

# AYSHA JAMEEL

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Research Assistant

Biological Research Centre, Institute of Plant Biology, 6726 Szeged, Temesvári  
Krt. 62. Hungary.

	<u>All</u>	<u>Since 2018</u>
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## Education and Trainings

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**Post Doctoral fellowship** (December 2019 - January 2022)

Tsinghua University Beijing, China

**PhD in Crop Biotechnology** (September 2014 - June 2019)

Jilin Agricultural University, China

Thesis: “Construction, validation and utilization of synthetic promoters against drought stress in wild soybean”

**M.Phil in Plant Biochemistry and Molecular Biology** (2008 –2010)

Quaid-e-Azam University Islamabad, Pakistan.

GPA: 3.9/4.00

Thesis: “Standardization of Tissue Culture Conditions for *Plantago ovata* and assessment of somaclonal variations”

**MSc in Genetics** (2005 – 2007)

Hazara University Mansehra, Pakistan.

GPA: 3.14/4.00

Thesis: Disease resistance crops production by Genetic manipulation.

## Work Experiences

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- **Research Assistant** (April 2022 – till now)  
Biological Research Centre, Institute of Plant Biology, Szeged, Hungary.  
Project: CRISPR/Cas9-Induced Loss-of-Function Mutation against the Drought stress in Maize (*Zea mays*)
- **Postdoctoral Researcher** (December 2019 - January 2022)  
Project: Harnessing the Power of ARTP Random Mutagenesis and Adaptive Laboratory Evolution to Enhance Methanol Tolerance of Engineered AM1 (*Methylobacterium Extorquens*) Strain”  
Tsinghua University Beijing, China.
- **Post Graduate Researcher** (September 2014 - June 2019)  
Project: “Construction, validation and utilization of synthetic promoters against drought stress in wild soybean”  
Jilin Agricultural University, China
- **Research Assistant** (January 2013 – September 2014)  
Project: “Micropropagation of High yielding banana and their field evaluation”.  
National Agricultural Research Centre, Islamabad, Pakistan.

- **Research Assistant (2011 - 2013)**

Project: “Genetic improvement of Groundnut for herbicide and disease Resistance”.

National institute of Genomics and advanced biotechnology, Islamabad, Pakistan.

## **Research Skills**

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- Molecular Biology skills: Plasmid preparation, ligation, transformation, Genomic DNA extraction, total RNA extraction, RT-PCR, PCR, site-directed mutagenesis, ELISA development.
- Protein skills: Protein purification, SDS-PAGE, SDS-PAGE, Western blot, bacterial protein expression, protein refolding.
- Cell Biology skills: Transfection, Reporter Gene assays (GFP, LUC, GUS), cell counting (haemocytometer), fluorescent microscopy, cell cloning, Cell proliferation assay and cell culture.
- Transgenic skills: Plant genetic transformation, transgene cassette construction, embryo culture, microinjection, callus embryo and cell suspension culture, *in vitro* regeneration of plants (Medicinal plants, cereal crops, *Arabidopsis thaliana*)
- Bioinformatics Professional Experience  
BLAST, FASTA, Minitab, MEGA, BioEdit, MEGA 5, and ClusterW

## **Computer Skills**

- Windows Professional 2000, X.P. & Vista (Certified) Microsoft Office (Word, Excel, Power Point).  
Adobe Photoshop CS + Editing.

## **Languages**

- English, Chinese, Urdu