

# SIDRA TUL MUNTHA

C/O Tailor Master Muhammad  
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## Objectives:

To be a part of well reputed organization that can provide me the opportunity for skill development and serving the nation by the virtue of hard work. I want to be a part of a research group that is working for the growth and development of society. My aim is to apply my skills and learn more in my upcoming career.

<b>2014-2018</b>	<b>PhD Olericulture (Plant Molecular Biology)</b> Zhejiang University Hangzhou, China
<b>2009-2011</b>	<b>MS Biotechnology</b> COMSATS Institute of Information Technology, Abbottabad, Pakistan <b>CGPA: 3.83/4 (87.38%)</b>
<b>2005-2009</b>	<b>BS (Hons.) Biotechnology</b> Centre of Biotechnology and Microbiology, University of Peshawar, Pakistan <b>Marks obtained: 3217/4350 (74 %)</b> <b>Grade: A</b>
<b>2003-2005</b>	<b>Intermediate. (Pre-medical)</b> Hazara Public School and College, Haripur, <b>Marks obtained: 848/1100 (77.00%)</b> <b>Grade: A</b>
<b>2001-2003</b>	<b>Matriculation (Science)</b> Government Girls High School Sarai Saleh, Haripur, Pakistan <b>Marks obtained: 629/850 (74%)</b> <b>Grade: A</b>

## PhD (Olericulture) Research Work:

- ❑ **Thesis Title:** Mapping-by-resequencing deciphers a *phytochrome A signaling transduction 1, BjPAT1*, required for branching in Chinese leafy *Brassica juncea*
- ❑ **Duration:** 3.9 years
- ❑ **Supervisor:** Dr. Mingfang Zhang Prof. Zhejiang University, China
- ❑ **MS Thesis Title:** Cloning of a ERF family Transcription Factor from tomato, involved in biotic and abiotic stress tolerance
- ❑ **Duration:** 6 months
- ❑ **Supervisor:** Dr. Jamshaid Hussain Associate Prof. COMSATS University, Pakistan

## Publications:

- ❑ **Sidra Tul Muntha**, Lili Zhang, Yufeng Zhou, Xuan Zhao, Zhongyuan Hu, Jinghua Yang\*, Mingfang Zhang “**Phytochrome A signal transduction 1 and CONSTANS-LIKE 13 coordinately orchestrate shoot branching and flowering in leafy *Brassica juncea***” *Plant Biotechnology Journal* 2019 (17): 1333–1343 **IF. 9.8**
- ❑ Abdul Basit, Syed Tanveer Shah, Izhar Ullah, **Sidra Tul Muntha** & Heba I. Mohamed “**Microbe-assisted phytoremediation of environmental pollutants and energy recycling in sustainable agriculture**” *Arch Microbiol* 2021 Sept. **IF. 2.55** <https://doi.org/10.1007/s00203-021-02576-0>
- ❑ Shah, Jawad Munawar, **Sidra tul Muntaha**, Essa Ali, Azhar Abbas Khan, Syed Hassan Raza Zaidi, Ahmad Naeem Shahzad, Zeshan Hassan, Ahmad Nawaz, Muhammad Rashid, and Syed Asad Hussain Bukhari. “**Comparative study of the genetic basis of nitrogen use efficiency in wild and cultivated barley.**” *Physiology and Molecular Biology of Plants* 2019 Sept.: 1-10. **IF. 2.005**
- ❑ Raza, M. A., A. Nawaz, M. Ali, M. Zaynab, **S. T. Muntha**, S. H. R. Zaidi, A. R. Khan, and XL ZHENG. “**In-vitro regeneration and development for the conservation and propagation of tomato plant (SOLANUM LYCOPERSICUM) and currant tomato (S. PIMPINELLIFOLIUM) from two different explants**” *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH* 18, no. 1 (2020): 879-888. **IF. 0.74**
- ❑ **Muntha Sidra tul**, Jinghua Yang, Mingfang Zhang, Yufeng Zhou “**Genetic control of branching and flowering in leafy *Brassica juncea***” The Fifth International Horticulture Research Conference July 20-24, 2018 Beijing, China
- ❑ **Sidra Tul Muntha**, Jinghua Yang, Mingfang Zhang “**Phytochrome A signal transduction 1 and CONSTANS-LIKE 13 coordinately orchestrate vegetative branching and flowering in leafy *Brassica juncea***” *Brassica 2018* July 1-4 21st Crucifer Genetics Conference Saint Malo, France
- ❑ Manan S., Hussain J., Tul Muntha S., Maroof Shah M. “**Development of a tissue culture-independent Agrobacterium-mediated transformation method for wheat**” *Minerva Biotechnologica* 2012 June;24(2):53-7 **IF.0.54**
- ❑ Sidra tul Muntha<sup>1\*</sup>, Muhammad Faizan<sup>2</sup>, Saba Mehreen<sup>3</sup> and Shareen<sup>4</sup> “**Exploring Nanotechnology to Reduce Stress: Mechanism of Nanomaterial-Mediated Alleviation**” Springer Nature Switzerland 2021:
- ❑ Abdul Basit, Syed Tanveer Shah, **Sidra tul Muntha** and Heba Mohamed “**Plant Growth-Promoting RhizoBacteria (PGPR) as Biocontrol Agents for Viral Protection**” Springer Nature Switzerland 2021:187-225.

[https://doi.org/10.1007.978-3-030-66587-6\\_8](https://doi.org/10.1007.978-3-030-66587-6_8)

## Major projects and funds:

- ❑ A project entitled “**The mechanism of PAT1 and COL13 genes interact to regulate the branching and flowering of B. juncea**” by National Natural Science Foundation of China of amount 570000 RMB August 2018.

## Theoretical Knowledge:

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|-------------------------------|-------------------------------|
| ❑ Molecular Biology           | ❑ Biochemical Engineering     |
| ❑ Microbiology                | ❑ Medical Biotechnology       |
| ❑ Biochemistry                | ❑ Animal Biotechnology        |
| ❑ Bioinformatics              | ❑ Plant Biotechnology         |
| ❑ Genetic Engineering         | ❑ Environmental Biotechnology |
| ❑ Oncology                    | ❑ Recombinant DNA Technology  |
| ❑ Industrial Biotechnology    | ❑ Immunology                  |
| ❑ Cellular Signalling         | ❑ Tissue culture              |
| ❑ Genomics                    | ❑ Enzymology                  |
| ❑ Stem Cells and Therapeutics | ❑ Research Methodology        |
| ❑ Nucleic Acid                | ❑ Proteomics                  |
| ❑ Biostatistics               | ❑ Medical Genetic             |

## Lab Skills:

- ❑ Equipment operated: Yeast two Hybrid system, Bimolecular fluorescence complementation (BiFC), Thermal Cycler (conventional and real time PCR), Gel doc, Micropipette, Laminar Flow Hood, Autoclave, Simple Incubator, Ultra Centrifuge, Shaking Incubator, Shaking Hot Plate, Colony Counter, Vortex Mixer, ELISA Reader, Single and Double Beam Spectrophotometer, NanoDrop Spectrophotometer, Refractometer, Column and Thin Layer Chromatography , P<sup>h</sup> Meter, Rotary Evaporator, Shaking Water Bath, Gel Documentation System, Red Far red light Growth Chambers etc.

## Experience:

- ❑ Asst. Prof. IPFP at KOhsar University Murree Pakistan Sept. 2 2021 till present.
- ❑ Worked as Lecturer Plant sciences at Govt. Postgraduate College for Women Haripur, Pakistan from June 2019-december 2020
- ❑ Worked as Internee at Nuclear medicines, Oncology and Radiotherapy Institute (NORI) Islamabad.  
Training: Molecular Diagnosis of HCV and HBV using Real Time PCR (RT PCR), Genotyping of HCV, Biochemical tests for Diabetes, Pathological tests for different types of Cancers
- ❑ Worked as Internee at Environment protection Agency Regional Office Abbottabad  
Training: Monitoring officer and analysis of Environmental Issues of the region

## Social Skills and Competences

- ❑ Studious, gentle, academic, dedicated, self-motivated

- ❑ Dedicated and committed
- ❑ Cope with situation with ease and courage
- ❑ Natural ability to adapt to new environment
- ❑ Excellent communication skills

## Language Proficiency

- ❑ English IELTS (Competent User)
    - Dated: April 12, 2012
    - Centre Number: PK015
  - ❑ Urdu (Expert User)
- Conducted by: British Council, Pakistan  
Candidate Number: 306027

## Scholarship:

- ❑ Award of full scholarship for PhD studies by China Scholarship Council at Zhejiang University, Hangzhou, China 2014-2018
- ❑ Award of Merit based Scholarship by COMSATS Institute of Information Technology, Abbottabad, Pakistan 2009-2011

## Seminars and trainings Attended:

- ❑ One month online National Faculty Development program 2020 organized by National Academy of Higher education, Higher education Commission (NAHE, HEC) July, 2020
- ❑ Two-Days International Training workshop on Scientific Paper and Patent Writing organized by Islamic World Educational Scientific and Cultural Organization (ICESCO), Kingdom of Morocco, Rabat from 14-15 December, 2020
- ❑ 10<sup>th</sup> International Conference for Plant Mitochondria Biology (ICPMB) in Hangzhou, China, from 22 -27<sup>th</sup> May, 2017
- ❑ 3<sup>rd</sup> Graduate Festival for asking the Truth and Dreaming for the Agriculturists held by College of Agriculture and Biotechnology, Hangzhou, China from 25 -28<sup>th</sup> May, 2018
- ❑ 4<sup>th</sup> International Conference on Environmentally Sustainable Development (ESDev) in Abbottabad, Pakistan from 24-26<sup>th</sup> July 2011
- ❑ Techno Moot 2011 (National Science Projects Exhibition) from 9-10<sup>th</sup> May 2011 in Abbottabad, Pakistan
- ❑ Techno Moot 2010 (National Science Project Exhibition) in Abbottabad, Pakistan from 4-5<sup>th</sup> May, 2011
- ❑ National Biotechnology Exhibition and Seminars held on 20-21<sup>st</sup> October, 2010 organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore, Pakistan
- ❑ Seminar on “Avian Influenza Vaccine Production Strategies” in April 2008 at Center of Biotechnology and Microbiology, University of Peshawar, Pakistan
- ❑ “Cloning and its ethical Perspectives” in 2009, held in University of Peshawar, Pakistan

## References

1. **Dr. Mingfang Zhang**  
Professor, Department of Horticulture, College of Agriculture & Biotechnology, Zhejiang University, China, 310058  
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**4. Dr. Muhammad Maroof Shah (PhD USA)**

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