

## SHREESHAIL BETAGERI M.Sc. (Agriculture) in Crop physiology

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### Professional summary

Dedicated Plant Physiology and Plant Science Specialist with over 8 years of research and industry experience in crop physiology, plant-microbe interactions, and field based agronomic innovation. Expert in designing and executing complex experiments to evaluate product efficacy, optimize biostimulants, and enhance crop yield and resilience. Known for translating scientific insight into practical, field ready solutions for sustainable agriculture.

### Contact Address

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### Correspondence address

Shreeshail Betageri  
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Yelhanka  
Bengaluru-560065  
Karnataka, India.

### Personal Data:

Date of Birth : 15-07-1993  
Sex : Male  
Nationality : Indian

### Languages Known:

- ✓ English
- ✓ Kannada
- ✓ Hindi

### Strength:

- ✓ Self Confidence
- ✓ Strategic management
- ✓ Innovative and Restorative
- ✓ Leadership and Hard working

### Interested Areas:

- ✓ Research & Development
- ✓ Product testing
- ✓ Quality Assurance
- ✓ Plant health management

### Academics

- ✓ 2015-2017  
M.Sc. (Agriculture) in Crop physiology, 84.40%  
University of Agricultural Sciences, Bengaluru, Karnataka
- ✓ 2011-2015  
B.Sc. (Agriculture) in Agriculture and Allied Sciences, 84.30%  
University of Agricultural Sciences, Dharwad, Karnataka

### Academic experience:

- ✓ M.Sc. Thesis title: "Effect of seasonal variation on nutritional quality of commonly cultivated rice varieties across India", is focused on evaluating the influence of Genotype and Environment (G×E) interactions on the nutritional quality of 54 rice varieties grown over two consecutive seasons.
- ✓ Within the B.Sc. Agriculture program, I specialize in Natural Resource Management (NRM), which emphasizes the effective and sustainable utilization of natural resources, including land, water, soil, and biological resources.

### Employment History

- ✓ 2022–Present –Technical Services Associate (Ciel HR – External)  
Novozymes (Novonesis) South Asia Pvt. Ltd., Bengaluru
- ✓ 2020–2022 – Research Associate (Scillz HR – External)  
Novozymes (Novonesis) South Asia Pvt. Ltd., Bengaluru
- ✓ 2018–2020 – Research Intern  
Novozymes (Novonesis) South Asia Pvt. Ltd., Bengaluru

### Core Competencies

- ✓ Biological Solutions Development
- ✓ Agronomy Field Trials
- ✓ Technical Documentation & Data Interpretation
- ✓ Regulatory Compliance & Quality Standards
- ✓ Cross-Functional Collaboration (R&D, Marketing, Field Teams)
- ✓ B2B Partnerships & Product Validation
- ✓ Research and Development Farm Management & Operations

### Professional Experience

#### **1. Technical Services & Product Support**

- ✓ Delivered technical expertise on biological agricultural products (biofertilizers, LCOs, and biostimulants) to promote sustainable and resource efficient farming practices.
- ✓ Served as a strategic liaison between R&D, marketing, and field teams to ensure efficient product development, validation, and market launch.
- ✓ Ensured regulatory compliance by aligning biological products and field applications with national and international standards.
- ✓ Prepared and maintained comprehensive technical documentation, including research protocols, field trial reports, product manuals, and technical presentations.

**Instrumentation & Analytical Competencies in Plant Research:**

- ✓ Atomic Absorption Spectroscopy (AAS)
- ✓ Chlorophyll Meter
- ✓ Dew Point Potentiometer
- ✓ Field Spectroradiometer (Field Spectra Instrument)
- ✓ Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
- ✓ Infrared Gas Analyzer (IRGA)
- ✓ Infrared Thermometer
- ✓ Leaf Porometer
- ✓ Microscopes
- ✓ Plant vitality and P-spectra
- ✓ Spectrophotometer
- ✓ Tensiometers & Soil Moisture Probes
- ✓ X-ray fluorescence analyzer (XRF)

**Software:**

1. ImageJ
  - ✓ Leaf area and Canopy
  - ✓ Root length and area
  - ✓ Seeds, Stomata count
  - ✓ Germination % and Growth rate
  - ✓ Disease scoring
2. WinRHIZO
  - ✓ Total root length, surface area, volume, average diameter, tip count

**Reference:**

1. Jalendra Kumar H G  
Technical Services Manager  
Plant Health, India  
Novozymes South Asia Pvt. Ltd.  
Whitefield, Bangalore, India  
Mobile: +91 9513336732  
E-mail: [jkhg@novozymes.com](mailto:jkhg@novozymes.com)
2. Dr. A.G.Shankar  
Professor and Head  
Department of Crop Physiology  
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- ✓ Collaborated with B2B partners and collaborators for joint product evaluations, technical validations, and business development in the biological solutions sector.
- ✓ Supported new product development through data driven field insights, performance analysis, and customer feedback, driving innovation and continuous improvement.

**2. Research & Product Development**

- ✓ Designed and executed research projects focused on enhancing plant nutrition, growth, and development to optimize biomass, crop yield, and stress resilience.
- ✓ Conducted studies on plant-microbe interactions, including PGPRs, signaling molecules (LCOs), and mycorrhizal associations to improve plant health and productivity.
- ✓ Evaluated emerging agricultural biosolutions and technologies to determine their mode of action (MOA) and efficacy under diverse environmental conditions.
- ✓ Developed and optimized experimental protocols for quantifying plant growth parameters and physiological traits in both controlled and open-field environments.
- ✓ Established high-throughput assays for assessing antimicrobial activity of enzymes and pesticide chemistries against plant disease organisms (enzyme biocontrol).

**3. Field Trials & Agronomy Management**

- ✓ Coordinated and executed multi-locational agronomy field trials across varied agroclimatic zones and cropping systems in collaboration with partner companies and farmers.
- ✓ Successfully managed a 10 acre R&D farm station, conducting annual evaluations of 80-100 open field formulations and 300 - 400 polyhouse based seedling pot trials, delivering robust, data driven insights to advance commercial product pipelines.
- ✓ Oversaw farm operations, workforce coordination, and machinery handling, ensuring timely and cost-effective resource utilization.
- ✓ Handled diverse crop portfolios including major field crops (Soybean, Groundnut, Corn, Paddy, Wheat, Sugarcane, Cotton) and vegetable crops (Capsicum, Chilli, Tomato, Cabbage, Beans, Eggplant, Cucumber, Okra, Potato, Onion).
- ✓ Generated robust, data-driven insights to support product performance validation, commercialization decisions, and agronomic recommendations.

**Conferences and Trainings programs:**

- ✓ Presented a poster at the National Conference of Plant Physiology, held at the Department of Plant Physiology, GKVK, Bengaluru.
- ✓ Professional delegate at the 107th Indian Science Congress, held at Bengaluru.
- ✓ Attended national webinar on 'Phenomics in Plant Physiology', organized by Sri sri university, Association of Rice Research workers, and ICAR-NRRI, Cuttack, Odisha.
- ✓ Professional delegate at the 8th Asian PGPR Society for Sustainable Agriculture National Conference on "Beneficial Microbes for Integrated Plant Health Management", held in Bengaluru.