

## Dr. Gopal ji Tiwari

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## Education

**Ph.D,** Science (2012 – 2016), Monash University, Sunway, Malaysia.

Thesis Title: Genetic determinants of rice bran oil quantity and quality: genomic, proteomic and transcriptomic approaches.

**Integrated M.Sc.,** Biotechnology and Bioinformatics (2004–2009), SRM University, Chennai, India.

Dissertation: Molecular diversity among Bt *cryIA* genes for toxicity to lepidopteran insect.

## Honours and Awards

- Awarded Platform Mobility Scheme scholarship (2015), Monash University, Clayton campus, Australia
- Awarded PhD scholarship (2012), Monash University, Malaysia
- CSIR Diamond Jubilee Research Interns Award (2009), CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India.

## Working Experience

- March 2021- Present, Senior Project Associate, National Botanical Research Institute, Lucknow, in project entitled “Characterization of boll weight (BW) QTL hotspots for cotton yield improvement”
- June 2018 – Feb 2021, Research Associate, National Botanical Research Institute, Lucknow in project entitled “Development of consensus genetic linkage map for *Gossypium* L. spp. with SNP markers and QTL analysis for fiber traits”
- May 2017 – June 2018, Research associate, Lincoln University College, Kolkata, India
- 2012 – 2016, Lab demonstrator, Monash University, Malaysia
- 13 September – 3 October 2015 visiting research scholar at the Proteomics facility, Monash University, Australia
- 2010-2011, Research Intern, Department of Biotechnology, Central Institute of Medicinal and Aromatic Plants (CSIR), Lucknow, India

## Publications

### Journals:

- Narayanan Manikanda Boopathi, **Gopal J. Tiwari**, Satya N. Jena, Nandhini Kemparaj, SRI SUBALAKHSHMI V K , Pilla Shyamala, Babita Joshi, Premalatha Nallathambi, Rajeswari S., 2022. Identification of stable and multiple environment interaction QTLs and candidate genes for fiber productive traits under irrigated and water stress conditions using intraspecific RILs of

*Gossypium hirsutum* var. MCU5 X TCH1218. *Frontiers in Plant Science* (IF:5.75) (**Accepted**)

- Shukla, R.P., **Tiwari, G.J.**, Joshi, B., Jena, S.N. and Tamta, S., 2021. Tightly Linked Molecular DNA Markers with High Predictive Trait Value: A Current Increasing Demand in the Breeding Program of Upland Cotton (*Gossypium hirsutum* L.). *International Journal Of Plant And Environment*, 7(02), pp.101-118. <https://doi.org/10.18811/ijpen.v7i02.01>.
- Shukla, R.P., **Tiwari, G.J.**, Joshi, B. *et al.* GBS-SNP and SSR based genetic mapping and QTL analysis for drought tolerance in upland cotton. *Physiol Mol Biol Plants* **27**, 1731–1745 (2021). <https://doi.org/10.1007/s12298-021-01041-y> (IF: 2.391)
- Das, S., **Tiwari, G.J.** & Ghosh, A., 2020 *In silico* analysis of new flavonoids from *Pongamia pinnata* with a therapeutic potential for age-related macular degeneration. *3 Biotech* **10**, 536. (IF: 2.406)
- Ghosh, A., **Tiwari, G.J.** & Panda, C.K., 2020. Role of radical quenching activity of dihydrocanaric acid in the treatment of cancer-experimental and theoretical. *3 Biotech* **10**, 25. (IF: 2.406)
- Ghosh, A. and **Tiwari, G.J.**, 2018. Role of nitric oxide-scavenging activity of Karanjin and Pongapin in the treatment of Psoriasis. *3 Biotech*, **8(8)**, p.338. (IF: 2.406).
- **Tiwari, G.J.**, Liu, Q., Shreshtha, P., Li, Z. and Rahman, S. 2016. RNAi-mediated downregulation of the expression of *OsFAD2-1*: effect on lipid accumulation and expression of lipid biosynthetic genes in the rice grain. *BMC Plant Biology*, **16:189**, doi: 10.1186/s12870-016-0881-6 (IF: 3.497).
- **Tiwari, G. J.**, Chiang, M. Y., De Silva, J. R., Song, B. K., Lau, Y. L., & Rahman, S. 2016. Lipase genes expressed in rice bran: LOC\_Os11g43510 encodes a novel rice lipase. *Journal of Cereal Science*, Vol **71**, pp. 43-52. doi:10.1016/j.jcs.2016.07.008 (IF: 3.616).
- Xin, Y. N., **Tiwari, G. J.**, Hue, S.M. and Rahman, S. 2015. Identification and expression analysis of putative SDP 1 homologue in rice (*Oryza sativa* L. subsp. Indonesia Black and BD 192). *Acta Biologica Malaysiana*, Vol **4(2)**: pp. 51-58
- Muniandy, K., Maan Al-Ajli, F.O., Xin Y.N., Mohd Hafiz, M. Y., **Tiwari, G.J.**, and Rahman, S. 2015. Genes involved in the biosynthesis of grain components in wheat and rice: characterization using molecular and cytogenetic techniques. *The Nucleus*. pp. 1-6. doi:10.1007/s13237-015-0149-9 (IF: 0.56).
- **Tiwari, G. J.**, Aumeeruddy, A. and Rahman, S. 2014. Improving the economic value of rice bran oil. *Journal of the Malaysian Society of Applied Biology*, Vol **43(2)**.43 (2). pp. 1-8. ISSN 0126-8643.

## Poster Presentation:

- Babita Joshi, Dipesh Kumar, **Gopal Ji Tiwari** and Satya Narayan Jena (16 June to 18 June 2019). Boll weight QTL hot spots identification and an initiation towards fiber yield improvement in Upland cotton. 3<sup>rd</sup> International Conference, GIASE-2019, Tribhuvan University, Kathmandu, Nepal. (**1<sup>st</sup> prize awarded**)
- Kiran, **Gopal Ji Tiwari**, Satya Narayan Jena and S.K. Barik (27 November to 30 November 2019). Genome size estimation of *Castanopsis* species (Fagaceae from Meghalaya, India using flow cytometry. ICPEP-6, CSIR- National Botanical Research Institute, Lucknow, India. (**2<sup>nd</sup> Prize awarded**)
- **Tiwari, G.J.**, Liu, Q., Shreshtha, P., Li, Z. and Rahman, S. (27 September to 1 October 2015). Transcriptomic analysis of *FAD-2-1* RNAi rice lines to identify additional genes that are affected in expression. ComBio2015, Melbourne Convention and Exhibition Centre, Melbourne, Australia.
- **Tiwari, G.J.**, Ching, J.J, Song B.K. and Rahman, S. (31st October- 1st November 2012). Identification of lipase genes and analysis of transcript accumulation. In abstract of 19th scientific meeting of MSMBB, University of Malaya, Malaysia.

## Oral Presentations at International / National Conferences

- Attended National Symposium on “Cotton Production Technologies in the Next Decade: Problems & Perspectives” at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha from 22-24 January, 2020
- Participated as volunteer in the 21<sup>st</sup> MSMBB annual scientific meeting 2014 held in Monash University, Malaysia on 1<sup>st</sup>- 3<sup>rd</sup> October 2014.
- Participated in sessional teaching essential program (STEP) held at Monash university Malaysia campus February 28, 2013.
- \*\* S.Rahman, E. Zaplin, **Tiwari, G.J.**, A. Aumeeruddy, X. Ng, V. Butardo, C. Blanchard, Q. Liu, Z. Li (27 October – 1 November, 2014). Genetic approaches to increase the value of oil from rice bran. Science at the 4th International Rice Congress (IRC2014). Bangkok, Thailand. (\*\* = co-author not attendee)
- **Tiwari, G.J.**, ‘Release of GM crops in India: Scientific & Political Perspectives’ on National Science Day 26th February 2010, CIMAP, Lucknow, India.

## Volunteer and Resource person

- Participated as a volunteer in Guinness world record during Indian International Science Festival 2018 held at Lucknow
- Participated as a resource person in the training programme on “Cytomolecular and Tissue Culture Techniques of Banana” (CTCTB) from 15-16 March 2019, at Department of Botany, Tripura University

## Software

- JoinMap
- QTL Cratographer
- GENE Mapper
- IcIMapping
- CLC Genomics workbench
- CLC Drug Discovery workbench