CURRICULUM VITAE

TASLEEM JAVAID

Department of Biochemistry and Molecular Biology
Complex Carbohydrate Research Center (CCRC)
315 Riverbend Road
University of Georgia
Athens, GA 30602

Telephone:(567) 801-2450

e-mail: tj79095@uga.edu

ACADEMIC BACKGROUND

Ph.D., Plant Biology, Department of Environmental & Plant Biology
December 2022, Ohio University, Athens, Ohio 45701

Master of Science, Botany, Department of Botany, April 2015
University of the Punjab, Lahore, Punjab, Pakistan 54590

Bachelor of Science, Botany, Department of Botany, July 2012
University of the Punjab, Lahore, Punjab, Pakistan 54590

ACADEMIC APPOINTMENTS

2023-present	Post-Doctoral Research Associate, Department of Biochemistry and Molecular Biology, Complex Carbohydrate Research Center (CCRC), University of Georgia, Athens, Georgia
2021-2022	Research Assistant, Department of Environmental and Plant Biology Ohio University, Athens, Ohio
2017-2021	Teaching Assistant, Department of Environmental and Plant Biology Ohio University, Athens, Ohio
2015-2016	Lecturer in Botany**,** Government Post Graduate College for women, Higher Education Department, Lahore, Punjab, Pakistan
2014-2015	College Teacher Intern (CTI), Government College of Science, Lahore, Punjab, Pakistan

TECHNICAL SKILLS

Molecular Biology: Gene cloning, overlap PCR, DNA and RNA extraction, quantitative real-time RT-PCR, CRISPR-CAS9 gene editing technology, Co-expression of multiple genes in Tobacco epidermal cells, Agrobacterium-mediated Rice callus genetic transformation, Arabidopsis floral dip transformation.
Cell Biology: Confocal Microscopy, Compound Microscopy
Plant Tissue culture: Generation of Calli from rice seeds and Duckweed; regeneration of plants from callus, Rice Calli Agrobacterium-mediated transformation.
Protein biochemistry: Protein purification; Enzyme activity assays: Microsome preparation: SDS-PAGE: Western blotting.

PUBLICATIONS

1. **Javaid, T.,** Bhattarai, M., Venkataraghavan, A., Held, M., & Faik, A. (2024). Specific protein interactions between rice members of the GT43 and GT47 families form various central cores of putative xylan synthase complexes. *The Plant Journal*.
2. Bhattarai, M., Wang, Q., **Javaid, T**., Venkataraghavan, A., Hassan, T., O'Neil, M., Tan, L., Chen, H., & Faik, A. (2024). Streamlining assays of glycosyltransferases activity using in vitro

GT-array (i-GT-ray) platform: Application to family GT37 fucosyltransferases. *Journal of Biological Chemistry*.

DISSERTATION

Tasleem Javaid (2022). Xylan Biosynthesis in grasses: Uncovering specific protein-protein interactions (PPI) between rice members of the GT43 and GT47 families and their implication in plant development, Ohio University, December 10, 2022. ORCID ID=0000-0002-2982-4201.

POSTERS PRESENTED

1. **Tasleem Javaid,** Pradeep K. Prabhakar, Digantkumar G. Chapla, Charles J. Corulli, Brayden P. Smith, Samantha Hennen, Morgan J. Willis, Samantha J. Ziegler, Vivek S. Bharadwaj, Kelley W Moremen, Maria J. Peña, Yannick J. Bomble and Breeanna R. Urbanowicz (2023) Functional characterization of glycosyltransferases in duckweed to enable predictive biology. presented at American Society of Plant Biology (ASPB), Savannah Convention Center, August 4-9, 2023.
2. **Tasleem Javaid** and Ahmed Faik (2022) Xylan synthesis mechanism: matching partners. presented at Student Expo, Ohio University, April 8, 2022.
3. Helena Littler, Akshayaa Venkataraghavan, Matrika Bhattarai, **Tasleem Javaid**, and Ahmed Faik (2017) Use of CRISPR/Cas9 technology to determine the function of three glycosyltransferases possibly involved in xylan biosynthesis in rice. presented at Student Expo, Ohio University, April 8, 2022.
4. Mohsin Ali Nasir, Ramin Mehrani, **Tasleem Javaid**, Sumit Sharma, Justin Holub, and Ahmed Faik (2017) Predicting protein-protein interactions between glycosyltransferases. presented at Student Expo, Ohio University, April 8, 2022.
5. **Tasleem Javaid** and Ahmed Faik (2019) Gene association network-(GAN) guided approach to study xylan synthesis in grasses. presented at Cell Wall (XV) meeting, Cambridge, UK, July 7, 2019.
6. **Tasleem Javaid** and Ahmed Faik (2019) Genome Editing to determine the physiological function of xylan during rice grain development. presented at Student Expo, Ohio University, April 11, 2019.
7. **Tasleem Javaid** and Ahmed Faik (2018) Multi-faceted approach to characterize Xylan Synthase Complexes (XSCs) in Rice. presented at American Society of Plant Biology (ASPB), Montreal, Canada, July 13, 2018.
8. Ahmed Faik, **Tasleem Javaid,** Yadi Zhou and Michael Held (2018) Investigating the assembly and trafficking of Xylan Synthase Complexes (XSCs) in Rice. presented at American Society of Plant Biology (ASPB), Montreal, Canada, July 13, 2018.
9. **Tasleem Javaid** and Ahmed Faik (2018) Approaches towards Characterization of Xylan Synthase Complexes (XSCs) in Rice. presented at Student Expo, Ohio University, April 4, 2018.
10. Kyle Beck, **Tasleem Javaid** and Ahmed Faik (2018) Implementing CRISPR/Cas9 Technology to Investigate Xylan Biosynthesis in Rice. presented at Student Expo, Ohio University, April 4, 2018.
11. **Tasleem Javaid** and Ahmed Faik (2018) Approaches towards Characterization of Xylan Synthase Complexes (XSCs) in Rice. presented at Midwest ASPB meeting, Iowa State University, Iowa (US) from March 3-4, 2018.
12. **Tasleem Javaid** and Ahmed Faik (2017) Characterization of Xylan Synthase Complexes (XSCs) in Rice cultivar. presented at Graduate Research Symposium, Ohio University, September 22, 2017.
13. **Tasleem Javaid** and Ahmed Faik (2017) Characterization of Xylan Synthase Complexes (XSCs) in Rice cultivar. presented at Norman S. Cohn Symposium, Ohio University, September 9, 2017. presented at Student Expo, Ohio University, April 4, 2017.

14. Kyle Beck, Caleb Cole, **Tasleem Javaid** and Ahmed Faik (2017) Developing CRISPR/Cas9 as a functional genomics tool to study cell wall biosynthesis in rice (*Oryza sativa*). presented at Student Expo, Ohio University, April 4, 2017.

EXHIBITIONS

2017-2021	Ohio University Student Expo, Ohio University
2018	Midwest ASPB Conference, Iowa State University, Iowa
	American Society of Plant Biology 2018(ASPB) Conference, Montreal, Canada
2019	Cell Wall (XV) meeting 2019, Cambridge, UK
2022	Talk at IX Cell Wall Research Conference, June 13-17, 2022, East Lansing, Michigan
2023	American Society of Plant Biology (ASPB) Conference, August 4-9, 2023, Savannah Convention Center, Savannah, Georgia.

HONORS AND AWARDS

Awarded 2nd prize (75$) poster presentation at student Expo, Ohio University, April 8, 2022.
Awarded College of Arts and Sciences Travel Grant ($500) at Ohio University to attend:

- in Summer 2018- the Plant Biology 2018 conference held at Montreal, Canada from 14th July – 18th July 2018
- in Summer 2019 - XV Cell Wall meeting held at Cambridge, UK from 7th July – 12th July 2019

Awarded American Society of Plant Biologists Travel Award ($150) for the Midwestern Section's Annual Meeting at Iowa State University in Iowa, on March 3-4, 2018.
Awarded Outstanding Teaching Assistant Award ($200), Department of Environmental and Plant Biology, Ohio University during the 2019-2020.
Awarded Student Enhancement Award ($7000), College of Arts and Sciences, Ohio University to conduct my doctoral research during the Spring 2019-2020
Awarded University Gold Medal in BS at Department of Botany, University of the Punjab, Lahore, Pakistan
Awarded Badge topper certificate in MS at Department of Botany, University of the Punjab, Lahore, Pakistan
Awarded Doctoral Program Co-ordination Committee (DPCC) Scholarship for BS and MS program (2008-2014)
Awarded Quaid-i-Azam Talent Scholarship, Government of the Punjab, Pakistan

TEACHING EXPERIENCE

Introduction to Cell Biology: for 1year (2014-2015) at Government College of Science, Lahore, Punjab, Pakistan
Introduction to Plant Biology: (2015-2016) at Government Post Graduate College for women, Higher Education department, Lahore, Punjab, Pakistan
BIOL 1010: Principles of Biology for 2 semesters (Fall 2016, Spring, 2017) at Environmental and Plant Biology, Ohio University.
PBIO 4500/5500: Grader for Biotechnology & genetic engineering (Fall 2021) at Environmental and Plant Biology, Ohio University.
PBIO 1140 Lab: Foundations of Plant Biology (Fall 2019) at Environmental and Plant Biology, Ohio University
PBIO 5240 Lab: Plant Physiology (Spring 2017, 2018, 2019, 2020) at Environmental and Plant Biology, Ohio University
PBIO 5010 Lab: Laboratory in Cellular and Molecular Plant Physiology (Spring 2018, 2020, 2022) at Environmental and Plant Biology, Ohio University

MENTORING

Trained and supervised Kyle Beck and Caleb Cole for their undergraduate research project in Faik lab, Fall 2017-2018.
Supervised Maria Harman (Undergraduate lab assistant), Fall 2023-Spring 2024.
Mentored Nathan Murray (Graduate student), a rotation student in Breeanna Urbanowicz Lab, Fall 2023.

SERVICE

Volunteer for organizing Plant Center Annual Retreat at Brasstown Valley Resort in Young Harris, Georgia on December 13-14, 2023.
Volunteer at Plant Science Saturday organized by ASPB (held at Savannah convention Center 2023) at Forsyth Farmers Market on August 5th, 2023.
Pakistan Student Association (PSA) at Ohio University, Athens, Vice President from Fall 2021 to Fall 2022
Served as a review committee member for College of Arts and Sciences, Graduate Student Research Funds Fall 2020.
Judging district science fair Spring 2018 & 2019 held at Clippinger, Ohio University, Athens, OH.
Judging posters for Ohio State University Plant Sciences Symposium Spring 2019
Judging middle school science fair Fall 2018 & 2019
Organization teamwork at student expo at Ohio University Spring 2019
Participating in teaching children at Morrison Gordon School, Athens, Ohio about plants on Earth Day, Summer 2019
Plant Biology Graduate Student Association (PGSA) Secretary from Fall 2019 to Spring 2021
Faik lab manager from 2017 to 2022.

PROFESSIONAL DEVEOLPMENT

Chemical Hygiene Training at Ohio University (May 2016)
Radiation Safety Training at Ohio University (July 2017)
Electronic Teaching Portfolios Training at Ohio University (November 2019)

MEMBERSHIP IN SCIENTIFIC SOCIETIES

Member of American Society of Plant Biologists (ASPB), USA (Since March 2018)
Member of National Academy of Young Scientists (NAYS), Pakistan (Since 2014)

REFERENCES

Dr. Breeanna Urbanowicz	Assistant Professor, Department of Biochemistry and Molecular Biologist at Complex Carbohydrate Research Center (CCRC), University of Georgia, Tel: 706-542-4479, breeanna@uga.edu
Dr. Ahmed Faik	Associate Professor, Department of Environmental and Plant Biology, Ohio University, Tel: 740-593-1121, faik@ohio.edu
Dr. Michael Held	Associate Professor, Department of Chemistry, Ohio University, Tel: 740-593-1751, held@ohio.edu