

STATEMENT OF MERITS/AWARDS/SCHOLARSHIPS

AWARDS

- Recipient of the Women Leading Initiative, IIT Madras – 2021-22
- Recipient of the Winter Research Scholarship at the University of Queensland, Australia for a period of 8 weeks from May-July, 2015
- Recipient of the DST-INSPIRE Scholarship on being among the top 0.1 % of the state in Class 12 examinations – 2011 to 2016
- Qualified GATE – 2015
- Invited to participate in GSLV Awards at ISRO for being the district topper in CBSE Class 10 - 2009

PATENTS

- A method for the overproduction of camptothecin in engineered cell lines of *Nothapodytes nimmoniana* (Provisional Application No. 202241077443)
- A bioprocess to produce camptothecin from *in vitro* cultures of *Nothapodytes nimmoniana* (Provisional Application No. 202341002091)

PUBLICATIONS

- Murali, S., Ibrahim, M., Rajendran, H., Shagun, S., Masakapalli, S. K., Raman, K., & Srivastava, S. (2023). Genome-scale metabolic model led engineering of *Nothapodytes nimmoniana* plant cells for high camptothecin production. *Frontiers in Plant Science*, 14, 1207218. <https://doi.org/10.3389/fpls.2023.1207218>
- Book chapter - Murali S, Rajendran H, Srivastava S (2021) Plant Cell Biofactories as *in vitro* production platforms of the anti-cancer drug Camptothecin. In: Malik S (ed) Exploring plant cells for the production of compounds of interest. Springer International Publishing. https://doi.org/10.1007/978-3-030-58271-5_2

CONFERENCES

- **Oral presentation** - Metabolic Pathway Analysis Conference (MPA 2023) organized by MPA2023 held at Seoul, Republic of Korea between Jul 24-27, 2023.
- **Poster presentation** - 8th Conference on Constraint Based Reconstruction and Analysis (COBRA 2022) organized by the American Institute of Chemical Engineers (AIChE) held at Galway, Ireland between Sep 28-30, 2022.
- **Oral presentation** - International Conference on Plant Systems Biology & Biotechnology (ICPSBB) Venue & Date - held on hybrid mode at Golden Sands Resort, Bulgaria (attended virtually) between June 14 - June 17, 2021.
- **Oral presentation** - International Conference on Bioengineering solutions for Healthcare, Food, Energy & Environment (BSHFEE) held on hybrid mode at IIT Jodhpur (attended virtually) between April 9 - April 10, 2021.
- **Poster presentation** - 4th International Conference on Plant Synthetic Biology, Bioengineering and Biotechnology (PlantSynBio- AIChE), held virtually between Oct 30-Nov 1, 2020.