

Dr.LavanyaTayi

Education, Teaching& Research Experience

M.Sc. (2008) M. Sc in Biochemistry from Osmania University

Ph. D. (2017) in Life Sciences from CSIR-CCMB

Research Associate (DAE) 2017- 2018 at CPMB, OU,

Inspire Faculty Award (DST) 2018- Till date

Research funding & Publications

Total funding as PI: approx. Rs. 35.00 Lakhs(DST Inspire Faculty Project from 2018)

Total No. of Publications: 5

Scholarships, Fellowships& Memberships

Young Scientist Award by the Telangana Academy of Sciences (2018)

Inspire Faculty Award (DST) 2018- till date

Research Associate (DAE) 2017- 2018

Senior Research Fellowship (ICMR) 2011 to 2014

Junior Research Fellowship (ICMR) 2009 to 2011

FiveSelect Publications

1. Roy, Sharmila, Pragya Mittal, LavanyaTayi, SahityaBondada, Malay K. Ray, Hitendra K. Patel, and Ramesh V. Sonti. "Xanthomonasoryzaepv. oryzaeExoribonuclease R Is Required for Complete Virulence in Rice, Optimal Motility, and Growth Under Stress." *Phytopathology*[®] 112, no. 3 (2022): 501-510.
2. Nidumukkala, Sridevi, LavanyaTayi, Rajani Kant Chittela, Dashavantha Reddy Vudem, and Venkateswara Rao Khareedu. "DEAD box helicases as promising molecular tools for engineering abiotic stress tolerance in plants." *Critical reviews in biotechnology* 39, no. 3 (2019): 395-407.
3. Tayi, Lavanya, Sushil Kumar, RajkanwarNathawat, Asfarul S. Haque, Roshan V. Maku, Hitendra Kumar Patel, RajanSankaranarayanan, and Ramesh V. Sonti. "A mutation in an exoglucanase of Xanthomonasoryzaepv. oryzae, which confers an endo mode of activity, affects bacterial virulence, but not the induction of immune responses, in rice." *Molecular plant pathology* 19, no. 6 (2018): 1364-1376.
4. Tayi, Lavanya, Roshan V. Maku, Hitendra Kumar Patel, and Ramesh V. Sonti. "Identification of pectin degrading enzymes secreted by Xanthomonasoryzaepv. oryzae and determination of their role in virulence on rice." *PLoS One* 11, no. 12 (2016): e0166396.

5. Tayi, Lavanya, RoshanMaku, Hitendra Kumar Patel, and Ramesh V. Sonti. "Action of multiple cell wall-degrading enzymes is required for elicitation of innate immune responses during *Xanthomonasoryzaepv. oryzae* infection in rice." *Molecular Plant-Microbe Interactions* 29, no. 8 (2016): 599-608.