

Curriculum vitae

Name: Dr. SANJOG T. THUL

Position: Senior Scientist

Address: Environmental Biotechnology and Genomics Division, National Environmental and Engineering Research Institute (CSIR-NEERI), Nehru Marg, Nagpur-440020

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Education:

Degree	Subject	University	Year
Ph.D.	Biochemistry	University Lucknow, Lucknow, UP	2009
M.Sc.	Biotechnology	SRTM University, Nanded, MS	2000
B.Sc.	Bot., Zoo., Chem	RTMN University, Nagpur	1997

CSIR-UGC NET: Dec-1999; June-2000

Research Experience:

I am working in the area of plant and environmental biotechnology. This includes characterization of environmentally relevant and economical plants towards better understanding of metabolic activities as well as biotic and abiotic stress mitigation using molecular biology and plant tissue culture approach.

Visiting Researcher:

1. Visiting Researcher, Okayama University of Science, Okayama, Japan, 2014-15

Publications: Total - 29

(Last five years publications)

1. Sifau A. Adejumo, Sarita Tiwari, **Sanjay Thul** and Bijaya Ketan Sarangi. (July, 2019) Evaluation of Lead and chromium tolerance and accumulation level in *Gomphrena celosoides*: A novel metal accumulator from lead acid battery waste contaminated site in Nigeria. *International Journal of Phytoremediation*. DOI: 10.1080/15226514.2019.1633258.
2. **Sanjog T. Thul***, Bhavna Nigam, Sarita Tiwari and Ram A. Pandey (Jan, 2019) Arsenite-oxidation performance of microbes from abandoned iron ore mine. *Indian Journal of Biotechnology*. 18(1): 34-41.
3. Kalyani Kamde, R.A. Pandey, **Sanjog Thul**, Amit Bansiwala (Aug, 2018) Removal of arsenic by *Acidithiobacillus ferrooxidans* bacteria in bench scale fixed-bed bioreactor system. *Chemistry and Ecology*, 34(9): 818-838. DOI: 10.1080/02757540.2018.1504927
4. Mayur E. Magare, Nidhi Sahu, G. S. Kanade, Chandan S. Chanotiya, **Sanjog T. Thul***. (June, 2018) An integrated process of value addition to citrus waste and performance of Fenton process for its conversion to biogas. *Waste and Biomass Valorization*, DOI: 10.1007/s12649-018-0385-8
5. Rasika M. Potdukhe, Priyanka Bedi, Bijaya K. Sarangi, Ram. A. Pandey, **Sanjog T. Thul***. (Mar, 2018) Root transcripts associated with arsenic accumulation in hyperaccumulator *Pteris vittata*. *Journal of Biosciences*, 43(1): 105–115. DOI: 10.1007/s12038-018-9735-8

6. Kalyani Kamde, R. A. Pandey, **Sanjog T. Thul**, Rashmi Dahake, Vilas M. Shinde, Amit Bansiwala. (May, 2018) Microbially assisted arsenic removal using *Acidithiobacillus ferrooxidans* mediated by iron oxidation. **Environmental Technology & Innovation**, 10: 78–90. DOI: 10.1016/j.eti.2018.01.010
7. Shintaro Inoue, Toshiki Moriya, Rihito Morita, Keiko Kuwata, **Sanjog T. Thul**, Bijaya K. Sarangi, Yoshiko Minami. (2017) Characterization of UDP-glucosyltransferase from *Indigofera tinctoria*. **Plant Physiology and Biochemistry**, 121: 226-233. DOI: 10.1016/j.plaphy.2017.11.002,
8. Sarita Tiwari, Bijaya Ketan Sarangi, **Sanjog T. Thul**. (2016). Identification of arsenic resistant endophytic bacteria from *Pteris vittata* roots and characterization for arsenic transformation and plant growth promoting activity. **Journal of Environmental Management**. 180: 359–365. doi:10.1016/j.jenvman.2016.05.029
9. Sarita Tiwari, Bijaya Ketan Sarangi, Muhil Vannan Seralanathan, Saravanandevi Sivanesan, Dinesh Yadav, **Sanjog T. Thul** (2016) Determination of arsenic extraction by *Vetiveria zizanioides* (L.) Nash plant for phytoremediation application. **Chemistry and Ecology**. 32:1, 1-11. DOI 10.1080/02757540.2015.1109080
10. Rajendra Chandra Padalia, Ram Swaroop Verma, Amit Chauhan, Chandan Singh Chanotiya, **Sanjog Thul**. (2016) Phytochemical diversity in essential oil of *Vitex negundo* L. populations from India. **Records of Natural Products** 10(4): 452-464.
11. B. K. Sarangi, Y. Minami, **S. T. Thul**. (2015) RNA-Seq analysis for indigo biosynthesis pathway genes in *Indigofera tinctoria* and *Polygonum tinctorium*. **Genomics Data** 6: 212–213. DOI: 10.1016/j.gdata.2015.09.021; PMCID: PMC4664758
12. Yoshiko Minami, Bijaya Ketan Sarangi, **Sanjog Tarachand Thul**. (2015) Transcriptome analysis for identification of indigo biosynthesis pathway genes in *Polygonum tinctorium*. **Biologia**, 70(8): 1026–1032. DOI: 10.1515/biolog-2015-0131

Books/ Book chapters:

1. Lal Singh, Anoop Jaiswal, **Sanjog T. Thul** and Hemant J. Purohit (2017). Ecological and economic importance of bamboos. In: Dutt et al. (eds.), Professor M. U. Charaya Felicitation Volume, **Advances in Life Sciences**, Chapter 10, S. R. Scientific Publications, India, Pp 132-140.
2. **Sanjog T. Thul*** and Bijaya K. Sarangi (2015) Implications of Nanotechnology on Plant Productivity and Its Rhizospheric Environment. In: M.H. Siddiqui et al. (eds.) **Nanotechnology and Plant Sciences**, Chapter 3, Springer International Publishing, Switzerland, pp 37-53. DOI 10.1007/978-3-319-14502-0_3.

Participation in conferences / symposium / Training: 18

Genomic data submission:

Plant transcriptome: 03

Genes and ESTs: 84

Bacterial partial gene sequences: 53

Ongoing projects: 03

Completed projects: 07

Date: Sept, 2019

Place: Nagpur

(SANJOG T. THUL)