***SHOAIB MUNIR***

*Ph.D. Horticulture*

*Key Laboratory of Horticultural Crop Biology and Genetic improvement*

*Huazhong Agricultural University, Wuhan 430070, PR China*

***Personal Information***

*Nationality; Pakistani*

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***Research Area***

*Research Area; biotic/abiotic stress, genomics/bioinformatics, protein biochemistry, physiology, biochemistry and molecular biology of crops.*

*Ph.D. Project; Genome-wide identification, characterization and functional analysis of calmodulin-like (CML) proteins in tomato*

*Post-doc Project; Environmental stresses and plants interaction for horticultural crops*

***Research Related Skills***

* Bioinformatics tools (R, Sigma Plot, heat map, linkage map, Gene Ontology, phylogenetic, synteny analyses, gene duplication etc.)
* HPLC for the identification and quantification of Plant secondary metabolites/hormones
* Transmission electron microscopy (TEM) and scanning electron microscopy (SEM) for plant’s subcellular localization
* Spectrophotometry, Infrared gas analyzer (IRGA)
* RNA isolation, RNA-seq analysis, gene functional analysis (via. western blot, qRT-PCR, overexpression, promoter: reporter fusions, etc.)
* primer designing, PCR (conventional PCR, RT-PCR, nested PCR, and qPCR)
* Vectors construction, gene cloning, transfection and transduction
* Yeast-one-hybrid (Y1H), yeast-two-hybrid (Y2H) protein analysis, Co-Immunoprecipitation (Co-IP)

***Qualification***

**Level Session Institute**

*Post-doc* 2016-2017 Huazhong Agricultural University, Wuhan, China

Ph.D. Horticulture 2016 Huazhong Agricultural University, Wuhan, China

M.Sc. (Hons.) Hort. 2010 University of Agriculture, Faisalabad, Pakistan.

B.Sc. (Hons.) Agri. 2008 University of Agriculture, Faisalabad, Pakistan.

***Publications***

* **Shoaib Munir**, Hui Liu, Yali Xing, Saddam Hussain, Bo Ouyang, Yuyang Zhang, Hanxia Li. Zhibiao Ye. 2016. [Overexpression of calmodulin-like stress-responsive gene from *Solanum habrochaites*, enhances tolerance to multiple abiotic stresses](http://www.nature.com/articles/srep31772).(Scientific Reports, **IF:5.228**)
* **Shoaib Munir**, Muhammad Rehman Gul Khan, Jianwen Song, Sadia Munir, Yuyang Zhang, Zhibiao Ye, Taotao Wang. 2016. [Genome-wide identification, characterization and expression analysis of calmodulin-like (CML) proteins in tomato (*Solanum lycopersicum*)](doi:10.1016/j.plaphy.2016.02.020) (Plant Physiology and Biochemistry, **IF:2.928**)
* Jianwen Song, Yali Xing, **Shoaib Munir**, Chuying Yu, Lulu Song, Hanxia Li, Zhibiao Ye. 2016. [ATL78-like RING-H2 finger protein confers abiotic stress tolerance in tomato](http://journal.frontiersin.org/article/10.3389/fpls.2016.01305/full) (Frontiers in plant science, **IF 4.495**)
* Atif Riaz, Adnan Younis, Asif Riaz Taj, Asmat Karim, Usman Tariq, **Shoaib Munir**, Sitwat Riaz. 2013. [Effect of drought stress on growth and flowering of marigold (*Tagetes erecta*L.)”](http://www.pakbs.org/pjbot/abstracts/45(S1)/18.html) (**IF:0.822**)

***Work Experience***

* June.2016-to-date. Post-doctoral Fellow at Huazhong Agricultural University, Wuhan, China
* September.2011-July.2012. Research Assistant (Horticulture) at PMAS Arid Agriculture University, Rawalpindi, Pakistan
* June.2010-June.2011. Assistant Manager (Horticulture) at COMSATS Institute of Information Technology, Lahore, Pakistan

***Important Subjects Studied***

Biotechnology, Bioinformatics, Research Methods in Horticulture, Preparation of Research Project and Scientific Writing, Environmental Horticulture, Principle & Production of Fruits, Principle & Production of Vegetables

***National/International Conferences, symposiums & seminars***

* Participated in one-day seminar on “Recent trends in landscape design and floriculture” dated 26 November, 2011.
* Participated in one-day seminar on “Prospects of floriculture industry in Pakistan” dated 28July, 2009.
* Participated in international symposium on “Modern approaches and techniques in agriculture to ensure food security in Pakistan” dated: 13-14 October, 2008
* Participated in one-day workshop on “Supercritical fluid extraction technology for high value non-traditional crops” dated 21October, 2008.
* Participated in one-day workshop on “Role of medicinal plants in poverty alleviation” dated 27May, 2008.
* Participated in international symposium on “prospects of horticultural industry in Pakistan” dated 28-30 March, 2007

***Technical Trainings***

* Participated in one week “Training course on poly tunnel farming” organized by Agribusiness support fund, Lahore dated 02-07 February 2009.
* Participated in three-month training course on “Computer Aided Landscape and Design (AutoCAD 2004)” organized by NVTEC Pakistan, dated 15 Auguest-14 November 2008.
* Participated in one week” training course on tunnel technology” organized by Pakistan Society of Horticultural Sciences, dated 19-24 February 2007.
* Participated in one week” training of professional certification in mushroom cultivation” organized by Pakistan Society of Horticultural Sciences, dated 27 November-02 December 2006.

***Distinctions***

* Excellence Award for 2016 HZAU
* International student’s representative for 2016 HZAU Alumni Association
* Chinese Government Scholarship 2012 for Ph.D. studies in Huazhong Agri. University
* Evaluated the “63rd Flower and vegetable show 2012” at Morgha Club, Attock Oil Refinery, Rawalpindi.
* Participation certificate in “Spring Flower Show 2009”
* Participation certificate in “Annual Chrysanthemum & Autumn flower show 2008”
* Vice President and Press Secretary, Pakistan Society of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan in 2009-10 & 2007-08.
* Certificate of Excellence in Sports in 2007.
* Certificate of Excellence in Sports in 2006.
* Organizing University Sports Festival 2006.

***References***

* **Prof. Dr. Zhibiao Ye**

*Professor and Deputy Director,*

*MOE Key Laboratory of Horticultural Plant Biology, Huazhong Agricultural University, Wuhan, Hubei 430070, P.R. China*

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* **Prof. Dr. Liu Kede**

*Professor,*

*College of Plant Science and Technology, Huazhong Agricultural University, Wuhan, Hubei 430070, P.R. China*

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* **Dr. Taotao Wang**

*Associate professor,*

*MOE Key Laboratory of Horticultural Plant Biology, Huazhong Agricultural University, Wuhan, Hubei 430070, P.R. China*

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