

## ORAL PRESENTATIONS

- Keynote 1** | **Prof Dr William Paul Quick (IRRI, Phillipines)**  
Engineering a C4 Rice
- Keynote 2** | **Dr Madan Babu (MRC-LMB, Cambridge, UK)**  
The Contribution of Intrinsically Disordered Regions to Protein Function, Cellular Complexity and Human Diseases
- Talk 1** | **Assoc Prof Dr Roohaida Othman (UKM)**  
Transcriptome Profiling and Functional Analysis of Phytoremediation Related Gene in *Kappaphycus alvarezii*
- Talk 2** | **Assoc Prof Dr Zeti Azura Mohamed Hussein (UKM)**  
Computational Systems Biology Research in *Polygonum minus* Towards Interesting Biological Knowledge Discovery
- Talk 3** | **Prof Dr Katsuhisa Horimoto (AIST, Japan)**  
“Cyber Drug Discovery”: A Computational Pipeline for Drug Repositioning
- Talk 4** | **Assoc Prof Dr Jung Kyoon Choi (KAIST, Korea)**  
Prediction of Noncoding Cancer Driver Mutations Based on Epigenome Maps and Machine Learning
- Talk 5** | **Prof Dr Hui Lu (Shanghai Jiao Tong University, China)**  
Data Driven Biomedical Research
- Talk 6** | **Dr Takatsugu Hirokawa (AIST, Japan)**  
Molecular Modelling of G Protein-coupled Receptors for *in silico* Drug Discovery
- Talk 7** | **Prof Dr Luonan Chen (CAS China)**  
Detecting Early-Warning Signals for Complex Diseases by Dynamical Network Biomarkers
- Talk 8** | **Prof Dr Sunghoon Kim (SNU, Korea)**  
Interactome of Multi-tRNA Synthetase Complex and its Functional Insights
- Talk 9** | **Dr Koh Takeuchi (AIST, Japan)**  
Identification, Structural Characterisation and Drug Development of an Intracellular GTP Sensor for Metabolism and Tumorigenesis

## ORAL PRESENTATIONS

- Talk 10** | **Prof Dr Louxin Zhang (NUS, Singapore)**  
Profiling Cell Specific Human Gene Regulation Networks
- Talk 11** | **Dr Hojung Nam (GIST, Korea)**  
Systematic Analysis of Genetic Alterations and Their Effects in Human Metabolism
- Talk 12** | **Dr Daehyun Baek (SNU, Korea)**  
Comprehensive Rules for Functional MicroRNA Targeting
- Talk 13** | **Prof Dr Weidong Tian (Fudan University, China)**  
LEGO: A Novel Method for Gene Set Over-Representation Analysis by Incorporating Network-based Gene Weights
- Talk 14** | **Dr Afnizanfaizal Abdullah (UTM)**  
Characterisation of Biological Parts for Modular Genetic Devices: A Comparative Analysis
- Talk 15** | **Prof Dr Mohd Nazalan Mohd Najimudin (USM)**  
Nitrogen Fixation in Gram Positive Bacteria and the Hunt for the Holy Grail of Agriculture – a Nitrogen Fixing Plant
- Talk 16** | **Assoc Prof Dr Mohd Firdaus Mohd Raih (UKM)**  
Searching and Comparing of 3-Dimensional Amino Acid Arrangements – The Capacity for Discovery of Motifs Present Only in a Structural Context
- Talk 17** | **Assoc Prof Dr Mario Andrea Marchisio (Harbin Institute of Technology, China)**  
Yeast Biosensor Design and Construction

## ORAL PRESENTATIONS

- Young Presenter 1** | **Mohd Redha Abdullah Zawawi (MARDI)**  
Protein-Protein Interactions between *Erwinia mallotivora*-*Carica papaya* Using Interolog and Domain-Based Approaches
- Young Presenter 2** | **Reyhaneh Rahnamaie-Tajadod (UKM)**  
Effect of Methyl Jasmonate Elicitation on the Transcriptomic and Metabolomic Profiles of *Polygonum minus* Leaves
- Young Presenter 3** | **Raghunath Pariyani (UPM)**  
Discriminating the Effect of Different Drying Methods on the Biological and Chemical Properties of Java Tea Through Metabolomics Approach
- Young Presenter 4** | **Farhana Mohd Ghani (Universiti Malaya)**  
Transcriptome Analysis of *Penaeus monodon* in Response to White Spot Syndrome Virus Infection
- Young Presenter 5** | **Jan Harold Alcantara (De La Salle University, Philippines)**  
Stability Analysis of the ODE Model Representation of Amyloidogenic Processing in Alzheimer's Disease in the Presence of SORLA
- Young Presenter 6** | **Rabiatul Adawiah Zainal (MARDI)**  
Pathway Analysis of Genome Wide Association Study in Goat Birth Weight
- Young Presenter 7** | **Nooramy Aida Mohd Yusof (UTM)**  
Structure of Aquaglyceroporin 9 and its Selectivity for Arsenite
- Young Presenter 8** | **Siti Aisyah Razali (UTM)**  
Protein-Ligand Interaction Analysis of Galactitol -1 Phosphate 5-Dehydrogenase from *Peptoclostridium difficile*
- Young Presenter 9** | **Nurhafiza Rosdi (UTM)**  
A New Hyper-heuristic Algorithm for Gene Sequence Characterisation and Assembly
- Young Presenter 10** | **Jayson Lucilo (Bicol University, Philippines)**  
BAT Algorithm for Parameter Estimation of S-System Models
- Technical Talk 1** | **Dr Frydman Chiraz (HORIBA Scientific)**  
Characterisation of the Breast Cancer Marker Candidate LAG3 in Human Plasma by Hyphenated SPRI-MALDI-MS Analysis