

# ***Publications and Presentations***

## **Publications**

1. Patel JK, Archana G (2017) Diverse culturable diazotrophic endophytic bacteria from *Poaceae* plants show cross-colonization and plant growth promotion in wheat. Plant and Soil, doi: 10.1007/s11104-017-3244-7

### Manuscripts under communication

2. Nitrogen fixing, antibiotic producing *Streptomyces* spp. colonize above-ground plant parts and promote shoot growth in multiple healthy and pathogen-challenged cereal crops
3. Engineered production of 2,4-Diacetylphloroglucinol in diazotrophic endophytic bacterium *Pseudomonas* sp. WS5 and its beneficial effect in multiple plant-pathogen systems

## **Oral and Poster Presentations**

1. Diversity, characteristics and plant growth promoting effects of diazotrophic endophytic bacteria colonizing *Poaceae* family plants. Poster presented at micrope-2015, International Symposium on Microbe Assisted Crop Production Opportunities, Challenges & Needs held on 23<sup>rd</sup>-25<sup>th</sup> Nov **2015**, organized by FEMS microbiology and OGMBT, Vienna, Austria
2. Endophytic *Streptomyces* spp. from sorghum shows plant growth promotion and biocontrol activity in various plant-pathogen systems. Poster presented at 56<sup>th</sup> Annual conference, Association of Microbiologists of India (AMI) held on 7<sup>th</sup>-10<sup>th</sup> Dec **2015**, organized by Jawaharlal Nehru University, New Delhi
3. Identification of endophytic bacteria from various herbaceous family plants and their potential for plant growth promotion. Oral presentation at MSU, DBT-MSUB-ILSPARE Programme held on 28<sup>th</sup> September **2015**, on 3<sup>rd</sup> year anniversary of Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, organized by M. S. University of Baroda, Gujarat
4. PGPR potential of diazotrophic, endophytic *Streptomyces* spp. isolated from sorghum. Poster presented at National Workshop on Advances in PGPR Research held on 28<sup>th</sup> September **2015**, organized by Department of Mycology and Plant pathology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi
5. Cloning and expression of genes contributing to plant-beneficial functions in plant growth promoting diazotrophic endophytic and rhizosphere bacteria. Oral presentation at MSU,

- DBT-MSUB-ILSPARE Programme held on 30<sup>th</sup> September **2014**, on 2<sup>nd</sup> year anniversary of Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, M. S. University of Baroda, Gujarat
6. Diazotrophic endophytic bacteria from diverse plants: potential for plant growth promotion. Poster presented at MSU, Integrating Basic and Translational Research in Modern Biology held on 27<sup>th</sup>-28<sup>th</sup> December **2013**, on 50<sup>th</sup> year anniversary of Department of Microbiology and Biotechnology centre, M. S. University of Baroda, Gujarat, India
  7. Heterologous expression of *Pseudomonas protegens* Pf-5 *phlD* gene, encoding type III polyketide synthase for phloroglucinol production in various bacterial systems. Poster presented at 10<sup>th</sup> **BRSI**, International Conference on Advances in Biotechnology and Bioinformatics held on 25<sup>th</sup>-27<sup>th</sup> November **2013**, organized by Dr D. Y Patil Institute of Biotechnology and Bioinformatics, Pune, India
  8. Genetic modification of plant growth promoting bacteria for phloroglucinol production  
Poster presented at MSU, DBT-MSUB-ILSPARE Programme held on 3<sup>rd</sup> October, **2013** on 1<sup>st</sup> year anniversary of Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, M. S. University of Baroda, Gujarat
  9. One day National seminar on Expanding Horizons of Microbiology held on 17<sup>th</sup> Aug **2013** on 50<sup>th</sup> year anniversary of Department of Microbiology and Biotechnology centre, M. S. University of Baroda, Gujarat
  10. National Seminar on “Recent Developments in PGPR for Sustainable Agriculture held on 22<sup>nd</sup>-23<sup>rd</sup> October **2012** on 2<sup>nd</sup> Indian Group Meeting of Asian PGPR Society for Sustainable Agriculture at Department of Biochemistry, M. S. University of Baroda, Gujarat, India

## **Awards**

- Awarded the “**First Prize**” for best poster presentation at 10<sup>th</sup> BRSI Convention and International Conference held by Dr. D. Y. Patil Vidyapeeth, Pune, India on 25<sup>th</sup>-27<sup>th</sup> November, **2013**.
- Awarded the “**First Prize**” for best poster presentation at National Workshop on Advances in PGPR Research held by Department of Mycology and Plant pathology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi on 7<sup>th</sup> -8<sup>th</sup> October, **2014**.
- Awarded the registration and travel grants from CICS and DBT for presenting poster at FEMS microbiology and OGMBT organized conference, Vienna, Austria on 23<sup>rd</sup>-25<sup>th</sup> November, **2015**.