

AGRI GENOMICS WORKSHOP AND SEMINAR

Unlocking the Future of Crop
Improvement

**Live NGS Sequencing & Bioinformatics with relevance to
Bio Pesticide & Bio fertilizers and Marker Assisted
Breeding**

20-21 Dec, 2024

IBioM BBS 46th Meet

21 Dec, 2024 12 PM

Conference hall, First floor, North Block, University of
Agricultural Sciences-Bangalore

[Click here to Register !](#)



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This 2-day hands-on workshop is designed to sequence 12 plasmids and 12 microbiome/consortia samples live in the conference room. Using a transposon-based protocol, the libraries will be prepared, and sequencing will be performed using the PromethION P2 Solo sequencer. Data analysis and report generation will be performed using Epi2Me and Commander software, both of which are intuitive and user-friendly tools. Participants will receive analyzed data and comprehensive reports at the end of the workshop.

The libraries will be created by transposon-based protocol and the sequencing will be performed by promethion p2solo sequencer

Analysis and reports will be created by epi2me and commander software. Both are user friendly tools and the analysed data and reports will be provided to the workshop participants

Hands-On Training in cutting-edge genomic tools and software.

Expert Insights from renowned scientists
specializing in agri-genomics.

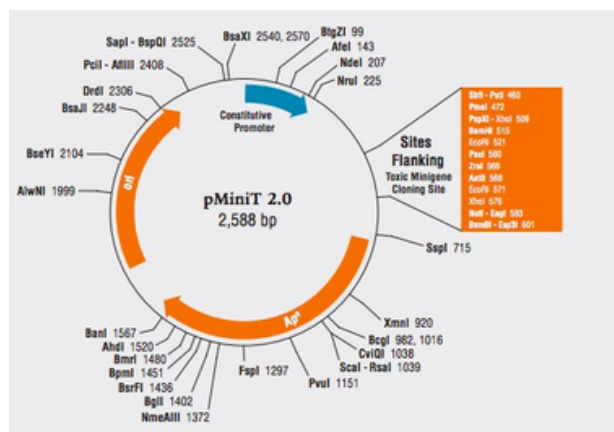
Understanding Biopesticides and Biofertilizers: Learn their composition, applications, and methodologies.

Case Studies focused on the development of climate-resilient crops and stress-tolerant varieties. Networking Opportunities with peers, academic professionals, and industry leaders.

Professionals involved in molecular breeding, CRISPR, GMO development, and agri-biotech companies.

Research scholars and postdoctoral researchers in agriculture aiming to build expertise in Next-Generation Sequencing (NGS) labs and data analysis.

Participation certificates will be provided to all the participants





Schedule - Day 1 (Friday, 20th Dec 2024)

Time	Session	Program Title
8:00 AM onwards	Registration	
9:00 - 9:30	Inauguration	Dr. S.V. Suresha Vice Chancellor, UAS Bangalore
9:30 - 10:00	Prof. Sheshshayee (UAS, Bangalore)	Genomics Assisted improvement of drought adaptation in rice
10:00 - 10:30	Dr. Raja Mugasimangalam	Recent trends in applying genomics in Agriculture
10:30 - 11:00	Tea/Coffee break	
11:00 - 11:30	DNA barcoding in two batches	Plasmid batch and metagenome batch
11:30 - 12:00	Clean up of barcoded samples, and pooling	
12:00 - 12:30	Library Preparation and loading the flowcell	
12:30	Start sequencing run and primary statistics	
1:00 - 2:00	Lunch	
2:00 - 3:00	Plasmid sequence analysis using commander software	
3:00 - 4:00	Plasmid sequence reports	
4:00 - 4:30	Tea/Coffee Break	
4:30 - 5:30	Q&A on Plasmid Sequence	
5:30 - 6:00	Dr. Purushottam (Ajeet Seeds)	Importance of Marker-Assisted Breeding to Develop Climate resilient Crop Varieties
6:00 - 6:30	Metagenome Sequencing Status	
7:30 Onwards	Dinner	



Schedule - Day 2 (Saturday, 21st Dec 2024)

Time	Session	Program Title
9:00 - 9:30	Dr. Rame Gowda (UAS, Bangalore)	Genetic modification for climate resilient crops: Current status and future prospects for sustainable food production
9:30 - 10:30	Metagenome sequencing analysis by commander software	
10:30 - 11:00	Tea/Coffee break	
11:00 - 12:30	Metagenome Reporting and Q&A	
12:30 - 1:30	Agri Biotech MSME Meeting Registration Lunch & Networking	
1:30 - 1:40	Prof. Shesha (Department of Plant Physiology, UAS Bangalore)	Welcome Note
1:40 - 2:00	Dr. Sharan Angadi Director Foundation for Advanced Training in Plant Breeding - ATPBR	Genomics in Private sector Plant Breeding: Myths, Realities, and Market Impact
2:00 - 2:20	Dr. Manish Kumar Thakur Associate Vice President, Genie Labs	Development of Molecular Tools for agriculture
2:20 - 2:40	Dr. Basavaraj, Expert in Sustainable Agriculture	Biopesticides and Biofertilizers
2:40 - 3:20	Panel Moderated by Dr. Jagadish Mittur (IBioM), Panelists - Dr. Gajanan Bochare RICO (Vineyards & Wineries), Dr. Kashif Shariff (Mercuri Biotechnologies), Mr. Pious Thomas (Thomas Biotech) and Mr. Senthil Kumar (GPS Institute for Agricultural Management)	Agriculture for Beverages: Challenges & Opportunities for Farmers, StartUps & MSMEs



Schedule - Day 2 (Saturday, 21st Dec 2024) Continued

3:20 - 4:00	Startup Pitches and Success Stories	
4:00 - 4:30	Tea Break	
4:30 - 4:50	Dr. Raja Mugasimangalam (QTLOmics Technologies)	Cutting-Edge Genomics Meets Practical Applications
4:50 - 5:10	Dr. Muniaswamy Director OxonEx Biological Private Ltd.	Innovative Solution Showcase IRRI Saver: A microbiome-based solution for drought tolerance
5:10 - 5:30	Dr Purushottam Dewang (Founder MD & Chief Scientific Officer, CropG1 Agro Research, Bangalore)	Eco-Intelligent Farming: Advancing Residue-Free Pest and Nutrition Management
5:30 - 5:45	Conclusion & Thank You Note by IBioM	
5:45 - 6:00	Distribution of Participation Certificates	
7:00 onwards	Gala Dinner & Networking	

Workshop and Seminar Program

The workshop will accommodate 50 participants -

25 with the option to bring their own plasmid (any size) or microbiome DNA samples for analysis

25 as general participants without sample submissions

Please fill out the registration form and pay the registration fees

Quantity of Plasmid or soil DNA should be 500ng and concentration 100ng/uL

IBioM 46th BBS Agri Biotech MSME & Startup Meet

Starting on Day 2, 21st December (Saturday) 2024, second half.

Startups & MSMEs are welcome to register



Registration Fee (including GST)

Category	INR
With Sample with NGS Sequencing	7500/-
Only Participation (Students/Academics) and IBioM Members	1000/-
Industries	2000/-
IBioM meeting #46 (agribiotech startups and msme meet)**	500/-

**Day 2 second session starting from registration and lunch

[Click here to Register !](#)



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Organizers

Dr. Raja Mugasimangalam

QTLomics Technologies Pvt Ltd

Contact No: +91 63615 31573 (Dr. Suriyaprakash - for questions on plasmid & microbiome DNA samples)

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