

Dr. Janesh Kumar Gautam, PhD

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EDUCATIONAL QUALIFICATIONS

➤ **PhD--Biotechnology**

School of Life Sciences, Jawaharlal Nehru University, New Delhi

➤ **MSc -Biotechnology**

School of Biotechnology, Jawaharlal Nehru University, New Delhi

➤ **BSc- Biotechnology**

Department of Biotechnology, Jamia Millia Islamia, New Delhi

RESEARCH PROJECTS as PRINCIPAL INVESTIGATOR

- Development and validation of CRISPR-Cas integrated Loop-Mediated Isothermal Amplification diagnostic test for the rapid detection of antibiotic- resistant *Klebsiella pneumoniae*
- Identification of oral cancer biomarkers from saliva for the diagnosis of early stages of oral cancer
- Development of a Nanoparticle-Based Lateral Flow Assay for Point-of-Care Diagnosis of Multidrug-Resistant Tuberculosis
- Pan-India antigenic characterization of dengue viruses: Early warning signal for a potential pandemic
- Optimizing oral cancer screening through capacity building of Healthcare workers of Health and Wellness Centres of districts of Rajasthan- An Implementation Research

PUBLICATIONS

1. Praveen Kumar Anand, Devanshi Patel, Ghisaram Dewasi & **Janesh Kumar Gautam** . Challenges and Barriers in Implementation of National Tuberculosis Elimination Program Guidelines at Nutrition Rehabilitation Centers in India: A Systematic Review. *J Epidemiol Glob Health* (2026). <https://doi.org/10.1007/s44197-026-00538-7>
2. **Gautam, J. K.**, Anand, P. K., & Kumari, R. (2026). Disparities in Healthcare Seeking and Treatment Outcomes among Tuberculosis-Human Immunodeficiency Virus Comorbidity Cases: A Case Series from Jaipur, Rajasthan, India. *Journal of Public Health and Primary Care*, 7(1), 77–80. https://doi.org/10.4103/jphpc.jphpc_34_25
3. Anand PK, Patel D, Lata S, **Gautam JK**, Chaudhary M, Singh M, Soni P, Kabra SK, Babu BV. Factors associated with pulmonary TB in malnourished children admitted to rehabilitation centres. *Int J Tuberc Lung Dis*. 2026 Jan 2;30(1):21-26. doi: 10.5588/ijtld.25.0338. PMID: 41482617
4. Gazta, P., **Gautam, J.**, Thakor, M. *et al.* Role of the primary healthcare providers in sickle cell disease management: a scoping review. *J Community Genet* **17**, 35 (2026). <https://doi.org/10.1007/s12687-026-00867-x>
5. **Janesh Kumar Gautam** , Praveen Kumar Anand, Mahendra Chouhan, Bontha V. Babu (2025). *Capacity building of Community Health Officers for optimizing the screening and early diagnosis of Oral Cancer in Jodhpur, Rajasthan, India*. *Scientific Reports*. DOI- 10.1038/s41598-025-00225-w (**I.F-4.3**).
6. **Janesh Kumar Gautam** , S.S. Mohanty, Bontha V. Babu (2025). *Prevalence and determinants of Oral Potentially Malignant Disorders in Western Rajasthan*. DOI- 10.1038/s41598-025-98096-8 *Scientific Reports*. (**I.F-4.3**)
7. **Janesh Kumar Gautam**, Anjali Thanvi, Purushotam Soni, Praveen K. Anand (2025). *Estimation of the Proportion and Determinants of Diabetes Mellitus Among Notified Tuberculosis Patients in Jaipur, Rajasthan, India*. *Cureus Journal of Medical Sciences*. DOI- 10.7759/cureus.80319. (**I.F-1.1**).
8. Sheilina Choudhary, Prince Kumar, Suman Sundar Mohanty, Praveen Kumar Anand and **Janesh Kumar Gautam**  (2025). *Molecular docking of Pyocyanin from Pseudomonas aeruginosa with NADPH oxidase and Toll-like receptor 4 : Exploring the Link Between Oral Microbiome and Oral Cancer Pathogenesis*. DOI- 10.1101/2025.08.24.671957
9. Mahendra Thakor, **Janesh Kumar Gautam**, Ansuman Panigrahi, Dharmendra Garasiya, Shankar L Brhamnia, Suman Sundar Mohanty (2025). *Operational Feasibility of Point-of-Care Testing for Sickle Cell Disease in Resource-Limited Settings of Tribal Sub-Plan Region of India*. *Diagnostics*. DOI- 10.3390/diagnostics15030348. (**I.F-3.1**)
10. Anand Nishad, **Janesh Kumar Gautam**, Ishu Agarwal, Ashis Kumar Nandi. (2024). *Immune Priming Promotes Thermotolerance, Whereas Thermopriming Suppresses Systemic Acquired Resistance in Arabidopsis*. DOI- 10.1111/pce.15364. (**I.F-7.6**)
11. Mittal, D., **Gautam, J.K.**, Varma, M., Laie, A., Mishra, S., Behera, S. Vadassery J. (2024) *External jasmonic acid isoleucine mediates amplification PEPR and jasmonate-based immune signalling*. DOI- 10.1111/pce.14812. (**I.F-7.6**)
12. D Singh, V Patil, R Kumar, **JK Gautam**, V Singh, AK Nandi. (2023) *RSII/FLD and its epigenetic target RRTF1 are essential for retaining infection memory in Arabidopsis thaliana*. DOI- 10.1111/tpj.16252 (**I.F-7.1**)
13. **Janesh Kumar Gautam**, Mrunmay Kumar Giri, Deepjyoti Singh, and Ashis Kumar Nandi (2021). *MYC2 influences salicylic acid biosynthesis and defense against bacterial pathogens in Arabidopsis thaliana*. DOI- 10.1111/pp1.13575. (**IF-6.4**)
14. Vijayata Singh, Deepjyoti Singh, **Janesh Kumar Gautam**, Nandi, A.K. (2019). *RSII/FLD is a positive regulator for defense against necrotrophic pathogens*. DOI- 10.1016/j.pmpp.2019.04.005. (**IF-2.7**)
15. **Janesh Kumar Gautam** and Ashis Kumar Nandi (2018). *APD1, the unique member of the Arabidopsis AP2 family influences systemic acquired resistance and ethylene-jasmonic acid signaling*. DOI- 10.1016/j.plaphy.2018.10.026. (**IF-6.5**)

16. Mrunmay Kumar Giri¹, **Janesh Kumar Gautam**¹, V. prasad, Sudip Chattopadhyay, and Ashis Kumar Nandi (2017) [**1= equal contribution**]. *MYC2 modulates phenotype, disease defense but not ABA signaling*. DOI-10.1007/s12038-017-9703-8. (**IF-2.9**)
17. Bhattacharjee, L, Singh, D, **Janesh Kumar Gautam** and Nandi, A.K. (2017). *Arabidopsis thaliana serpins AtSRP4 and AtSRP5 negatively regulate stress-induced cell death and effector- triggered immunity induced by bacterial effector AvrRpt2* DOI-10.1111/ppl.12516. (**IF-6.4**)
18. Giri, M.K., Swain, S., Singh, S., **Janesh Kumar Gautam**, Singh, N., Bhattacharjee, L., and Nandi, A.K. (2014). *The Arabidopsis thaliana At4g13040 gene, a unique member of the AP2/EREBP family, is a positive regulator for salicylic acid accumulation and basal defense against bacterial pathogens*. DOI-10.1016/j.jplph.2013.12.015. (**IF-4.3**)

AWARDS AND FELLOWSHIPS

- **SERB-NPDF** PostDoc fellowship.
- **CSIR-RA** PostDoc fellowship.
- **UGC-DS Kothari** PostDoc fellowship
- **International travel grant** from **SERB-DST** to attend ASPS conference 2019 in Melbourne, Australia.
- **Foreign travel grant** from **CSIR** to attend IPMB Conference 2018 in Montpellier, France.
- **DBT Travel grants** to attend the GRC Conference 2018 in New Hampshire, USA.
- **CSIR Research fellowship** (2011-2018) from CSIR, India to pursue Ph.D.
- **DBT Fellowship** (2009-2011) from DBT, India in MSc. Biotechnology
- **GATE-Biotechnology** (2010,2011 and 2012)

INTERNATIONAL CONFERENCES

- Poster Presentation in “**ASPS- 2019**” at Melbourne, Australia.
- Poster Presentation in “**IPMB-2018**” at Montpellier, France.
- Poster presentation in “**IPCC-2015**” at New Delhi, India.
- Oral presentation in “83rd Annual meeting of **SBC(I)-2014** and symposium on evolution: Molecules to life” held at Odisha, India