

# Rajesh Kumar Natarajan

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## EDUCATION

### Ph.D. Candidate

Expected completion - August 2023

Institute for Plant Cell Biology and Biotechnology, Heinrich Heine Universität, Düsseldorf, Germany

### M. Sc, Plant Sciences

Oct 2018- July 2020

University of Bonn, Germany

### B. Tech, Genetic engineering

Grade: 7.983 out of 10, July 2014- May 2018

SRM Institute of Science and Technology, Kattankulathur, India

### Higher secondary school certification (Tamil Nadu state board)

Grade: 76.5%, June 2012- May 2014

Christ Matriculation School, Chennai, India

## PROJECTS

- **Screening of plant growth promoting rhizobacteria for antifungal activity against *Fusarium oxysporum*** - Department of Genetic Engineering, SRM Institute of Science and Technology, Chennai. (Journal of Environmental Biology, DOI: <http://doi.org/10.22438/jeb/40/2/MRN-850>) (July 2017)
- **Comparative analysis of *EDR1* promoter among three Linderniaceae species** – Institute for Molecular physiology and Biotechnology of Plants (IMBIO), University of Bonn (June 2018)
- **Assessing the role of TELOMERE REPEAT BINDING FACTORS through RNA-seq transcriptome profiling** – Max Planck Institute for Plant Breeding Research, Cologne, Germany (January 2020 – July 2020)

## EXPERIENCE

- Student Assistantship in **Institute for Molecular physiology and Biotechnology of Plants (IMBIO)**, University of Bonn. Oct 2018- July 2019
- Student Assistantship in **Max Planck Institute for Plant Breeding Research**, Cologne. Jan 2020 – July 2020

## TRAININGS AND INTERNSHIPS

- **Role of TRB1 in regulating Primary metabolism in *Arabidopsis thaliana*** - Max Planck Institute for Plant Breeding research, Cologne, Germany. Oct 2019 – Nov 2019
- **Analysis of *EDR1* promoter cis-elements involved in drought tolerance of *Craterostigma plantagineum*** - Institute for Molecular physiology and Biotechnology of Plants (IMBIO), University of Bonn, Germany. Oct 2018 - July 2019
- **Cloning of *CRY* Genes and Transformation in *Bacillus thuringiensis* by electroporation**- Sugarcane Breeding Institute (ICAR), Coimbatore, India. June 2017
- **Nanovesicle development and entrapment of phyto-antioxidants in niosome nanovesicle** - BioLim, Chennai, India. May 2015

## TECHNIQUES

Nucleic acids extraction, PCR, Cloning, RT- qPCR, Protein extraction and analysis by SDS-PAGE, Western blotting, Affinity Chromatography, Plasmid transformation by Particle bombardment (Gene Gun), Transposon mediated mutagenesis by bacterial conjugation, Confocal microscopy, R programming, NGS data assembly.

## CO-CURRICULAR ACTIVITIES

- Participated in **Indian Genetic Congress** - national level genetic conference organized by Department of Genetic Engineering, SRM university
- Participated in **41st Indian society of human genetics annual meeting and International Conference** - organized by ISHG and Vision Research Foundation
- Served as a resource person in '**Transposon Mediated Mutagenesis Workshop**' – training for undergraduate students organized by Department of Genetic Engineering, SRM University

## EXTRA-CURRICULAR ACTIVITIES

- I have a keen interest in drawing portraits and **writing articles** about recent researches in the field of plant science in my blog <https://thephytofictions.blogspot.com/>
- I also volunteer to organize and work in science events, recently I volunteered in **11<sup>th</sup> Bonner Wissenschaftsnacht & Wissenschaftszelt** held on May 2018 and organized **Indian Genetic Congress** held at SRM University in 2015

## LANGUAGE SKILLS

- Tamil: Native language
- English: Fluent (reading, writing, speaking)
- German: Beginner

## REFERENCES

1. **Prof. Dr. Markus Pauly** – Institute for Plant Cell Biology and Biotechnology, HHU  
Düsseldorf, Germany.  
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