslam and Saleh Al Zamanan (2016). Trianthema portulacastrum and Cyperus rotundus interference in maize and application of allelopathic crop extracts for their effective management. *Planta Daninha*. DOI.org/10.1590/S0100-83582016340200002 (IF=0.52)
12. Fahad Alghabari, **Muhammad Zahid Ihsan**, Saddam Hussain, Ghulam Aishia and Ihsanullah Daur (2015). Effect of Rht alleles on the tolerance of wheat grain quality to high temperature and drought stress during booting and anthesis. *Environmental Science and Pollution Research*, DOI: 10.1007/s11356-015-4724-z (IF=2.76)
13. Azhar Mahmood, Abdul Khaliq **Muhammad Zahid Ihsan**, Zahid Ata Cheema (2015). Crop Residues Mulch as Organic Weed Management Strategy in Maize. *Clean-Soil, Air, Water*. DOI: 10.1002/clen.201500155 (IF=1.71)
14. **Muhammad Zahid Ihsan**, Muhammad Naeem, Azhar Mahmood, Abdul Khaliq and Ahmad A. S. Bakhaswain (2015). Field evaluation of allelopathic plant extracts along herbicides on weed management indices and weed-crop regression analysis in maize. *Weed Biology and Management*. DOI:10.1111/wbm.12070 (IF=0.92)
15. Azhar Mahmood, **Muhammad Zahid Ihsan**, Muhammad Naeem, Abdul Khaliq, Zahid Ata Cheema and Ahmad A. S. Bakhaswain (2015). Estimation of weed dry biomass and grain

yield as a function of growth and yield traits against allelopathic weed management in maize. *Planta Dhanja*. DOI.org/10.1590/S0100-83582015000100003 (IF=0.52)

16. Abdul Khaliq, Farheena Aslam, Ammar Matloob, Javaid Ahmed, Tanveer Ahmed, Saddam Hussain and **Muhammad Zahid Ihsan** (2015). Phytotoxic activity of Parthenium hysterophorus against wheat and canola differs among plant parts and bioassay techniques. *Planta Daninha*. DOI.org/10.1590/S0100-83582016340100002 (IF=0.52)
17. **Muhammad Zahid Ihsan**, Fathey Saad Elnakhlawy and Saleh Mohamad Ismail (2015). Water use efficiency, growth and yield of wheat cultivated under competition with *Setaria*. *Planta Daninha*. DOI.org/10.1590/S0100-83582015000400006 (IF=0.52)
18. **Muhammad Zahid Ihsan**, Abdul Khaliq, Ahmad Bakshwain, Refaat Atta-allah Ahmed, Ammar Matloob and Zubair Aslam (2014). Influence of herbicides applied alone or supplemented with manual weeding on weeds growth, rice yield and quality of direct seeded rice (*Oryza sativa* L.). *The Philippine Agricultural Scientist*. 97(4): 377–384 (IF=0.46)
19. Abdul Khaliq, Amar Matloob, **Muhammad Zahid Ihsan**, Rana Nadeem Abbas, Zubair Aslam and Fahd Rasool (2013). Supplementing herbicides with manual weeding improves weed control efficiency, growth and yield of direct seeded rice. *International Journal of Agriculture and Biology*. 15(2): 191–199 (IF=0.93)

Non-Impact Factor Papers

1. Zubair Aslam, Qamar-uz-Zaman, **Muhammad Zahid Ihsan**, Sairah Syed, Yoshiharu Fujii, Abdul Khaliq, Raza Ullah, Misbahul-Islam and Zahir Ahmad Zahir (2016). Efficacy of rice straw extracts in controlling weeds and enhancing the productivity of wheat (*Triticum aestivum* L.). *Pakistan Journal of Weed Science Research*, 22(2): 197-210.
2. Fathy Saad El-Nakhlawy, Fahad Alghabari, **Muhammad Zahid Ihsan** (2015). Response of Wheat Genotypes to Planting Dates in the Arid Region, *Scientia Agriculturae*, 10(2): 59-63.
3. Samir G. Al-Solaimani, Fahad Alghabari, **Muhammad Zahid Ihsan** (2015). Effect of different rates of nitrogen fertilizer on growth, seed yield, yield components and quality of canola (*Brassica napus* L.) under arid environment of Saudi Arabia. *International Journal of Agronomy and Agricultural Research*, 6(4): 268-274.
4. Amir Latif, Tanveer Ahmed, Sikandar Hayat, Ghulam Sarwar, **Muhammad Zahid Ihsan**, Muzaffar Raza, Muhammad Sarwer, Iftikhar Akmed Khan (2014). Genetics of yield and some yield contributing traits in upland cotton (*Gossypium hirsutum* L.). *Journal of Plant breeding and Crop Science*, 6(5): 57-63.
5. Zaid Mustafa, Muhammad Aslam Pervez, Chaudhary Muhammad Ayyub, Amar Matloob, Abdul Khaliq, Saddam Hussain, **Muhammad Zahid Ihsan** and Madiha Butt (2014). Morpho-physiological characterization of chilli genotypes under NaCl salinity. *Soil and Environment*, 33(2): 133-141.
6. **Muhammad Zahid Ihsan**, Nauman Shahzad, Shamsa Kanwal, Muhammad Naeem, Abdul Khaliq, Fathy Saad El-Nakhlawy, Ammar Matloob (2013). Potassium as Foliar Supplementation Mitigates Moisture Induced Stresses in Mung bean (*Vigna radiata* L.) as Revealed by Growth, Photosynthesis, Gas Exchange Capacity and Zn Analysis of Shoot. *International Journal of Agronomy and Plant Production*, 4(S): 3828-3835.

Conference Papers/ Abstracts

1. Zubair Aslam, **Muhammad Zahid Ihsan**, Misbah ul Haq and Abdul Khaliq (2011). Isolation and characterization of rice root associated novel bacterium. Abstract published in JAPS conference 5-7 July 2011 Bara Gali Peshawer University. Journal of Animal and Plant Sciences.
2. Fahad Alghabari and **Muhammad Zahid Ihsan** (2016). Wheat and alfalfa growth response to Allium sativum water extract under saline irrigation. 1st International Salinity Conference (ISC-2016) 19-21 December, 2016. The Islamia University of Bahawalpur, Pakistan.

Books/Book Chapters

1. **Muhammad zahid Ihsan** and Abdul Khaliq (2013). Rice Direct Seeding and Weed Management in Asia. Weed management in rice through integration of chemical and mechanical approach in direct seeding under Pakistani conditions. 1st edition, **Lambert Academic Publishing Germany**. (Book)

EDITOR:

- 1- Planta Daninha (Brazilian Weed Science Society)
- 2- Journal of Arid Land Agriculture

REVIEWING SERVICE:

- Frontiers in Plant Science
- Planta Daninha
- Spanish Journal of Agriculture Research
- Crop Breeding and Applied Biotechnology
- Proceeding of the National Academy of Sciences Part B

TEACHING COURSES AT (KING ABDULAZIZ UNIVERSITY, JEDDAH KSA):

Course No	Course Title	Credit Hours
AGR-101	Basic Agriculture	3(2-1)
AGR-105	Desertification	3(3-0)
AGR-203	Arid Land Agriculture	3(2-1)
AGR-206	Introduction to Weed Science	3(2-1)
C. Phy-201	General Crop Physiology	2(1-1)
C. Phy-203	Environmental Sresses and Plant	3(2-1)
AGR-309	Weed Control	3(2-1)
AGR-405	Crop Physiology	3(2-1)
AGR-502	Advanced Crop Production	3(2-1)
STAT-601	Experimental Design	2(2-0)
STAT-705	Statistical Analysis	3(3-0)

RESEARCH SOFTWARES:

- 1) SAS
- 2) STATISTICA
- 3) DSTAT
- 4) geneMANIA
- 5) GENEVESTIGATOR
- 6) CROPWAT

CONFERENCES/WORKSHOPS:

- 1st International Salinity Conference, 19-21 December 2016, Islamia University of Bahawalpur, Pakistan.
- Seventh Scientific forum, 10 October 2015 to 14 October 2015. King Faisal center, King Abdulaziz University, Jeddah Saudi Arabia.
- Fifth Scientific forum, 12 November 2013 to 15 November 2013. King Faisal center, King Abdulaziz University, Jeddah Saudi Arabia.
- International conference on “Crop management issues and options” on June 01-02, 2011 under Golden Jubilee Celebration (1961-2011) organized by Pakistan Society of Agronomy (PSA) at University of Agriculture Faisalabad, Pakistan.
- International conference on “Sustainable food grain production: challenges and opportunities” On Oct 26-27, 2009, organized by Pakistan Society of Agronomy (PSA) at University of Agriculture Faisalabad-Pakistan.

PROFESSIONAL MEMBERSHIPS:

- Member of SOYA (Society of Young Agronomist)
- Member of Pakistan Society of Agronomy.
- Member of Arid Land Agriculture community, King Abdulaziz University Jeddah, KSA

PROFESSIONAL TRAININGS

- 44th post graduate training program on nuclear and advanced techniques in agriculture and biology 21-11-2016~02-12-2016
- Biotechnology Lab Protocols King Saud University, Riyadh Saudi Arabia from 20-04-2012~15-05-2012
- Training on Tunnel Farming, University of Agriculture Faisalabad, from 15-10-2009~15-11-2009

AWARDS/SCHOLARSHIPS:

- King Abdullah Scholarship for Science and Technology 2011-15 for Ph. D studies
- King Abdullah Scholarship for Science and Technology 2010 for Master studies
- University Merit Scholarship Winner, 2005-2009
- Kaneez Fatima Merit Scholarship Winner 2007-2009
- District Merit Scholarship Winner 2005-2009
- USAID Funded merit and need based Scholarship winner 2009-2011

- Certificate of Excellence in Hostel Management Committee 2009
- Certificate of Excellence from Pakistan Society of Agronomy (PSA). 2011
- Certificate of Excellence in Management of internship tour 2009
- Certificate of Excellence in football, athletic, hiking and tracking
- Sports man of the year, University of Agriculture Faisalabad, 2007

Submitted/Under review

1. **Muhammad Zahid Ihsan**, Ihsanullah Daur, Zubair Aslam, Tasneem Akhtar and Saddam hussain. Heat stress and rice pollen characteristics. ***Plant Reproduction*** (submitted).
2. Qamar uz Zaman, **Muhammad Zahid Ihsan**, Zubair Aslam*, Muhammad Rashid and Muhammad Yaseen. Zinc Biofortification: A solution to combat malnutrition in under developed countries (A review). ***Archives of Agronomy and Soil Science*** (Submitted).
3. **Muhammad Zahid Ihsan**, Fathey Saad El-nakhlawy, Saleh Mohmood Ismail and Ihsanullah Daur. Stress tolerance, water use efficiency and yield studies of rain fed drip irrigated wheat under drought stress. ***Annals of Arid Zone*** (submitted).
4. Pia Muhammad Adnan Ramzani, **Muhammad Zahid Ihsan**, Shazia Anjum and Muhammad Iqbal. Degraded sandy land maize productivity enhancement by organic amendments was directly related to soil health status and enzymatic activities; A study from Cholistan desert 40 years fallow land fields. ***Land Degradation and Development*** (Submitted)