

# Sindura K. P.

ASSISTANT PROFESSOR, KERALA AGRICULTURAL UNIVERSITY

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## Current Position

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- **Assistant Professor**  
Department of Molecular Biology and Biotechnology  
College of Agriculture, Vellayani  
Kerala Agricultural University  
2019 - Present

## Education

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- **PhD in Biotechnology - Neurobiology and Genetics Division**  
Rajiv Gandhi Centre for Biotechnology, Trivandrum, India  
2015 - 2022
- **Bachelors-Masters (Integrated degree) in Biotechnology**  
College of Agriculture, Kerala Agricultural University, Trivandrum, India  
2009 - 2014

## Awards and Fellowships

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- **Best paper presentation award** - National Seminar on Phytochemistry and Translational Research organized by Kerala Academy of Science (Guide of Ms. Bhagya Unni).  
November 2023
- **Mentor of State Level Winning Team** - 'Young Innovators Programme 2023' under the theme 'Innovation, Collectives and Cooperatives'.  
August 2023
- **Best paper presentation award** - Genomics session held as part of the International seminar on 'Plant Chemistry, Gene Prospecting and Clinical Biology' organized by Kerala Academy of Science and Department of Chemistry, Mar Ivanious College, Thiruvananthapuram (Major advisor of Ms. Aryakrishna)  
November 2022
- **Best presentation award** - Genomics and Health theme of the 'International webinar on Advances in Genomics and Gene technology' organized by Inter University Centre for Genomics and Gene Technology, Department of Biotechnology, University of Kerala.  
March 2021
- **Best oral presentation** - National Seminar on Conspectus of genes, genetics and genomics - Government Arts College, Thycaud, Trivandrum.  
Nov 2019
- DST funding to attend **Basic and Advanced Proteomics workshop** - IIT Bombay.  
Sept-Oct 2019
- IBRO fellowship to attend **RIKEN CBS Summer Program 2019** on Neurotechnology - Understanding the brain in health and disease - RIKEN, Japan  
July 2019
- **EMBL Corporate Partnership Programme** Travel Award to attend EMBL Whole Transcriptome Data Analysis Workshop at Heidelberg, Germany  
June 2018
- **Best Poster** award at 2nd International Conference on Founder Populations - The Landscape of Genetic variants in Asian Founder Populations from near to far east at Kochi, India.  
Nov 2017
- **National Eligibility Test for Lectureship** conducted by Council of Scientific and Industrial Research.  
June 2016
- **252nd rank in Graduate Aptitude Test in Engineering** in Biotechnology stream.  
March 2016
- **Junior Research Fellowship** for pursuing PhD from Department of Biotechnology, India.  
July 2015
- **Biotech Industrial Training Programme** sponsored by Biotech Consortium India Limited.  
Dec 2014-May 2015
- **National Eligibility Test for Lectureship** conducted by Agricultural Scientists Recruitment Board.  
March 2015

## Publications

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1. **Sindura, K. P.**, & Banerjee, M. (2019), An Immunological Perspective to non-syndromic Sensorineural Hearing Loss, *Frontiers in Immunology* 10:2848.
2. Arya, K., **Sindura, K. P.**, Alex, S., & Soni, K. B. (2022), Bioinformatics tools for marine-derived chemotherapeutic drug discovery and designing, *Informatics Studies* 9 (3), 7-24.
3. Dongare, M. D., Alex, S., Soni, K. B., **Sindura, K. P.**, Nair, D. S., Stephen, R., & Jose, E. (2023). Cross-species transferability of IRAP retrotransposon markers and polymorphism in black pepper (*Piper nigrum* L.), *Genetic Resources and Crop Evolution* 70, 2593-2605.

- Unni, B., **Sindura, K. P.**, Alex, S., & Soni, K. B. (2023). Biological Databases on Medicinal Plants: A Review, *Informatics Studies*, 10(2), 47-60.
- Vijayan, N., Alex, S., Soni, K., **Sindura, K. P.**, Sarada, S., & Dongare, M. D. (2023). Induction of Embryogenesis in Anthers of *Capsicum annuum* var. Arka Meghana, *Mysore Journal of Agricultural Sciences*, 57(1) 186-196.
- S., N.A., Thara, S.S., Soni, K.B., **Sindura K.P.**, & P. K. J. (2023). Expression profiling of laccase and  $\beta$ -glucan synthase genes in *Pleurotus ostreatus* during different developmental stages, *Molecular Biology Reports* 50, 7205-7213.
- Devika, P. P., Alex, S., Soni, K. B., **Sindura, K. P.**, Ayisha, R., & Manju, R. V. (2024). Nano-PCR for the early detection of tomato leaf curl virus, *3 Biotech*, 14, 5.

## Popular articles

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- Pramod A. Pimpale, Swapna Alex, Soni K. B., **Sindura K. P.** & Smitha Bhasi (2023) Artificial Intelligence in Agriculture, *Bio. Res. Today*. 5(3):255-257

## Teaching and Mentoring

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- Genomics and Proteomics
- Techniques in Biotechnology
- Plant tissue culture and its applications
- Introduction to Biotechnology
- Immunology
- Stem cell and Tissue engineering
- Clinical Biotechnology

### Mentoring M.Sc. students

Ongoing : 3 Completed : 3

## Research Projects

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### Network project on breeding vegetable crops for yield and resistance to diseases

KERALA AGRICULTURAL UNIVERSITY, INDIA

*Principal Investigator*

*Dec 2020 - Present*

### Evaluation of promising cytotoxic plant extracts for antiproliferative potential and standardization of agrotechnology for these selected crops for yield and metabolic accumulation

KERALA AGRICULTURAL UNIVERSITY, INDIA

*Co-Investigator*

*Dec 2021 - Present*

### Immunogenetics of Non-Syndromic Hearing loss Ph.D. in Biotechnology with specialization in Genetics

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY, TRIVANDRUM, KERALA, INDIA

*Guide: Dr. Moinak Banerjee*

*July 2015 - Present*

### Anther culture studies in Tomato

I AND B SEEDS PVT. LTD., BANGALORE, INDIA

*Guide: Dr. M. G. Purushothama*

*Dec 2014 - May 2015*

### Establishment of in vitro root cultures of sarsaparilla (*Hemidesmus indicus* L.) Masters Thesis - M.Sc. (Integrated) in Biotechnology

JAWAHARLAL NEHRU TROPICAL BOTANIC GARDEN AND RESEARCH INSTITUTE, INDIA

*Guide: Dr. K. Satheeshkumar*

*Oct 2013 - Nov 2014*

## Memberships

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- Indian Society of Human Genetics (ISHG) - Life time member
- Association for the promotion of DNA Fingerprinting and other DNA Technologies (ADNAT) - Life time member

## Administrative Responsibilities

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- Technical cell member of College of Agriculture, Vellayani
- Placement cell member of College of Agriculture, Vellayani