

# Ritesh GHOSH

Imperial College London, Department of Bioengineering, SW7 2AZ, London

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*Plant scientist specializing in plant molecular physiology, with 10+ years of experience in growing multiple plant species in a controlled environment.*

**Areas of expertise:** Plant mechanobiology, Stress priming, Plant epigenetics.

## Academic positions

- 06.2021 – Present Royal Society Newton International Fellow, Imperial College London, UK.
- 10. 2020 – 05.2021 Lawski Foundation Postdoctoral Fellow, Lund University, Sweden.
- 12.2017 – 07. 2020 Postdoc, INRAE/ Université Clermont Auvergne, PIAF lab, France.
- 09. 2016 – 08. 2017 Postdoc, Yeungnam University, South Korea.
- 10. 2009 – 04. 2011 Researcher, Bose Institute, India.

## Degrees

- 09. 2011 – 08. 2016 **Ph.D.** in *Molecular Genetics & Biotechnology*.  
Yeungnam University, South Korea.
- 09. 2007 – 09. 2009 **M. Sc.** in *Plant Molecular Biology & Biotechnology*.  
Bose Institute, University of Calcutta, India.
- 08. 2004 – 07. 2007 **B. Sc.** in *Botany (Honours), Chemistry, Zoology*.  
Scottish Church College, University of Calcutta, India

## TECHNICAL SKILLS

- **Molecular Biology & Physiology:** Nucleic acid isolation, PCR, Quantitative Real Time PCR, Chromatin immunoprecipitation (ChIP) assay, Nuclear protein isolation, Western blotting, Electrolyte leakage analysis, Photosynthetic pigment measurement, Photosynthetic performance analysis (MultispeQ), Antioxidant enzyme assay, ROS staining, Amino acid analysis by amino acid analyzer.
- **Others:** Various Open access bioinformatics and statistical analysis (t-test, ANOVA, Duncan's Multiple Range Test, SAS) tools.
- **Plant system used:** Arabidopsis, Poplar, Barley, Wheat, Oat, and Kenaf.
- **Hydroponic:** Barley in small scale.

## BRIEF DESCRIPTION OF DUTIES

- Conceive the idea and planning of the project.
- Performing experiments, data analysis and interpretation.
- Research project management.
- Research communication and publication.
- Planned procurement, setting up instruments and logistics.
- Collaborates with multidisciplinary teams.
- Setting up and managing a newly established plant growth facility.
- Chemical waste management.
- Supervising students for thesis work.

## SHORT TRAINING PROGRAM ATTENDED

2022: **Foundations in R** by Statistical Advisory Service (SAS), Imperial College London, UK.

2022: **Gas safety training** (Cryogenic Liquids and Liquid Nitrogen), Imperial College London, UK.

2022: **Public engagement for independent researchers**, Royal Society, UK.

## PUBLICATIONS Google Scholar

**WORK PERMIT:** Eligible to work in the UK. No sponsorship required.