PROGRAM

جامعة الإمارات العربية المتحدة
United Arab Emirates University

FIRST UAEU SYMPOSIUM ON BIOLOGICAL SCIENCES

"GENOMICS & BIOINFORMATICS"

November 13-15, 2016

United Arab Emirates University, Al Ain, UAE

Organized by

Department of Biology, College of Science &
Khalifa Center for Genetic Engineering and Biotechnology
United Arab Emirates University

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DAY 1: SUNDAY, NOVEMBER 13, 2016
Location: Hilton Al Ain

5:00 pm – 6:00 pm	**REGISTRATION**
6:00 pm – 6:15 pm	**WELCOME ADDRESS** ***Dr Khaled Amiri*** *Chairman, Organizing Committee*
6:15 pm – 6:30 pm	**OPENING ADDRESS** ***Prof Mohamed Albaili*** *Vice Chancellor, UAE University*
6:30 pm – 7:30 pm	**PLENARY LECTURE** ***Prof Eduardo Blumwald*** *University of California, Davis, USA*
7:30 pm – 9:30 pm	**DINNER**

DAY 2: MONDAY, NOVEMBER 14, 2016
Location: IT Building, United Arab Emirates University

	SESSION 1: GENOMICS Chairs: Dr Khaled Hazzouri & Dr Pere Arús
9:00 am – 9:50 am	**KEYNOTE LECTURE** K1. Disruptive technologies for understanding and improving disease resistance in crop plants ***Prof Richard Michelmore*** *University of California, Davis, USA*
9:50 am – 10:20 am	**INVITED TALK** I1. New genomics-based approaches for perennial crop breeding: peach as an example ***Dr Pere Arús*** *Center for Research in Agricultural Genomics, Barcelona, Spain*
10:20 am – 10:40 am	**COFFEE BREAK**
10:40 am – 11:10 am	**INVITED TALK** I2. Building genomic tools for plant breeding: Our experiences improving red clover, ryegrass, and Bracharia ***Dr José de Vega-Bartol*** *The Genome Analysis Center, Norwich, UK*
11:10 am – 11:40 am	**INVITED TALK** I3. Redox strategies for crop improvement ***Dr Pavel Kerchev*** *Ghent University, Ghent, Belgium*
11:40 am – 11:55 am	O1. Whole genome re-sequencing of date palms yields insights into diversification of a fruit tree crop ***Dr Khaled Hazzouri*** *New York University, Abu Dhabi, UAE*
11:55 am – 12:10 pm	O2. Genomics and transcriptomic profiles of imatinib resistance in gastrointestinal stromal tumor ***Dr Asmaa Elzawahry*** *National Cancer Center, Japan*
12:10 pm – 1:40 pm	**LUNCH & POSTER PRESENTATIONS**

SESSION 2: TRANSCRIPTOMICS
Chairs: Dr Synan AbuQamar & Dr R. Manimekalai

1:40 pm –2:30 pm	**KEYNOTE LECTURE** K2. Genetic characterization of salinity tolerance traits to increase salinity tolerance of crops ***Prof Mark Tester*** *King Abdullah University of Science and Technology, Saudi Arabia*
2:30 pm – 3:00 pm	**INVITED TALK** I4. Alternative splicing in FMR1 premutation carrier ***Prof Flora Tassone*** *University of California, Davis, USA*
3:00 pm – 3:30 pm	**INVITED TALK** I5. Transcriptomics to unravel functional markers for crop improvement ***Dr R. Manimekalai*** *Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore, India*
3:30 pm – 4:00 pm	**COFFEE BREAK**
4:00 pm – 4:15 pm	O3. A genome-wide identification of the miRNAome and transcriptome in response to salinity stress in the date palm tree (Phoenix dactylifera L.) ***Dr Mahmoud Yaish*** *Sultan Qaboos University, Oman*
4:15 pm – 4:30 pm	O4. De novo transcriptome analysis of non-model plant Andrographis paniculata using mRNA-Seq data for gene discovery and marker identification ***Mr Vivek Chadramohan*** *Siddaganga Institute of Technology, India*
4:30 pm – 4:45 pm	O5. Identification of genes involved in responses to environmental stress using reverse genetic approaches ***Dr Synan AbuQamar*** *United Arab Emirates University, UAE*
4:45 pm – 6:30 pm	**WORKSHOP** **(Selected participants only due to space limitations)** W1. From FASTQ to BAM: accurate alignment of short reads and references ***Dr José de Vega-Bartol*** *The Genome Analysis Center, Norwich Research Park, Norwich, UK*

DAY 3: TUESDAY, NOVEMBER 15, 2016
Location: IT Building, United Arab Emirates University

	SESSION 3: SYSTEMS BIOLOGY Chairs: Dr Ghada Al-Kafaji & Dr Roderic Guigó
9:00 am – 9:50am	**KEYNOTE LECTURE** K3. Unraveling metabolic pathways regulating fruit ripening ***Prof Eduardo Blumwald*** *University of California, Davis, USA*
9:50 am – 10:20 am	**INVITED TALK** I6. The human transcriptome across tissues and individuals ***Dr Roderic Guigó*** *Center for Genomic Regulation, Barcelona, Spain*
10:20 am – 10:40 am	**COFFEE BREAK**
10:40 am – 11:10 am	**INVITED TALK** I7. Cross-talk between intragenic epigenetic modifications and exon usage across developmental stages of human cells ***Dr Siba Shanak*** *The Arab American University, Jenin, Palestine*
11:10 am – 11:25 am	O6. Circulating microRNA-126 in peripheral whole blood as a potential biomarker for type 2 diabetes-related vascular complications ***Dr Ghada Al-Kafaji*** *Arabian Gulf University, Bahrain*
11:25 am – 11:40 am	O7. Rice root germin-like protein 2 gene promoter (OsRGLP2) is responsive to different plant signaling molecules in potato ***Dr Tariq Mahmood*** *Quaid-i-Azam University, Islamabad, Pakistan*
11:40 am – 11:55 am	O8. From dissecting complex networks in Arabidopsis to revealing new developmental mechanisms and adaptive strategies in date palm ***Dr Ikram Blilou*** *Wageningen University, Netherlands*
12:00 pm – 1:30 pm	**LUNCH & POSTER PRESENTATIONS**

SESSION 4: BIOINFORMATICS/PROTEOMICS

Chairs: Dr Rabah Iratni & Dr Marek Mutwill

1:30 pm – 2:20 pm	**KEYNOTE LECTURE** K4. Strategies for building and annotating high quality genome sequences ***Dr Ivo Gut*** *Centro Nacional de Análisis Genómico, Barcelona, Spain*
2:20 pm – 2:50 pm	**INVITED TALK** I8. Gene module multiplication drives pathway expansion in plants ***Dr Marek Mutwill*** *Max Planck Institute of Molecular Plant Physiology, Potsdam, Germany*
2:50 pm – 3:20 pm	**INVITED TALK** I9. Dissection of climacteric fruit ripening using genetic and genomic resources in melon ***Dr Jordi Garcia-Mas*** *Center for Research in Agricultural Genomics, Barcelona, Spain*
3:20 pm – 3:40 pm	**COFFEE BREAK**
3:40 pm – 4:10 pm	**INVITED TALK** I10. The 1000 Arab Genome: Characterizing the genome of ethnic groups in UAE. ***Dr Habiba Alsafar*** *Khalifa University Center for Biotechnology, Abu Dhabi, UAE*
4:10 pm – 4:25 pm	O9. Integrated genomic analysis of the human mitochondrial transcriptome ***Dr Youssef Idaghdour*** *New York University, Abu Dhabi, UAE*
4:25 pm – 4:40 pm	O10. Anti-breast cancer activity of carnosol in vivo and in vitro and in silico analysis of its target interactions ***Dr Rabah Iratni*** *United Arab Emirates University, UAE*
4:40 pm – 6:15 pm	**WORKSHOP** W2. Current and upcoming DNA sequencing technologies ***Prof Richard Michelmore*** *University of California, Davis, USA*
6:15 pm – 6:30 pm	**CLOSING ADDRESS** ***Dr Khaled Amiri*** *Chairman, Organizing Committee*

POSTERS

P1. Using of whole genome bisulfite sequencing (WGBS) to identify gene expression profile regulated by cytosine methylation under salinity stress in date palm
Miss Ibtisam Rashid Said Al Harrasi
Sultan Qaboos University, Oman

P2. Comparative genomics study for Acidithiobacillus ferrooxidans
Dr Rajesh Patel
Hemchandracharya North Gujarat University, India

P3. Analysis of Mendelian randomization studies of biomarkers and type 2 diabetes: observations from analysis
Dr Nadia Hussain
Al Ain University of Science and Technology, UAE

P4. Identification of Arabidopsis candidate genes in response to biotic and abiotic stresses using comparative microarrays.
Mr Arjun Sham
United Arab Emirates University, UAE

P5. Expression profiling of Arabidopsis WRKY33 mutants in response to Botrytis cinerea
Ms Shamma Al-Shamsi

P6. CRELD1 gene may predispose the risk of atrioventricular septal defects in Down Syndrome patients of North Indian origin
Ms Ambreen Asim
Sanjay Gandhi Post Graduate Institute of Medical Sciences, India

P7. Identification of premutation and grayzone FMR1 carrier status in reproductive age women by TP-PCR
Mrs Deepika Delsa Dean
Sanjay Gandhi Post Graduate Institute of Medical Sciences, India

P8. Novel NR1I2 mutations as probable cause of intellectual disability
Dr Inusha Panigrahi
PGIMER, India

P9. Genetic characterization of Epinephelus marginatus in the Mediterranean Sea: Contribution of microsatellite markers
Miss Aziza Elgid
INSTM, Tunisia

P10. Novel mutation in family with WNT 1- related osteoporosis
Dr Siyaram Didel
PGIMER, India

P11. Analysis of CGG repeat status at FMR1 gene in premature ovarian insufficiency cases: A study from SGPGIMS, Lucknow
Dr Sarita Agarwal
Sanjay Gandhi Post Graduate Institute of Medical Sciences, India

P12. Metagenomic Analysis of Soil Microbes and Risk Assessment of Transgenic Cotton in Northern Karnataka, India using DGGE and ARDRA techniques
Dr Devarajan Thangadurai
Karnatak University, India

P13. BS-Seq analysis pipeline for targeted next generation sequencing data
Mr P Sandeep Mallya
Manipal University, Manipal, India

P14. Prediction of transcription factor binding sites in differentially expressed genes for water stress in rice mediated by Pseudomonas fluorescens
Mrs Abida P.S.
Kerala Agricultural University, India

P15. Identifying a vovel deletion mutation in exon 3 of phenylalanine hydroxylase (PAH) gene in phenylketonuria (PKU) patients of UAE population.
Dr Muhammad Shahid Nazir
University of Modern Sciences, UAE

P16. Genome-wide analysis revealed that DNA methylation is a dynamic regulator of salt and osmotic stress in rice
Dr Fiaz Ahmad
Bahauddin Zakariya University, Pakistan

P17. Identification of superior buffalo bulls for increasing milk production through genome analyses
Miss Saher Islam
University of Veterinary & Animal Sciences, Lahore, Pakistan

P18. Morphology, physiology and microenvironment determine the morphogenetic potential of cell types of leaf callus of pearl millet cultivars.
Dr T.V.R. Lakshmi
University of Modern Sciences, UAE

P19. Whole genome sequencing and gene annotation of almond (Prunus dulcis)
Ms Sumisha Habeeb
UAE University, UAE

P20. Evaluation of suitable reference genes in date palm (Phoenix dactylifera L.) under drought and salinity stress for quantitative real-time PCR
Mr Himanshu Vishwas Patankar
Sultan Qaboos University, Oman

P21. Overexpression, purification & antimicrobial activity of recombinant human ß defensin 3
Dr Zaigham Abbas
University of Punjab, Pakistan

P22. Construction, expression and purification of thymosin α1-Azu28 fusion protein for targeted cancer therapy
Mr Muhammad Shahbaz Aslam
University of Punjab, Pakistan

P23. Testimony of rbcL and matK loci for eight United Arab Emirates native plant species
Dr Alagappan Kumarappan
University of Modern Sciences, UAE

P24. Using novel remote sensing approaches and carbon isotope discrimination to predict drought tolerance in IPT transgenic creeping bentgrass in the field
Dr Ramzi Belkhoja
Khalifa Center for Genetic Engineering and Biotechnology, UAE

P25. Anti-malarial drug discovery using integrative biology and systems biology
Dr Vishal Mevada
Hemchandracharya North Gujarat University, India

P26. In-silico design of inhibitors for Cyclin Dependent Kinase 2 molecule in Breast Cancer: a computational approach
Mrs Sreejisha P.S.
United Arab Emirates University, UAE

P27. Synthesized novel Fmoc-2-aminothiozole: protective against cadmium induced apoptosis, teratogenic effect on zebrafish (Danio rerio) embryos and molecular docking studies
Ms Vaishnavi M
Siddaganga Institute of Technology, India

P28. Structural insights into the polypharmacological activity of dietary flavonols on serine/threonine kinases
Ms Bincy Baby
UAE University, UAE

P29. Inhibiting non-receptor tyrosine kinases associated with prostate cancer using polypharmacological natural compounds
Ms Priya Antony
UAE University, UAE

P30. Bioinformatic methodologies reveal metagenomic Depiction of Indian hot springs' microbial community
Dr Pravin Dudhagara
Veer Narmad South Gujarat University, India

P31. Advanced Statistical Methods in Genetic Association studies
Dr Suresh Kumar Sharma
Panjab University, Chandigarh, India

P32. eHealth applications for clinical genetics
Dr Muhammad Jawad Hashim
United Arab Emirates University, UAE

P33. Artificial intelligence (AI), genomics and personalized medicine
Mr Shaheen N Shah
Genomics Central, India