

BIOSKETCH



Dr. Sampath Kumar Banoth
M.Sc, M.Tech, PhD

+91 9391631235
sbanoth@bt.iitr.ac.in

OBJECTIVE: *Aspire to build a career in a leading institution of modern technology environment to explore and realize my full potential. I will do my best to be critical in a challenging creative environment.*

ACADEMIC PERFORMANCE

Year	Degree	Institute	Performance
2016 - 23	PhD Biotechnology	IIT Roorkee	76.82 %
2012 - 14	M.Tech Agricultural Biotechnology	IIT Kharagpur	78.50 %
2010 - 12	M.Sc Microbiology	Kakatiya university (campus)	66.12 %
2005 - 10	B.Sc Microbiology	Kakatiya university (sub campus Godavarikhani)	62.22 %

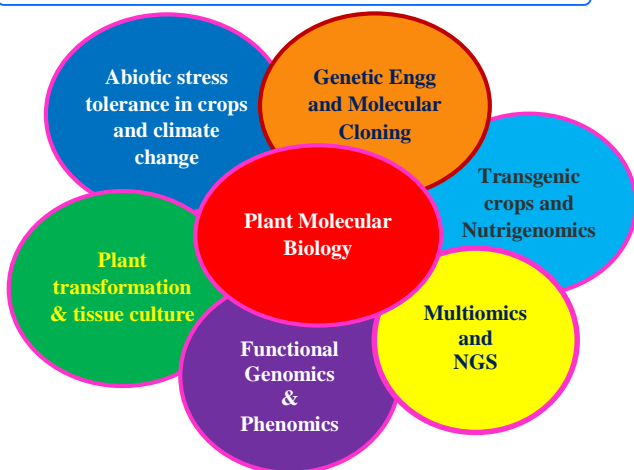
ACADEMIC PROJECTS

Effects of (LED) light emitting diodes on seedling growth of spinach oleracea and their impact on antioxidative properties.

Transcriptomics of developing meristems under terminal heat stress in contrasting cultivars of barley (*Hordeum Vulgare* L.) (Ph.D Topic)

Biofortification of Rice and wheat with Iron and vitamin B.

RESEARCH INTERESTS AND EXPERTISE



PUBLICATIONS

1. Banoth SK, Chauhan H, (2023) Transcriptional signatures in contrasting cultivars of Barley during early reproductive development of meristem. *Journal of Plant Growth Regulation*. <https://doi.org/10.1007/s00344-023-11017-9>
2. Bidya B Gupta, Banoth SK, Sumit K Mishra, Chauhan H, (2023) Iron and Zinc biofortification of rice by synergistic expression of *OsNAS2* gene with monocot (*Pennisetum glaucum*) and dicot (*Phaseolus vulgaris*) ferritins *Plant Physiology and Biochemistry*. <https://doi.org/10.1016/j.plaphy.2023.108195>
3. Banoth SK, Chauhan H, (2024) A review on Harnessing plant phenology to mitigate global climate change. (Under Preparation)

TECHINICAL SKILLS

Expertise in Molecular biological techniques, RtPCR, Molecular Cloning, PCR, (NGS) Next generation sequencing, Transcriptomics, analyzing RNA sequencing and statistical data analysis. Plant transformations, Plant tissue culture, and hands on experience in MATLAB, R Studio, SPSS, Excel, and Microsoft and google platforms.

Well versed in practices of plant molecular biology laboratory.

EXTRA CURRICULAR ACTIVITIES

- Public Speaking :** Participated in inter school and college competitions and won prizes in public speaking, essay competitions.
Won accolades in public speaking at school level (Debate, Extempore, and Declamation).
- Social work :** Participated actively in NSS Camp held at Kakatiya university campus Warangal,
Member of GYWS-an NGO run by students of IIT Kharagpur.
- Fine arts :** Won several accolades in painting, poster competitions held at inter school, levels.
- Leadership :** Have held the position of Class representative during schooling, graduation and post-graduation

POSITIONS OF RESPONSIBILITY

Organization	Period
Higher grade Biology teacher	Vishwa Bharathi high school, NTPC
Project Executive	Srijan India, Delhi
Project Manager	ALC India Ltd, Hyderabad

PERSONAL DOISER

: 14-09-1984 : Hindi, English, Telugu, And Lambadi

: Warangal : banoth01@gmail.com

: Spouse: Priyanka Kelothu, Daughter: Sahithya Kamala Devi Banoth

Dr. Sampath Kumar Banoth