

Program

Time: April 25-28, 2015

Venue: Nanjing International Youth Conference Hotel (NIYCH), China

Registration

Time: 08:30-18:00, April 24 (Friday), 2015; Place: The Gate of Nanjing Hall, 5th Floor, NIYCH

Opening Ceremony

Time: 9:00-09:40, April 25, 2015 (Saturday); Place: Zhonghua Exhibition Hall, 1st Floor, Nanjing Jinling Convention Center

Plenary Lectures

Time: 09:40-11:45, April 25, 2015 (Saturday); Place: Zhonghua Exhibition Hall, 1st Floor, Nanjing Jinling Convention Center

Moderator	Dr. Mingde Xia, Senior Director, Johnson & Johnson Innovation Center AP, USA	
09:40-09:45	Moderator's Introduction	
09:45-10:15 Title: Instant Identification of Mutations That Cause Phenotype		
	Dr. Bruce Beutler, Professor and Director, University of Texas Southwestern Medical Center, USA	
	Nobel Prize Laureate in Physiology or Medicine, 2011	
10:15-10:45	Title: How to Win a Nobel Prize: The Secret of Cell Division	
	Dr. Tim Hunt, Emeritus Group Leader, Cancer Research, UK	
	Nobel Prize Laureate in Physiology or Medicine, 2001	
10:45-11:15	Title: Defining Interaction Networks and Signaling Pathways That Enable Cell Adhesion and	
	Migration	
	Dr. Vania Braga, Deputy-Head, Molecular Medicine Section, Faculty of Medicine, Imperial College	
	London, UK	
11:15-11:45	Title: The Biological Role of Stable Isotopes and Experimental Verification of the Isotopic Resonance	
	Hypothesis	
	Dr. Roman Zubarev, Division Head, Karolinska Institute, Sweden	

Keynote Forum of WDD & CMCB

Time: 13:30-15:35, April 25, 2014 (Saturday); Place: Room 702, 7th Floor, NIYCH

Moderator	Dr. Yi Pan, Distinguished University Professor, Georgia State University, USA	
13:30-13:35	Moderator's Introduction	
13:35-14:05	<i>Title:</i> Size-selected Gold Clusters: Solving the Atomic Structure of Model Nanoparticles with Multiple Medical Applications	
	Dr. Richard E. Palmer, Head, Nanoscale Physics Research Laboratory; Professor, University of	
	Birmingham, UK	
14:05-14:35	Title: Porosome: The Universal Secretory Machinery at the Cell Plasma Membrane	
	Dr. Bhanu P. Jena, Distinguished & George E. Palade University Professor, Wayne State University,	
	USA	
14:35-15:05	Title: Regulation of Intracellular pH: Role of Sodium-coupled Bicarbonate Transporters	
	Dr. Walter F. Boron, Chairman, Department of Physiology and Biophysics, Case Western Reserve	
	University, USA	
15:05-15:35	Title: Manufacturing Biotech Products: From Discovery to Market	
	Dr. Alain Bernard, Vice President, Technical Operations GPS, UCB Pharma, Belgium	



Group Photo

Time: 15:40-15:50, April 25, 2015 (Saturday); Place: Outside Square, NIYCH

BIT's 6th Annual World DNA and Genome Day-2015

WDD 01: DNA Damage & Repair, Genome Replication, and Related Enzymes

Time: 08:30-10:50, April 26, 2015 (Sunday); Place: Room 703, 7th Floor, NIYCH

Chair	Dr. Chengtao Her, Associate Professor, Washington State University, USA	
Co-Chair	Dr. Jing H. Wang, Assistant Professor, University of Colorado, USA	
08:30-08:35	Chair's Introduction	
08:35-08:55	Title: DNA Repair Choice after Irradiation of Cells with Heavy Ions	
	Dr. Francis A. Cucinotta, Professor, University of Nevada, USA	
08:55-09:15	Title: The Harness of Error-prone DNA Double-strand Break Repair by hMSH4	
	Dr. Chengtao Her, Associate Professor, Washington State University, USA	
09:15-09:35	Title: Mechanisms Underlying Widespread Genomic Rearrangements in B cell Lymphomas	
	Dr. Jing H. Wang, Assistant Professor, University of Colorado, USA	
09:35-09:55	Title: Phosphorothioation: An Unusual Post-replicative Modification on the DNA Backbone	
	Dr. Shi Chen, Professor, Wuhan University, China	
09:55-10:15 Title: Ubiquitin E3 Ligase SPOP Regulates the Stability of Histone H3K36 Methyltrans		
	and DNA Damage Response	
	Dr. Min Wu, Professor, Wuhan University, China	
10:15-10:30	Coffee Break	
10:30-10:50	Title: Premature Aging and Cancer: A Lesson from the Human RECQ4 DNA Helicase	
	Dr. Yilun Liu, Associate Professor, Beckman Research Institute of City of Hope, USA	

WDD 02: Special Symposium of Nucleic Acids

Time: 08:30 -09:55, April 26, 2015 (Sunday); Place: Room 705, 7th Floor, NIYCH

Chair	Dr. Xianbin Yang, Director of R & D, AM Biotechnologies, USA	
08:30-08:35	Chair's Introduction	
08:35-08:55	Title: The Sequence-specific Cellular Uptake of DNA Nanostructures	
Dr. Chung Hang J. Choi, Assistant Professor, The Chinese University of Hong Kong, Hon		
	China	
08:55-09:15	Title: New Reagent for RNA-based Therapeutic Technologies	
	Dr. Xianbin Yang, Director of R & D, AM Biotechnologies, USA	
09:15-09:35	Title: Controlled Downstream Processing of Plasmid DNA on Monolithic Chromatographic Columns	
	Dr. Nika Lendero Krajnc, Chief Scientific Officer, BIA Separations GmbH, Austria	
09:35-09:55	Title: Sensing of Sequential-assembly of Synthetic DNA on a Planar Surface Using QCM-D and	
	SPR	
	Dr. Lu Sun, Postdoc., Chalmers University of Technology, Sweden	



WDD 03: Functional Genomics Screening and High-Yield Genetics/Genomics, Next-Generation Sequencing

Time: 09:55-11:40, April 26, 2015 (Sunday); Place: Room 705, 7th Floor, NIYCH

Chair	Dr. Xinsheng Sean Ling, Professor, Brown University, USA	
Co-Chair	Dr. Ping Xu, Professor, Virginia Commonwealth University, USA	
09:55-10:00	Chair's Introduction	
10:00-10:20	Title: Building a Solid-state Polymerase for DNA Sequencing and Other Applications	
	Dr. Xinsheng Sean Ling, Professor, Brown University, USA	
10:20-10:40	Title: Essential Gene Identification by Genomics and Systems Biology	
	Dr. Ping Xu, Professor, Virginia Commonwealth University, USA	
10:40-11:00	Title: The Integration of NGS Technology Will Change Molecular Diagnostic Market	
	Mr. Junpu Xu, CEO, Beijing ACCB Biotech Ltd., China	
11:00-11:20	Title: Genome Survey Sequencing and Genetic Background Characterization of Gracilariopsis	
	Lemaneiformis (Rhodophyta) Based on Next-generation Sequencing	
	Dr. Wei Zhou, Postdoc, The Ocean University of China, China	
11:20-11:40	Title: The Complete Chloroplast Genome of Gracilariopsis Lemaneiformis (Rhodophyta) Derived	
	Directly from Next-generation Sequencing Data	
	Mr. Qingwei Du, The Ocean University of China, China	

WDD 04: Cancer Genetics/Genomics

Time:08:30-11:50, April 26, 2015 (Sunday); Place: Room 707, 7th Floor, NIYCH

Chair Co-Chair	Dr. Shulin Li, Professor, The University of Texas MD Anderson Cancer Center, USA Dr. Susana C. Raimondi, Professor, St. Jude Children's Research Hospital, USA	
08:30-08:35	Chair's Introduction	
08:35-08:55	Title: MicroRNAs Regulation of Colon Cancer Stem Cells	
	Dr. Adhip P. N. Majumdar, Professor, Wayne State University, USA	
08:55-09:15	Title: Early Detection of Tumor Relapse and Profiling of Tumor Resistance via a Universal CTC	
	Capture System	
	Dr. Shulin Li, Professor, The University of Texas MD Anderson Cancer Center, USA	
09:15-09:35	Title: Investigation of Genetic Determinants of Cervical Cancer	
	Dr. Dan Chen, Professor, Shanghai Jiao Tong University School of Medicine, China	
09:35-09:55	Title: Molecular Evolution Models of Cancer	
	Dr. Chin-Kun Hu, Research Fellow, Academia Sinica, Taiwan	
09:55-10:15	Title: Integrated Analysis of miRNA Profiling and Bioinformatics Reveals the Potential Key miRNAs	
	in Gastric Cancer	
	Dr. Zhe Jin, Professor, Shenzhen University, China	
10:15-10:30	Coffee Break	
10:30-10:50	Title: Pathway Deregulation and Clinical Implications of Somatic Mutations in DNA and RNA of	
	Lung Adenocarcinoma	
	Dr. Zhifu Sun, Associate Director, Mayo Clinic, USA	
10:50-11:10	Title: Important Cytogenetic/Genetic Lesions Subgroups in Childhood Acute Myeloblastic Leukemia:	
	Impact of Genomic Discoveries	
	Dr. Susana C. Raimondi, Professor, St. Jude Children's Research Hospital, USA	
11:10-11:30	Title: Alteration of LINE-1 DNA Methylation and mRNA Expression in First- and Third-Trimester	
	Placenta Professor Vi Assistant Professor Manage University, USA	
	Dr. Jennifer Li, Assistant Professor, Mercer University, USA	



11:30-11:50 Title: Further Confirmation of Germline Glioma Risk Variant, rs78378222 in TP53 and Its Implication

in Tumor Tissues via Integrative Analysis of TCGA Data

Dr. Zhaoming Wang, Bioinformatics Manager, National Cancer Institute, USA

WDD 05: Prenatal, Perinatal and Reproductive Genetics

Time: 10:50-11:35, April 26, 2015 (Sunday); Place: Room 703, 7th Floor, NIYCH

Chair Dr. Pi-Hua Chen, Director, Shuang Ho Hospital, Taiwan	
10:50-10:55 Chair's Introduction	
10:55-11:15 Title: Embryo Glue Increases IVF Pregnancy Rate	
Dr. Pi-Hua Chen, Director, Shuang Ho Hospital, Taiwan	
11:15-11:35 Title: Use of the ES-D3 Cell Differentiation Assay, Combined with the BeWo Transport Me	odel, to
Predict Relative in Vivo Developmental Toxicity of Antifungal Compounds	
Ms. Hequn Li, Wageningen University, The Netherlands	

WDD 06: Microbial Genomics & Metagenomics

Time: 13:30 -16:50, April 26, 2015 (Sunday); Place: Room 703, 7th Floor, NIYCH

Chair Co-Chair	Dr. Gregory A. Buck, Director, Virginia Commonwealth University, USA Dr. Sohan Jheeta, Researcher, NoR HGT & LUCA, UK	
13:30-13:35	Chair's Introduction	
13:35-13:55	<i>Title:</i> The Integrative Genomics and Multi-omics of the Vaginal Microbiome with a focus on Pregnancy and Preterm Birth	
	Dr. Gregory A. Buck, Director, Virginia Commonwealth University, USA	
13:55-14:15	Title: Hypothesis: Network of RNAs and Their Influence on Life	
	Dr. Sohan Jheeta, Researcher, NoR HGT & LUCA, UK	
14:15-14:35	<i>Title:</i> Activating Supercoiling-sensitive Promoters by Transcription-coupled DNA Supercoiling in Escherichia Coli	
	Dr. Fenfei Leng, Associate Professor, Florida International University, USA	
14:35-14:55	<i>Title:</i> Electrochemical Detection of Avian Influenza Virus Genotype Using ssDNA Probe Modified Gold Electrode	
	Dr. Jerzy Radecki, Professor, Polish Academy of Sciences, Poland	
14:55-15:15	Title: Microbiology of the Built Environment: The Changing Microbiome of New York City College of Technology	
	Dr. Davida S. Smyth, Assistant Professor, New York City College of Technology, USA	
15:15-15:30	Coffee Break	
15:30-15:50	Title: Genome Sequence, Structure and Phylogeography of the Circulatory Foot-and-Mouth Disease Viruses in Bangladesh	
	Dr. Md. Anwar Hossain, Professor, University of Dhaka, Bangladesh	
15:50-16:10	Title: Primary Isolation and Identification of Helicobacter Pylori from Dyspeptic Patients in	
	Hainan Island, China	
	Dr. Haiying Gu, Professor, NingBo University, China	
16:10-16:30	Title: Evolutionary Relationships and Diversity among the Filamentous Bacteriophages that Infect	
	the Phytopathogen Ralstonia Solanacearum	
	Dr. Ahmed Askora, Assistant Professor, Zagazig University, Egypt	
16:30-16:50	Title: Whole-genome Sequence Comparison (ANI) as a Method for Improving Bacterial Species Definition	
	Dr. Wen Zhang, Associate Researcher, Chinese Center for Disease Control and Prevention, China	



WDD 07: Cell Therapy and Stem Cell Genomics

Time: 16:50-17:35, April 26, 2015 (Sunday); Place: Room 703, 7th Floor, NIYCH

Chair	Dr. Barry Merriman, VP, Human Longevity, Inc., USA	
16:50-16:55	Chair's Introduction	
16:55-17:15	Title: The Role of Stem Cell Genomics and Therapy in Precision Medicine and Human Longevity	
	Dr. Barry Merriman, VP, Human Longevity, Inc., USA	
17:15-17:35	Title: Sema3C Mediates the Communication within Cancer Stem Cell	
	Dr. Jianghong Man, Research Associate, National Center of Biomedical Analysis, China	

WDD 08: Epigenomics, Sequencing and SNiPs

Time: 17:35 -18:40, April 26, 2015 (Sunday); Place: Room 703, 7th Floor, NIYCH

Chair	<i>Dr. Frederique Magdinier,</i> Research Director, Laboratory of Medical Genetics & Functional Genomics, France
17:35-17:40	Chair's Introduction
17:40-18:00	Keynote Speech: Genome-Wide Disease Association Through SNP Analysis
	Dr. Yi Pan, Distinguished University Professor, Georgia State University, USA
18:00-18:20	Title: Analysis of DNA Methylation Pattern at Repetitive DNA Sequences by Deep Sequencing in
	Rare Human Diseases
	Dr. Frederique Magdinier, Research Director, Laboratory of Medical Genetics & Functional
	Genomics, France
18:20-18:40	Title: Investigation of Proliferation and Cytotoxicity Capacity of Cytokine-Induced Killer Cells:
	OMICS Strategy
	Dr. Wenju Wang, Associate Professor, Kunming Yan'an Hospital, China

WDD 09: Neurogenetics, Neurodegeneration and Psychiatric Genetics

Time:13:30-14:55, April 26, 2015 (Sunday); Place: Room 705, 7th Floor, NIYCH

Dr. Sanjay I. Bidichandani, Professor, University of Oklahoma, USA	
Chair's Introduction	
Title: Neuropsychiatric Aspects of Mitochondrial Cytopathies	
Dr. Jean-Marc Burgunder, Professor, University of Bern, Switzerland	
Title: Epigenetic Promoter Silencing in Friedreich Ataxia	
Dr. Sanjay I. Bidichandani, Professor, University of Oklahoma, USA	
Title: Long-Term Metabolic Gene Expression Changes in Rat Cerebral Cortex Following Recurrent	
Neonatal Seizures	
Dr. Hong Ni, Deputy Director, The Children Hospital Affiliated to Soochow University, China	
Title: Association between Vitamin D Receptor Gene Polymorphisms and Susceptibility to Parkinson's	
Disease: A Meta-analysis	
Mr. Zi-Teng Zhang, Research Assistant, Second Military Medical University, China	



WDD 10: Animal Genetics/Genomics

Time: 14:55 -16:00, April 26, 2015 (Sunday); Place: Room 705, 7th Floor, NIYCH

Chair Dr. Marie Lipoldová, Laboratory Head, Academy of Sciences of the Czech Republic, Czech

Republic

Co-Chair Dr. Yongming Sang, Assistant Professor, Kansas State University, USA

14:55-15:00 Chair's Introduction

15:00-15:20 Title: Epistasis in Susceptibility to Infectious Disease * Model of Leishmaniasis

Dr. Marie Lipoldová, Laboratory Head, Academy of Sciences of the Czech Republic, Czech

Republic

15:20-15:40 Title: Profiling Immune Response Genes in Obese Rats Induced by High-fat Diet and Adenovirus

Infection

Dr. Yongming Sang, Assistant Professor, Kansas State University, USA

15:40-16:00 Title: Investigations of TNF-blocking Activity of VARV-CrmB Protein in Vitro and in Vivo

Dr. Irina Gileva, Leading Scientist, SRC V & B VECTOR, Russia

WDD 11: RNAi and microRNA Technologies

Time: 16:00-17:45, April 26, 2015 (Sunday); Place: Room 705, 7th Floor, NIYCH

Chair D	<i>Dr. Harald Osmundsen,</i> Professor,	University of Oslo, Norway
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16.00 16.05	Chair's Introduction
16:00-16:05	Chair's infroduction

16:05-16:25 Title: miRNA Based Therapeutic Approaches in Chronic Diabetic Complications

Dr. Subrata Chakrabarti, Chair, Western University, Canada

16:25-16:45 Title: Application of MicroRNA Mimics and miRNA Profilingto Investigate Anti-proliferative Effects

of Non-expressed Members of the miR-106a-363 Cluster Using Cultured Squamous Carcinoma Cells

Dr. Harald Osmundsen, Professor, University of Oslo, Norway

16:45-17:05 Title: MicroRNA-135a Contributes to the Development of Portal Vein Tumor Thrombus by Promoting

Metastasis in Hepatocellular Carcinoma

Dr. Shanrong Liu, Professor, Second Military Medical University, China

17:05-17:25 Title: Serum Expression Level of MiR-382-3p, MiR-598-3p, MiR-1246 and MiR-184 in Breast Cancer

Patients

Dr. Zhaoyun Li, Chief Technician, Taizhou Central Hospital, China

17:25-17:45 Title: tRNA-Derived Small RNAs (tsRNAs): New Player in Physiological and Disease Conditions

Dr. Qi Chen, Assistant Professor, Chinese Academy of Sciences, China

WDD 12: Pharmacogenomics, Personalized Medicine and Biomarkers

Time:08:30 -11:30, April 27, 2015 (Monday); Place: Room 703, 7th Floor, NIYCH

Chair	<i>Dr. Guanghui Hu,</i> President, Admera Health, USA
Co-Chair	Dr. Zhiyang Zhang, President, 3G Biotech, China

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08:30-08:35	Chair's Introduction

08:35-08:55 Keynote Speech: Elongation Factor 3 Functions as Ribosome Recycling Factor in Yeast: Inhibitors

of This Factor and Comparison with Other Recycling Factor and the Elongation Activity of eEF3

Dr. Akira Kaji, Professor, University of Pennsylvania, USA

08:55-09:15 Title: Differential Expression of MicroRNA in Peripheral Blood Mononuclearcells as Specific

Biomarker for Major Depressive Disorder Patients

Dr. Jim Lu, President, GoPath Diagnostic Laboratories, USA

09:15-09:35 Title: Non-Invasive Cancer Genomic Testing

Dr. Guanghui Hu, President, Admera Health, USA



09:35-09:55	Title: Health Technology Assessment and Reimbursement of Personalized Medicine Technologies Dr. Franz Hessel, Professor, SRH University Berlin, Germany
09:55-10:15	Title: Click Ractions for Deposition of Redox Active Monolayers on the Gold Support – The Base of A New Electrochemical Biosensors
	Dr. Hanna Radecka, Professor, Polish Academy of Sciences, Poland
10:15-10:30	Coffee Break
10:30-10:50	Title: New Business Model of Personalized Medicine in China
	Dr. Zhiyang Zhang, President, 3G Biotech (China) Company, China
10:50-11:10	Title: Genotyping Products, Using GoldMag Nanoparticles as Carriers
	Dr. Yali Cui, Professor, Northwest University, China
11:10-11:30	Title: Proteomic Heterogeneity in Clinically Nonfunctional Pituitary Adenomas
	Dr. Xianquan Zhan, Professor, Central South University, China

WDD 13: Metabolomics, Glycomics and Lipidomics

Time:08:30 -09:35, April 27, 2015 (Monday); Place: Room 705, 7th Floor, NIYCH

Chair Co-Chair	<i>Dr. Said Rabbani,</i> Professor, The University of São Paulo, Brazil <i>Dr. Bennard van Ravenzwaay,</i> Senior Vice President, BASF SE, Germany
08:30-08:35	Chair's Introduction
08:35-08:55	Title: Metabolomics in Vitro: A New Approach for Systemic Toxicity – First Applications for Chemical Grouping
	Dr. Bennard van Ravenzwaay, Senior Vice President, BASF SE, Germany
08:55-09:15	Title: Rotavirus Infections: Let the Sugars Do the Talking
	Dr. Thomas Haselhorst, Senior Research Fellow, Griffith University, Australia
09:15-09:35	Title: A Metabolomics Approach to Phenotype vs. Genotype Heterogeneity Dr. Said Rabbani, Professor, The University of São Paulo, Brazil

WDD 14: Forensic DNA Analysis

Time:09:55-11:00, April 27, 2015 (Monday); Place: Room 705, 7th Floor, NIYCH

Chair	Dr. Irina Perepechina, Professor, Lomonosov Moscow State University, Russia
09:55-10:00	Chair's Introduction
10:00-10:20	Title: Determination of Genetic Identity on the Basis of the Consensual Level of Reliability of DNA
	Identification
	Dr. Irina Perepechina, Professor, Lomonosov Moscow State University, Russia
10:20-10:40	Title: DNA Human Identification for the Family Rights: Agreement between UNESP/Laboratory
	of Paternity and Public Defender in São Paulo State
	Dr. Regina M. B. Cicarelli, Professor, Universidade Estadual Paulista, Brazil
10:40-11:00	Title: Fetal Paternal Lineage Determination by Y-chromosome Short Tandem Repeat Analysis in
	the Maternal Plasma: Analytical and Pre-analytical Considerations
	Dr. Gustavo Barcelos Barra, Principal Investigator, Sabin Laboratory, Brazil



WDD 15: Genetics of Immune & Autoimmune Disorders

Time:11:10-11:55, April 27, 2015 (Monday); Place: Room 705, 7th Floor, NIYCH

Chair	Dr. Weikuan Gu, Professor, University of Tennessee, USA
11:10-11:15	Chair's Introduction
11:15-11:35	Title: Difference in Molecular Network of Collagen, Type III, Alpha *1 between Mice and Humans-
	The Obstacle that Translational Research Must Overcome
	Dr. Weikuan Gu, Professor, University of Tennessee, USA
11:35-11:55	Title: Genetic Roles of Human IgG Fc Receptors in the Development of Sarcoidosis
	Dr. Jianming Wu, Associate Professor, University of Minnesota, USA

WDD 16: Plant and Crop Genetics/Genomics

Time:08:30 -11:50, April 27, 2015 (Monday); Place: Room 707, 7th Floor, NIYCH

Chair Co-Chair	Dr. Chungui Lu, Assistant Professor, University of Nottingham, UK Dr. Patrick Xuechun Zhao, Associate Professor, The Samuel Roberts Noble Foundation, USA
08:30-08:35 08:35-08:55	Chair's Introduction Title: Systematic Functional Analysis of Nitrogen/Phosphate Use Efficiency in Crops by Gene Regulatory Network
08:55-09:15	Dr. Chungui Lu, Assistant Professor, University of Nottingham, UK Title: LegumeIP * An Integrative Platform to Study Gene Function and Genome Evolution in Legumes
09:15-09:35	Dr. Patrick Xuechun Zhao, Associate Professor, The Samuel Roberts Noble Foundation, USA Title: Molecular Genetic Mapping and Localization of Quantitative Trait Loci for Rice Aroma Dr. Farahnaz Sadat Golestan Hashemi, Researcher, Universit Putra Malaysia, Malaysia
09:35-09:55	Title: Xylem Sap in Cotton Contains Proteins that Contribute to Environmental Stress Response and Cell Wall Development
09:55-10:15	Dr. Zhi-Yong Zhang, Head, Henan Institute of Science and Technology, China Title: Genome-wide Identification and Analysis of the Growth-regulating Factor Family in Chinese Cabbage (Brassica Rapa L. ssp. Pekinensis) Dr. Jianwei Gao, Director, Shandong Academy of Agricultural Sciences, China
10:15-10:30	Coffee Break
10:30-10:50	Title: Biosafety Research in Transgenic White Clover (Trifolium Repens L) Dr. Kevin Smith, Professor, The University of Melbourne, Australia
10:50-11:10	Title: To Reveal the Molecular Pathway Associated with Lipid Biosynthesis of the Green Alga by Proteomics
11:10-11:30	Dr. Yuqin Li, Associate Professor, Xiangtan University, China Title: Molecular Techniques Applied in Sugarcane Breeding in China Dr. Yang-Rui Li, Director, Chinese Academy of Agricultural Sciences-Guangxi Academy of Agricultural Sciences, China
11:30-11:50	Title: Expression of Peanut Iron Regulated Transporter 1 in Tobacco and Rice Plants Confers Improved Iron Nutrition Dr. Yuanmei Zuo, Professor, China Agriculture University, China



WDD 17: Bioinformatics/Computational Tools, Big Data Analysis and Visualization

Time:13:30-16:10, April 27, 2015 (Monday); Place: Room 703, 7th Floor, NIYCH

Chair Co-Chair	<i>Dr. Victor Solovyev,</i> Professor, King Abdullah University of Science and Technology, Saudi Arabia <i>Dr. Ming Li,</i> Assistant Professor, University of Arkansas for Medical Sciences, USA
13:30-13:35	Chair's Introduction
13:35-13:55	Keynote Speech: Integrated Systems Biology of Synaptic Plasticity: Modelling the Dynamics of CaMKII-NMDAR Complex Related to Memory Formation in Synapses to Understand the Possible Roles of Threonine 286 Autophosphorylation of CaMKII in Long Term Potentiation Dr. Don Kulasiri, Professor, Lincoln University, New Zealand
13:55-14:15	Title: From Biological Network Reconstruction to Data Analysis and Visualization Dr. Mohamed Elati, Associate Professor, University of Evry, France
14:15-14:35	Title: Detecting Maternal-fetal Genotype Interactions Associated with Congenital Heart Defects Dr. Ming Li, Assistant Professor, University of Arkansas for Medical Sciences, USA
14:35-14:55	Title: Using the SCD Domain as a Predictive Tool to Identify Putative DDR Targets Dr. Albert Ribes-Zamora, Assistant Professor, University of St. Thomas, USA
14:55-15:15	Title: Advanced Algorithms for Next Generation Data Processing Dr. Victor Solovyev, Professor, King Abdullah University of Science and Technology, Saudi Arabia
15:15-15:30	Coffee Break
15:30-15:50	Title: Using Data Mining Instead of Gene Set Analysis, Is It OK? Dr. Soheila Khodakarim, Assistant Professor, Shahid Beheshti University of Medical Sciences, Iran
15:50-16:10	Title: Computational Prediction of Structural and Target Sites of Virulence Factors in Staphylococcus Aureus Dr. Subhashree Venugopal, Associate Professor, VIT University, India

WDD 18: Structural and Functional Genomics

Time: 08:30-10:15, April 28, 2015 (Tuesday); Place: Room 703, 7th Floor, NIYCH

Chair	Dr. Xinghua Pan, Research Scientist, Yale University, USA
08:30-08:35	Chair's Introduction
08:35-08:55	Title: Single Cell Sequencing Accelerates the Progress of Genomic Medicine
	Dr. Xinghua Pan, Research Scientist, Yale University, USA
08:55-09:15	Title: CALR Gene Mutations in Primary Myeloproliferative Syndroms
	Dr. Jean Gabert, Professor, AMU University, France
09:15-09:35	Title: Theoretical Analysis Indicates Human Genome is not a Blueprint and Human Oocytes Have
	the Instructions
	Dr. Koichi Itoh, President, The Institute for Theoretical Molecular Biology, Japan
09:35-09:55	Title: Complexity of Genetics in Keratoconus
	Dr. Marzena Gajecka, Associate Professor, Polish Academy of Sciences, Poland
09:55-10:15	Title: The MAOA Gene Predicts Happiness in Women
	Dr. Henian Chen, Associate Professor, University of South Florida, USA



BIT's 5th Annual World Congress of Molecular & Cell Biology-2015

Quest A: Peers' Opinions on Unsolved Mysteries in the Cell Biology

Panel A1: What Challenges Persist in Mechanisms of Endocytosis & Exocytosis?

Time: 08:30-09:55, April 26, 2015 (Sunday); Place: Room 738, 7th Floor, NIYCH

Chair	Dr. Jianhua Xu, Assistant Professor, Georgia Regents University, USA
08:30-08:35	Chair's Introduction
08:35-08:55	Title: Advances in Our Understanding of Fractional Release of Intra-Vesicular Contents from Cells Dr. Bhanu P. Jena, Distinguished & George E. Palade University Professor, Wayne State University, USA
08:55-09:15	Title: The Intracellular Na ⁺ /H ⁺ Exchanger NHE7 Effects a Novel Na ⁺ Coupled Proton-Loading Mechanism that Accelerates Endocytosis Dr. Laurent Counillon, Professor, Université Nice-Sophia Antipolis LP2M - CNRS-UMR 7370, France
09:15-09:35	Title: Transcytosis: Endocytosis and Exocytosis, New Electron-Microscopic Observations Dr. Theodore C. Iancu, Professor Emeritus & Director, The Milman-David Biomedical Research Unit, Technion-Israel Institute of Technology, Israel
09:35-09:55	Title: The Exo-Endocytosis Coupling in Neuronal Synapses Dr. Jianhua Xu, Assistant Professor, Georgia Regents University, USA

Panel A2: How Cells Face Cell Injury, Cell Damage and Undergo Repair?

Time: 08:30-10:15, April 27, 2015 (Monday); Place: Room 733, 7th Floor, NIYCH

	Kong, Hong Kong, China
08:30-08:35	Chair's Introduction
08:35-08:55	Title: Na ⁺ /K ⁺ ATPase is a New Target to Treat Oxidative Stress Related Diseases
	Dr. Jinsong Bian, Associate Professor, Department of Pharmacology, Yong Loo Lin School of
	Medicine, National University of Singapore, Singapore
08:55-09:15	Title: Activated Protein C Inhibits *-Cell Apoptosis, Induces Regulatory T Cells and Prevents Diabetes
	in NOD Mice
	Dr. Meilang Xue, Senior Research Fellow, University of Sydney at Royal North Shore Hospital,
	Australia
09:15-09:35	Title: More than a Century of Alzheimer's Disease Research Are We Barking up the Wrong Trees
	Dr. Andrew CK Law, Director, Neural Dysfunction Research Laboratory, The University of Hong
	Kong, Hong Kong, China
09:35-09:55	Title: Investigating the Immune Response to Chromosomal Instability
	Mr. Dawei Liu, The University of Adelaide, Australia
09:55-10:15	Title: The Convergence of Abscisic Acid and Nitric Oxide Determines the Outcome of Cell Defence
	Responses in Plants, Mammals and Insects

Dr. Lorenzo Lamattina, Director, Integrative & Molecular Physiology Lab, Argentina

Dr. Andrew CK Law, Director, Neural Dysfunction Research Laboratory, The University of Hong

Chair



Quest B: Hot Stories of Cellular Structure, Events and Functins

Panel B1: Cytoskeleton and Organelle

Time: 08:30-12:10, April 26, 2015 (Sunday); Place: Room 732, 7th Floor, NIYCH

Chair	<i>Dr. Yassemi Capetanaki</i> , Vice-Director, Center of Basic Research, Biomedical Research Foundation, Academy of Athens, Greece
Co-Chair	<i>Dr. Intaek Lee,</i> Principal Investigator, Shanghai Institute for Advanced Immunochemical Studies, ShanghaiTech University, China
08:30-08:35	Chair's Introduction
08:35-09:00	Title: Regulation of BBSome Trafficking to Cilia Dr. William Y. Tsang, Research Unit Director, Institut de recherches cliniques de Montréal, Canada
09:00-09:25	Title: Offsetting Gelsolin Degradation in a Transgene Amyloidosis Mouse Model by Means of Chaperone Nanobodies
09:25-09:50	Dr. Jan Gettemans, Principal Investigator, Nanobody Lab, Ghent University, Belgium Title: Unraveling the Mechanism of Mitoprotection and Cardioprotection by the Desmin Cytoskeleton Dr. Yassemi Capetanaki, Vice-Director, Center of Basic Research, Biomedical Research Foundation, Academy of Athens, Greece
09:50-10:15	Title: Cortical Regulation of Cell Size by a Sizer cdr2p Dr. Timothy E. Saunders, Assistant Professor, National University of Singapore, Singapore
10:15-10:30	Coffee Break
10:30-10:55	Title: Tether-SNARE Interaction is Required for Golgi Stacking Dr. Intaek Lee, Principal Investigator, Shanghai Institute for Advanced Immunochemical Studies, Shanghai Tech University, China
10:55-11:20	Title: The Striated Organelle: A Motor for Inner Ear Hair Cells Dr. Anna Lysakowski, Professor, University of Illinois at Chicago, USA
11:20-11:45	Title: Talin Determines the Nanoscale Architecture of Focal Adhesions Dr. Yilin Wang, Research Fellow, Mechanobiology Institute, National University of Singapore, Singapore

Panel B2: Cell Polarity, Adhesion and Migration

11:45-12:10

Time: 09:55-11:00, April 26, 2015 (Sunday); Place: Room 738, 7th Floor, NIYCH

Chair	Dr. Françoise Brochard-Wyart, Group Leader, Institut Curie & UPMC University Paris 06, France
09:55-10:00	Chair's Introduction
10:00-10:20	Title: Novel Association between Vasoactive Intestinal Peptide and CRTH2 Receptor in Recruiting
	Human Eosinophils to the Allergic Upper Airway
	Dr. Amr El-Shazly, Professor of Rhinology, Liege University Hospital, Belgium
10:20-10:40	Title: Soft Matter Models of Tissue and Tumors "Wetting of Living Drops"
	Dr. Françoise Brochard-Wyart, Group Leader, Institut Curie & UPMC University Paris 06, France
10:40-11:00	Title: Proinflammatory, Procoagulant and Cytotoxic Properties of Extracellular Histones
	Dr. Guozheng Wang, Principal Clinical Scientist & Senior Lecturer, Institute of Infection and Global
	Health, University of Liverpool, UK

Tittle: NF-kB Is Crucial for HURP-Dedicated Assembly of Golgi Ribbon Formation

Ms. Jo-Mei Maureen Chen, Department of Applied Chemistry, National Chi Nan University, Taiwan



Panel B3: Chromosome, Chromatin and Epigenetics

Time: 13:30-17:10, April 26, 2015 (Sunday); Place: Room 738, 7th Floor, NIYCH

Chair Co-Chair	Dr. Elena Gaginskaya, Professor, Saint-Petersburg State University, Russia Dr. John M. Rosenfeld, Platform Technology Manager, Merck-Millipore, USA
13:30-13:35 13:35-14:00	Chair's Introduction Title: DNA Methylation an Important Epigenetic Signal with Impact on Many Mechanisms in
13.33-14.00	Molecular Biology
	<i>Dr. Walter Doerfler,</i> Professor Emeritus, Cologne University; Guest Professor, Institute for Virology, Erlangen University Medical School, Germany
14:00-14:25	Title: Epigenomic Landscape and Therestrictive Position Effectsat Retrovirusintegration Sites Dr. Jiri Hejnar, Head, Institute of Molecular Genetics, Academy of Sciences of the Czech Republic, Czech Republic
14:25-14:50	Title: Functioning of Ribosomal Genes in Avian Oogenesis
14:50-15:15	Dr. Elena Gaginskaya, Professor, Saint-Petersburg State University, Russia Title: Chromatin States and Replication Patterns in Polytene Chromosomes of Drosophila Melanogaster Dr. Tatyana D. Kolesnikova, Research Fellow, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
15:15-15:30	Coffee Break
15:30-15:55	Title: New Models for Structures and Functions in the Cell Nucleus Dr. Ronald Hancock, Professor & Research Scientist, Laval University Cancer Research Centre- CHUQ Oncology, Canada
15:55-16:20	Title: Methods for Chromatin Analysis — Precipitating Protein, RNA & DNA from Chromatin Dr. John M. Rosenfeld, Platform Technology Manager, Merck-Millipore, USA
16:20-16:45	Title: The Human DEK Oncoprotein: An Abundant Non-Histone Factor Vital for Global Chromatin Integrity
16:45-17:10	Dr. Ferdinand Kappes, Associate Professor, Xi'an Jiaotong-Liverpool University, China Title: Plant Homeodomain Finger Protein 2: A Novel Runx2 Regulator to Facilitate Bone Formation Dr. Yang-Sook Chun, Professor, Seoul National University, South Korea

Panel B4: Biomembrane Structure, Transmembrane Transport

Time: 15:30-16:50, April 26, 2015 (Sunday); Place: Room 732, 7th Floor, NIYCH

Dr. Sheng Ye, Professor, Life Sciences Institute, Zhejiang University, China
Chair's Introduction
Title: Dissecting the Transport Mechanism of the Light-Driven Ion Channel: Channelrhodopsin
Dr. Peter Hegemann, Professor, Humboldt-Universitaet zu Berlin, Germany
Title: The Principle of Cooperative Gating in a Calcium-Gated Potassium Channel
Dr. Sheng Ye, Professor, Life Sciences Institute, Zhejiang University, China
Title: The Physiology Role of CO in the Cardiovascular System
Dr. Yuchun Gu, Professor, Peking University, China



Panel B5: Emerging Signaling and Regulation

Time: 08:30-12:10, April 27, 2015 (Monday); Place: Room 737, 7th Floor, NIYCH

Chair Co-chair	Dr. Hameeda Sultana, Assistant Professor, Old Dominion University, USA Dr. Quanguang Zhang, Assistant Professor, Department of Neuroscience and Regenerative Medicine, Medical College of Georgia at Georgia Regents, USA
08:30-08:35	Chair's Introduction
08:35-09:00	Title: Protein Knockdown in vitro and in Mice Mediated by Endoplasmic Reticulum Retained Intrabodies
00.00.00.25	Dr. Thomas Böldicke, Scientist, Helmholtz Centre for Infection Research, Germany
09:00-09:25	Title: Novel Cyclic AMP Signaling Pathways in Cardiac Diseases Dr. Frank Lezoualc'h, Research Director, Inserm UMR-1048, Institute of Metabolic and Cardiovascular Diseases, University Toulouse III Paul Sabatier, France
09:25-09:50	Title: Degradation Mechanisms of the Tumor Suppressor PDCD4 in Hepatocellular Carcinoma Dr. Jinghe Xia, Researcher, Saga University, Japan
09:50-10:15	Title: Single Particular Analysis on the Plant Blue Light Receptor Phototropin 1 and Its Signal Transducer NPH3
	Dr. Yinglang Wan, Associate Professor, Beijing Forestry University, China
10:15-10:30	Coffee Break
10:30-10:55	Title: Atmin Mediates Kidney Morphogenesis by Modulating Wnt Signalling
	<i>Dr. Paraskevi Goggolidou,</i> Lecturer, Genetics and Molecular Biology, Kingston University London, UK
10:55-11:20	Title: Semaphorins as Potential Therapeutics against Arthropod-Borne Diseases
	Dr. Hameeda Sultana, Assistant Professor, Old Dominion University, USA
11:20-11:45	<i>Title:</i> Attenuation of Mitochondrial and Nuclear p38* Signaling: A Novel Mechanism of Estrogen Neuroprotection in Cerebral Ischemia
	<i>Dr. Quanguang Zhang,</i> Assistant Professor, Department of Neuroscience and Regenerative Medicine, Medical College of Georgia at Georgia Regents, USA
11:45-12:10	Title: A Janus Kinase from Litopenaeus Vannamei is the JAK/STAT Signalling Pathway Target Gene and Involved in Antiviral Immunity Response Ms. Xuan Song, Sun Yat-sen University, China

Panel B6: Autophagy, Necroptosis and Apoptosis

Time: 08:30-11:20, April 27, 2015 (Monday); Place: Room 732, 7th Floor, NIYCH

Chair	Dr. Cécile Vindis, Research Director, INSERM UMR 1048, Toulouse University, France
08:30-08:35	Chair's Introduction
08:35-09:00	Title: AKT/mTOR and c-JunN-terminal Kinase Signaling Pathways are Required for Chrysotile Asbestos-Inducedautophagy
	Dr. Gang Liu, Director, Clinical Medical Research Center, Guangdong Medical Collage, China
09:00-09:25	Title: Terazosin Activated Pgk1 and Hsp90 to Promote Stress Resistance
	Dr. Lei Liu, Professor, Capital Medical University, China
09:25-09:50	Title: Mitophagy and Apoptosis Connexion, Role in Cardiovascular Diseases
	Dr. Cécile Vindis, Research Director, INSERM UMR 1048, Toulouse University, France
09:50-10:15	Title: Mathematical Modeling of Anti-Apoptotic Signaling Pathways in Prostate Cancer
	Dr. Xiaoqiang Sun, Instructor, Sun Yat-sen University, China
10:15-10:30	Coffee Break



10:30-10:55	Title: Autophagy Suppresses HCC Tumorigenesis through Selective Degradation of Oncogenic
	Factors
	Dr. Hsiao-Sheng Liu, Distinguished Professor, National Cheng Kung University, Taiwan
10:55-11:20	Title: Huwe1 and Hausp Regulate the Function of the Tumor Suppressor Tip60
	Dr. Siqing Zhang, Professor, State Key Laboratory of Cellular Stress Biology and School of Life
	Sciences, Xiamen University, China

Panel B7: Cell Mechanics

Time: 11:20-12:25, April 27, 2015 (Monday); Place: Room 735, 7th Floor, NIYCH

Chair Co-Chair	<i>Dr. Anasuya Roychowdhury,</i> Assistant Professor, Indian Institute of Technology Bhubaneswar, India <i>Dr. Takuma Sugi,</i> Assistant Professor, Kyoto University, Japan
11:20-11:25	Chair's Introduction
11:25-11:45	Title: Cytomechanical Aspects of Energy Metabolism
	Dr. Jürgen Bereiter-Hahn, Professor, Kinematic Cell Research Group, Biocenter, Goethe-University
	Frankfurt am Main, Germany
11:45-12:05	Title: ATPases: Smart Mechanics to Work Diverse
	Dr. Anasuya Roychowdhury, Assistant Professor, Indian Institute of Technology Bhubaneswar, India
12:05-12:25	Title: Neural Circuit Encoding Mechanosensory Habituation in C. elegans
	Dr. Takuma Sugi, Assistant Professor, Kyoto University, Japan

Panel B8: Gene Expression and Regulation

Time: 13:30-15:15, April 27, 2015 (Monday); Place: Room 737, 7th Floor, NIYCH

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Chair	<i>Dr. Patrick Xuechun Zhao,</i> Associate Professor, Plant Biology Division, The Samuel Roberts Noble Foundation, USA
Co-Chair	<i>Dr. Maryam Eslami,</i> Research Vice President, Tehran Paramedical School, Islamic Azad University, Iran
13:30-13:35	Chair's Introduction
13:35-14:00	Title: Large-Scale Gene Association Network Inference and Functional Module Discovery in Plants Dr. Patrick Xuechun Zhao, Associate Professor, Plant Biology Division, The Samuel Roberts Noble Foundation, USA
14:00-14:25	Title: Separation of a Functional Sgf73-DUBm from the SAGA Complex by the Proteasome Regulatory Particle Dr. Sungsu Lim, Center for Neuro-Medicine, Korea Institute of Science and Technology Korea,
	South Korea
14:25-14:50	Title: Collagen 1 and Elastin Genes Expression of Mitral Valvular Interstitial Cells in MicroFiber Reinforced Hydrogel
	Dr. Maryam Eslami, Research Vice President, Tehran Paramedical School, Islamic Azad University, Iran
14:50-15:15	Title: The Anti-Inflammatory Activity of Rice Bran Functional Components Dr. Kinmu Lee, Professor & Director, Central Taiwan University of Science & Technology, Taiwan



Panel B9: Cell Cycle and Cell Division

Time: 13:30-17:10, April 27, 2015 (Monday); Place: Room 735, 7th Floor, NIYCH

Chair	Dr. Ernest Y.C. Lee, Professor, New York Medical College, USA
13:30-13:35 13:35-14:00	Chair's Introduction Title: Cell Cycle Regulation of DNA Polymerase * by CRL4 ^{Cdt2} which Targets the p12 Subunit
14:00-14:25	for Degradation during G1/S Dr. Ernest Y.C. Lee, Professor, New York Medical College, USA Title: Targeting Chromosomal Instability
14.05.14.50	Dr. Stephen Gregory, Senior Postdoctoral Fellow & Head, Department of Genetics, University of Adelaide, Australia
14:25-14:50	Title: yciB Encoding an Inner Membrane Protein of Unknown Function is Involved in Cell Elongation and Division in Escherichia Coli Ms. Noor Afiza Badaluddin, Research Scientist, Kobe University, Japan
14:50-15:15	Title: Spindle Assembly Checkpoint and Aurora-A Kinase Activity Dr. Claude Prigent, Director, Institute of Genetics and Development of Rennes, UMR 6290 CNRS University of Rennes 1, France
15:15-15:30	Coffee Break
15:15-15:30 15:30-15:55	Title: Functional Characterization of Spindle Assembly Checkpoint in Oocytes Dr. Martin Anger, Research Group Leader, Central European Institute of Technology – CEITEC,
	Title: Functional Characterization of Spindle Assembly Checkpoint in Oocytes Dr. Martin Anger, Research Group Leader, Central European Institute of Technology – CEITEC, Veterinary Research Institute, Czech Republic Title: Emerging Roles of the Mediator Complex in the Control of the Cell Cycle and Periodic Transcription
15:30-15:55 15:55-16:20	Title: Functional Characterization of Spindle Assembly Checkpoint in Oocytes Dr. Martin Anger, Research Group Leader, Central European Institute of Technology – CEITEC, Veterinary Research Institute, Czech Republic Title: Emerging Roles of the Mediator Complex in the Control of the Cell Cycle and Periodic Transcription Dr. Zsolt Szilagyi, Research Scientist, Department of Medical Biochemistry and Cell Biology, University of Gothenburg, Sweden
15:30-15:55	Title: Functional Characterization of Spindle Assembly Checkpoint in Oocytes Dr. Martin Anger, Research Group Leader, Central European Institute of Technology – CEITEC, Veterinary Research Institute, Czech Republic Title: Emerging Roles of the Mediator Complex in the Control of the Cell Cycle and Periodic Transcription Dr. Zsolt Szilagyi, Research Scientist, Department of Medical Biochemistry and Cell Biology, University of Gothenburg, Sweden Title: Inhibition of Cortical Myosin Recruitment by Astral Microtubules Dr. Yu Chung Tse, Associate Professor, Shenzhen Key Laboratory of Cell Microenvironment &
15:30-15:55 15:55-16:20	Title: Functional Characterization of Spindle Assembly Checkpoint in Oocytes Dr. Martin Anger, Research Group Leader, Central European Institute of Technology – CEITEC, Veterinary Research Institute, Czech Republic Title: Emerging Roles of the Mediator Complex in the Control of the Cell Cycle and Periodic Transcription Dr. Zsolt Szilagyi, Research Scientist, Department of Medical Biochemistry and Cell Biology, University of Gothenburg, Sweden Title: Inhibition of Cortical Myosin Recruitment by Astral Microtubules

Panel B10: Plant & Bacteria Cell Walls

Time: 10:30-11:50, April 28, 2015 (Tuesday); Place: Room 738, 7th Floor, NIYCH

Chair	<i>Dr. Chandrashekhar P. Joshi</i> , Professor & Chairman, Department of Biological Sciences, Michigan Technological University, USA
10:30-10:35	Chair's Introduction
10:35-11:00	Title: Genetic Improvement of Plant Cell Walls for BetterBioenergy Production
	<i>Dr. Chandrashekhar P. Joshi</i> , Professor & Chairman, Department of Biological Sciences, Michigan Technological University, USA
11:00-11:25	Title: Changes in Cell Wall Properties Coincide with Overexpression of Extesin Fusion Proteins in Suspension Cultured Tobacco Cell
	<i>Dr. Li Tan,</i> Principal Investigator, Complex Carbohydrate Research Center, University of Georgia, USA
11:25-11:50	<i>Title:</i> Super-Resolution Microscopy in Visualizing the 3D Polymer Structure of Cell Walls and Related Protein Complexes
	Dr. Christian A. Voigt, Assistant Professor, University of Hamburg, Germany



Quest C: Advances in RNA Biology

Panel C1: Non-coding RNAs

Time: 08:30-10:15, April 26, 2015 (Sunday); Place: Room 737, 7th Floor, NIYCH

Chair	Dr. Ge Shan, Professor, University of Science and Technology of China, China
08:30-08:35	Chair's Introduction
08:35-08:55	Title: A New Species of ncRNA Regulates Gene Expression with a Novel Mechanism
	Dr. Ge Shan, Professor, University of Science and Technology of China, China
08:55-09:15	Title: Long Noncoding RNAs in Cancer Drug Resistance
	Dr. Xiangting Wang, Professor, University of Science and Technology of China, China
09:15-09:35	Title: Functional Long Non-coding RNAs Connect Nuclear RNA Surveillance with Epigenetic
	Regulation
	Dr. Huiming Zhang, Principle Investigator, Shanghai Center of Plant Stress Biology, China
09:35-09:55	Title: The Regulatory Role of Bacterial 5' Untranslated Regions in Sensing Metal Ions
	Dr. Yixin Shi, Assistant Professor, Arizona State University, USA
09:55-10:15	Title: Three-dimensional Regulation of Transcription in Brain Aging
	Dr. Xiaoyuan Song, Professor, University of Science & Technology of China, China

Panel C2: Mechanisms of RNAi and MicroRNAs

Time: 13:30-14:50, April 26, 2015 (Sunday); Place: Room 737, 7th Floor, NIYCH

Chair	Dr. Joanna Rzeszowska-Wolny, Professor, Silesian University of Technology, Poland
13:30-13:35	Chair's Introduction
13:35-14:00	Title: Mechanisms Modulating RNA Transcript Levels in Stressed Cells
	Dr. Joanna Rzeszowska-Wolny, Professor, Silesian University of Technology, Poland
14:00-14:25	Title: MicroRNA-122 Mediated Regulatory Networks
	Dr. Ann-Ping Tsou, Professor, National Yang-Ming University, Taiwan
14:25-14:50	Title: *-Blocker Carvedilol Protects Cardiomyocytes against Oxidative Stress-Induced Apoptosis
	by Up-Regulating miR-133 Expression
	Dr. Yong Zhang, Professor, Harbin Medical University, China

Panel C3: RNA and Disease & Therapeutics

Time: 15:30-16:25, April 26, 2015 (Sunday); Place: Room 737, 7th Floor, NIYCH

Chair	Dr. Jingfang Ju, Co-Director & Associate Professor, Translational Research Laboratory, Stony Brook University, USA
15:30-15:35	Chair's Introduction
15:35-16:00	Title: MicroRNA-26a Prevents Endothelial Cell Apoptosis by Directly Targeting TRPC6 in the Setting of Atherosclerosis
	Dr. Wei Qin, Lecturer, Harbin Medical University, China
16:00-16:25	Title: Non-coding RNAs as the Next Frontier in Clinical Cancer Management
	<i>Dr. Jingfang Ju</i> , Co-Director & Associate Professor, Translational Research Laboratory, Stony Brook University, USA



Panel C4: RNA Processing & Regulation

Time: 10:30-11:50, April 27, 2015 (Monday); Place: Room 733, 7th Floor, NIYCH

Chair	Dr. Ruth Sperling, Head of Research Group, The Hebrew University of Jerusalem, Israel
10:30-10:35	Chair's Introduction
10:35-11:00	<i>Title:</i> Suppression of Splicing (SOS) – A Quality Control Mechanism Affecting Alternative Splicing within the Supraspliceosome
	Dr. Ruth Sperling, Head of Research Group, The Hebrew University of Jerusalem, Israel
11:00-11:25	Title: Biogenesis and Function of Mammalian Pachytene PiRNAs
	Dr. Ke Zheng, Professor, State Key Laboratory of Reproductive Medicine, Nanjing Medical University,
	China
11:25-11:50	Title: Eggplant miR395 is Involved in Plant Response to Verticillium Dahliae Infection
	Dr. Qing Yang, Professor, College of Life Sciences, Nanjing Agricultural University, China

Quest D: Fascinating Stem Cells

Panel D1: Frontier of Mesenchymal Stem Cells

Time: 13:30-15:15, April 26, 2015 (Sunday); Place: Room 733, 7th Floor, NIYCH

Chair	Dr. Raphael Gorodetsky, Head, Biotechnology & Radiobiology Lab; Sharett Institute of Oncology, Hadassah - Hebrew University Medical Center, Israel
13:30-13:35	Chair's Introduction
13:35-13:55	Title: Placental Cells Therapy Induce Regeneration of Compromised Bone Marrow, Mitigation of Acute Radiation Syndrome and Tissue Regeneration in Different Inflammatory Conditions Dr. Raphael Gorodetsky, Head, Biotechnology & Radiobiology Lab, Sharett Institute of Oncology, Hadassah - Hebrew University Medical Center, Israel
13:55-14:15	Title: Biological Characteristics and Gene Expression Pattern of Bone Marrow Mesenchymal Stem Cells in Patients with Psoriasis Mrs. Ruixia Hou, Researcher, Taiyuan City Central Hospital, China
14:15-14:35	Title: Bone Marrow Mesenchymal Stem and Progenitor Cells are Altered in Sipa1 Deficient Mice before Initiation of Myeloproliferative Neoplasm
14:35-14:55	Dr. Hong Qian, Leader, Karolinska Institute, Sweden Title: Evaluation of Umbilical Cord Mesenchymal Stem Cell-Mediated Induction of Cytotoxicity and Apoptosis in Cancer Cell Lines – K562, A549 - After Activation with IFN* and in Combination with Doxorubicin Dr. Hojjat Sadeghi-Aliabadi, Director of Cell Culture Lab, Isfahan University of Medical Sciences,
14:55-15:15	Iran Title: Role of High-Density Lipoproteins in the Regulation of Hematopoietic Stem/Progenitor Cells in Atherosclerosis Dr. Yingmei Feng, Vice Director, Capital Medical University, China; Group Leader, Leuven University, Belgium



Panel D2: Regulation of Stem Cell

Time: 08:30-09:25, April 27, 2015 (Monday); Place: Room 738, 7th Floor, NIYCH

Chair Dr. Yingli Sun, Director, Beijing Institute of Genomics, Chinese Academy of Sciences, China

08:30-08:35 Chair's Introduction

08:35-09:00 Title: Induced Pluripotent Stem Cells are Sensitive to DNA Damage

Dr. Yingli Sun, Director, Beijing Institute of Genomics, Chinese Academy of Sciences, China

09:00-09:25 Title: NFI-X Promotes the Commitment of Radial Glial Cells to Neuron Production during Hippocampal

Morphogenesis

Mr. Lachlan Harris, The School of Biomedical Sciences, Queensland Brain Institute, University

of Queensland, Australia

Panel D3: Reprogramming and Direct Reprogramming or Transdifferentiation

Time: 13:30-14:25, April 27, 2015 (Monday); Place: Room 738, 7th Floor, NIYCH

Chair Dr. Muy-Teck Teh, Senior Lecturer in Head & Neck Cancer, Queen Mary University of London,

UK

13:30-13:35 Chair's Introduction

13:35-14:00 Title: Intercellular Reprogramming by Cancer Exosomes

Dr. Muy-Teck Teh, Senior Lecturer in Head & Neck Cancer, Queen Mary University of London,

UK

14:00-14:25 Title: Genes and Environmental Risk Factors in Keratoconus

Dr. Jenny Parameshvara Deva, Clinical Professor Ophthalmology, University Tunku Abdul

Rahman(UTAR), Malaysia

Quest E: Cell Energy and Metabolism

Panel E1: Metabolic Pathways and Networks

Time: 08:30-10:35, April 26, 2015 (Sunday); Place: Room 733, 7th Floor, NIYCH

Chair Dr. Shunlin Ren, Professor & Research Career Scientist, McGuire VA Medical Center & Virginia

Commonwealth University, USA

08:30-08:35 Chair's Introduction

08:35-08:55 Title: Redox-Driven Proton Pumps: Complex I and Complex IV of the Respiratory Chain. Insights

from Computer Simulations

Dr. Alexei A. Stuchebrukhov, Professor, Department of Chemistry, University of California at Davis,

USA

08:55-09:15 Title: Metabolic Cross-Talk between Nitrogenase and Hydrogenase in Rhodobacter sphaeroides

during Photofermentation and Hydrogen Production

Dr. Armen Trchounian, Head of Department & Principal, Yerevan State University, Armenia

09:15-09:35 Title: Production of Omega-3 Eicosapentaenoic Acid by Metabolic Engineering of an Oleaginous

Yeast, Yarrowia Lipolytica

Dr. Quinn Zhu, Technical Lead & Senior Fellow, DuPont Company, USA

09:35-09:55 Title: Structural and Functional Peculiarities of Bacterial Hydrogenases during Mixed-Acid

Fermentation

Dr. Karen Trchounian, Researcher, Department of Biophysics, Faculty of Biology, Yerevan State

University, Armenia



09:55-10:15	Title: Kinin B1 Receptors: A Novel Therapeutic Target in Pulmonary Inflammation
	Dr. Dongmei Wu, Professor, Chonbuk National University, South Korea
10:15-10:35	Title: Novel Cholesterol Metabolite for Therapy of Fatty Liver Diseases
	Dr. Shunlin Ren, Professor & Research Career Scientist, McGuire VA Medical Center & Virginia
	Commonwealth University, USA

Panel E2: Free Radicals

Time: 10:35-12:20, April 26, 2015 (Sunday); Place: Room 733, 7th Floor, NIYCH

Chair	Dr. Steven Y Qian, Associate Professor, North Dakota State University, USA
10:35-10:40	Chair's Introduction
10:40-11:00	Title: Molecular Mechanisms and Redox Signaling in Cigarette Smoke Associated Breakdown of Muscle Proteins
	<i>Dr. Abraham Z. Reznick,</i> Past Director, Department of Anatomy and Cell Biology, Faculty of Medicine, Technion-Israel Institute of Technology, Israel
11:00-11:20	Title: Effects of Redox Status on Cellular Function Using G6PD-deficient Cells as Model Dr. Daniel Tsun-Yee Chiu, Director, Healthy Aging Research Center, Chang Gung University, Taiwan
11:20-11:40	Title: New Paradigm for Targeting COX-Catalyzed Free Radical Peroxidation in Colon Cancer Dr. Steven Y Qian, Associate Professor, North Dakota State University, USA
11:40-12:00	Title: Melatonin, Nitric Oxide and the Warburg Effect Dr. Maria Chiara Magnifico, Sapienza University of Rome, Italy
12:00-12:20	Title: Exercise Improves Endothelial Function: A Local Analysis of Production of Nitric Oxide and Reactive Oxygen Species
	Dr. Leonardo Yuji Tanaka, Fellow, Heart Institute, University of Sao Paulo, Brazil

Panel E3: Cancer Cell Metabolism

Chair

Time: 13:30-15:15, April 26, 2015 (Sunday); Place: Room 732, 7th Floor, NIYCH

	China
13:30-13:35	Chair's Introduction
13:35-14:00	Title: Proline and Metabolic Epigenetics in Cancer
	<i>Dr. James M. Phang,</i> Senior Investigator, Basic Research Laboratory, National Cancer Institute at Frederick, USA
14:00-14:25	Title: Targeting Na-K Atpase and Oxidative Damage in Cancer Therapy
	Dr. Chia-chi Liu, Research Fellow, University of Sydney, Australia
14:25-14:50	Title: The Ribosomal Protein-Mdm2-p53 Pathway Links Nutrient Stress to Lipid Metabolism, Obesity and Cancer
	Dr. Yanping Zhang, Professor, The University of North Carolina at Chapel Hill, USA
14:50-15:15	Title: miRNAs in Regulation of Cellular Metabolism
	Dr. Ping Gao, Professor, School of Life Sciences, University of Science and Technology of China,
	China

Dr. Ping Gao, Professor, School of Life Sciences, University of Science and Technology of China,



Panel E4: Mitochondria

Time: 08:30-11:20, April 27, 2015 (Monday); Place: Room 735, 7th Floor, NIYCH

Chair	<i>Dr. Katsuyoshi Mihara,</i> Professor Emeritus, Department of Molecular Biology, Graduate School of Medical Science, Kyushu University, Japan
08:30-08:35	Chair's Introduction
08:35-09:00	<i>Title:</i> Oxidative Folding and Redox Regulation of Protein Biogenesis in the Mitochondrial Intermembrane Space
	Dr. Kostas Tokatlidis, Cathcart Chair of Biochemistry, University of Glasgow, UK
09:00-09:25	Title: The Deficiency of Histidine Enhances the Delay of Wound Healing Caused by Indomethacin through the Mitochondrial Dysfunction
	<i>Dr. Hiroshi Ichikawa,</i> Professor, Doshisha University, Kyoto Prefectural University, Kyoto Prefectural University of Medicine, Japan
09:25-09:50	Title: Functional Significance of Mitochondrial Fission Factor Drp1
	<i>Dr. Katsuyoshi Mihara,</i> Professor Emeritus, Department of Molecular Biology, Graduate School of Medical Science, Kyushu University, Japan
09:50-10:15	Title: Multiple Facets of Mitochondrial Fatty Acid Synthesis
	<i>Dr. J. Kalervo Hiltunen,</i> Professor of Biochemistry, Faculty of Biochemistry and Molecular Medicine and Biocenter Oulu, University of Oulu, Finland
10:15-10:30	Coffee Break
10:30-10:55	Title: Mitochondrial Function and Regulation of Macrophage Cholesterol Homeostasis Dr. Annette Graham, Professor, Vascular Cell Biology, Glasgow Caledonian University, UK

Panel E5: Photosynthesis and Chloroplasts

10:55-11:20

Time: 15:30-17:40, April 27, 2015 (Monday); Place: Room 738, 7th Floor, NIYCH

Title: Influenza a Viral Protein PB1-F2 and Mitochondria

Dr. Takumi Koshiba, Associate Professor, Kyushu University, Japan

Chair	Dr. Su Lin, Associate Research Professor, Arizona State University, USA
15:30-15:35	Chair's Introduction
15:35-16:00	Title: Coherence and Population Dynamics in Photosynthetic Pigment-Proteins as Follows from
	Two-Dimensional Spectroscopy Studies
	Dr. Leonas Valkunas, Head of the Department of Theoretical Physics, Faculty of Physics, Vilnius University, Lithuania
16:00-16:25	Title: The Architecture and Function of the Light-Harvesting Network in Photosynthetic Membranes
	Dr. Su Lin, Associate Research Professor, Arizona State University, USA
16:25-16:50	Title: Electron, Proton and Water Transfer along the Catalytic Cycle of the Photosystem II
	Dr. Daniele Narzi, Research Fellow, University of L'Aquila, Italy
16:50-17:15	Title: Complex Interplay among DNA Modification, Noncoding RNA Expression and Protein-Coding
	RNA Expression in Salvia Miltiorrhiza Chloroplast Genome
	Dr. Chang Liu, Professor, Chinese Academy of Medical Sciences & Peking Union Medical College,
	China
17:15-17:40	Title: Mediator Assisted Charge Transport in Thylakoids
	Dr. Fulin Zuo, Professor, Department of Physics, University of Miami, USA



Panel E6: Aging

Time: 10:15-11:20, April 28, 2015 (Tuesday); Place: Room 703, 7th Floor, NIYCH

Chair Dr. Juergen Suehnel, Group Leader, Leibniz Institute for Age Research – Fritz Lipmann Institute,

Germany

10:15-10:20 Chair's Introduction

10:20-10:40 Title: Exercise Induces Tumor Resistance in Aging Stromal Cells

Dr. Warren Ladiges, Professor, University of Washington, USA

10:40-11:00 Title: Towards Data Integration in Ageing Research

Dr. Juergen Suehnel, Group Leader, Leibniz Institute for Age Research - Fritz Lipmann Institute,

Germany

11:00-11:20 Title: Oligosaccharide Improves Aberrant Immune Response in Brain Aging and Neurodegeneration

Dr. Xu Xu, Associate Professor, Shenzhen University, China

Quest F: Emerging Cell Technologies

Panel F1: Cell and Sub-cell Imaging and Visualization

Time: 10:30-12:15, April 26, 2015 (Sunday); Place: Room 737, 7th Floor, NIYCH

Chair Dr. Lixin Liu, Associate Professor, Department of Pharmacology, University of Saskatchewan,

Canada

10:30-10:35 Chair's Introduction

10:35-11:00 Title: Endothelial Cell Intracellular Molecule LSP1 Regulates Neutrophil Recruitment: An Intravital

Microscopy Study

Dr. Lixin Liu, Associate Professor, Department of Pharmacology, University of Saskatchewan,

Canada

11:00-11:25 Title: The Role of Sterols on the Effects Induced by the Pore-Forming Agent Nystatin in Giant

Phospholipid Vesicles

Dr. Gregor Gomiscek, Researcher, Institute of Biophysics, Faculty of Medicine & Faculty of Health

Sciences, University of Ljubljana, Slovenia

11:25-11:50 Title: Identification of Prion-like Tau Species Triggering Endogenous Tau Aggregation and

Phosphorylation

Ms. Dohee Kim, Center for Neuro-Medicine, Korea Institute of Science and Technology, South

Korea

11:50-12:15 Title: Microcapillary Flow Cytometry, Not Hydrodynamic Focusing, For Investigating Symbiosis

between an Eukaryotic Host and Eukaryotic Symbionts

Dr. Toshiyuki Takahashi, Associate Professor, National Institute of Technology, Miyakonojo College,

Japan

Panel F2: Single Cell Technologies and Nanotechnologies

Time: 13:30-15:15, April 26, 2015 (Sunday); Place: Room 735, 7th Floor, NIYCH

Chair Dr. Richard E. Palmer, Head, Nanoscale Physics Research Laboratory; Professor, University of

Birmingham, UK

13:30-13:35 Chair's Introduction

13:35-14:00 Title: Single Cell Genomics Accelerates Next Generation of in vitro Diagnosis and Drug Discovery

Dr. Xinghua Pan, Research Scientist, Yale University, USA



14:00-14:25	Title: Genome-Wide Digital mRNA Counting Using "Molecular Barcoding" and Its Application for Differentiation Study
	Dr. Katsuyuki Shiroguchi, Lab Leader, Laboratory for Quantitative Omics, RIKEN Center for
	Integrative Medical Sciences, Japan
14:25-14:50	Title: Aberration-Corrected Electron Microscopy for Bio-Imaging
	Dr. Richard E. Palmer, Head, Nanoscale Physics Research Laboratory; Professor, University of
	Birmingham, UK
14:50-15:15	Title: Fibroblasts as a Bio-Cellular Model for Studying Amino Acids Transport in Schizophrenia,
	Bipolar and Related CNS Disorders
	Dr. Nikolaos Venizelos, Director, Örebro University, Sweden

Panel F3: CRISPR/Cas Systems

Time: 08:30-10:15, April 28, 2015 (Tuesday); Place: Room 738, 7th Floor, NIYCH

Chair	Dr. Bo Yu, Co-Founder & CSO, Larix Bioscience, LLC, USA
08:30-08:35	Chair's Introduction
08:35-09:00	Title: CRISPR-Mediated Double Allele Knock Out (DAKO) Technology in Mammalian Cells
	Dr. Bo Yu, Co-Founder & CSO, Larix Bioscience, LLC, USA
09:00-09:25	Title: Computer-Assisted Choice of Cas9 Nuclease Target Sites for Efficient and Precise Genome
	Editing
	Dr. Sangsu Bae, Assistant Professor, Department of Chemistry, Hanyang University, South Korea
09:25-09:50	Title: An Efficient Pipeline for Genome Editing by Combining FACS Enrichment of CRISPR/Cas9
	Expressing Cells with a Novel Indel Mutation Assay
	Dr. Morten Frödin, Associate Professor, Biotech Research and Innovation Centre, University of
	Copenhagen, Denmark
09:50-10:15	Title: Efficient Production of Genome-Edited Cell Lines and Animals Using RNA-Guided Engineered
	Nucleases (RGEN)
	Dr. Seokjoong Kim, Research Scientist Director, ToolGen, INC., South Korea

Quest G: Translational Molecular & Cell Biology

Panel G1: Role of Molecular & Cell Biology in Translational Medicine

Time: 08:30-12:35, April 26, 2015 (Sunday); Place: Room 735, 7th Floor, NIYCH

Chair Co-Chair	<i>Dr. Ya-Gang Xie,</i> Professor, Faculty of Medicine, Memorial University of Newfoundland, Canada <i>Dr. Dwijendra Gupta,</i> Vice Chancellor, Jai Prakash University; Former Chairman of Biochemistry and Bioinformatics, University of Allahabad, India
08:30-08:35	Chair's Introduction
08:35-09:00	Title: Immunological Reactivity of Drug Abusers
	Dr. Bogdan Petrunov, Professor, National Center of Infectious and Parasitic Diseases and Emergency
	Hospital "Pirogov" ^{2 1} , Bulgaria
09:00-09:25	Title: RASL-seq for Breast Cancer PAM50 Intrinsic Subtypes
	Dr. Zhiyuan Hu, Director, Rapid Adoption Molecular Laboratory, University of North Carolina at
	Chapel Hill, USA
09:25-09:50	Title: Replication of GWAS Candidate Genes for Cardiovascular Diseases in Ethnic Different
	Populations
	Dr. Ya-Gang Xie, Professor, Faculty of Medicine, Memorial University of Newfoundland, Canada



09:50-10:15	Title: Necrotic Inflammation: A Novel Class of Necrosis Inhibitor NecroX-7 with Therapeutic Potential for Necrosis-Related Diseases against Ischemic Reperfusion Injury Dr. Soon Ha Kim, NecroX Program Director, LG Life Sciences, Ltd., South Korea
10:15-10:30	Coffee Break
10:30-10:55	Title: Extracellular Vesicles in Cancer and Potential for Therapy — Studies on Exosomes from Human Sera Dr. Dwijendra Gupta, Vice Chancellor, Jai Prakash University; Former Chairman, Biochemistry
10.55 11.20	and Bioinformatics, University of Allahabad, India
10:55-11:20	Title: Antiviral Regulation in Porcine Monocytic Cells at Different Activation States Dr. Yongming Sang, Assistant Professor & Principle Investigator, Kansas State University, USA
11:20-11:45	Title: IL-17: The Potential Therapeutic Target in Chronic Obstructive Pulmonary Diseases Dr. Ying Chang, Group Leader, Xi'an Jiaotong University, China
11:45-12:10	Title: Monocytes as Target Cells for Identification of Novel Biomarkers and Targets of Intervention in Metabolic Diseases
	Dr. Paul Holvoet, Head, Katholieke Universiteit Leuven, Belgium
12:10-12:35	Title: New Insights into Targeting Cyclin-Dependent Kinases for Cancer Therapy Dr. Shudong Wang, Head, Centre for Drug Discovery and Development, University of South Australia, Australia

Panel G2: Tissue Repair & Regeneration

Time: 11:00-12:25, April 26, 2015 (Sunday); Place: Room 738, 7th Floor, NIYCH

Chair	<i>Dr. Raphael Gorodetsky,</i> Head, Biotechnology & Radiobiology Lab; Sharett Institute of Oncology, Hadassah - Hebrew University Medical Center, Israel
11:00-11:05	Chair's Introduction
11:05-11:25	Title: Fibrin Microbeads (FMB) Cell Carriers for Isolation and Implantation of Adult Progenitor
	Cells
	Dr. Raphael Gorodetsky, Head, Biotechnology & Radiobiology Lab, Sharett Institute of Oncology,
	Hadassah - Hebrew University Medical Center, Israel
11:25-11:45	Title: Proposal of Cooperative Medical and Clinical Epigenetic Studies
	Dr. Shigetaka Asano, Guest Research Professor, Waseda University, Japan
11:45-12:05	Title: Targeting Biomechanical Signaling in Lung Fibrosis
	Dr. Yong Zhou, Associate Professor, University of Alabama at Birmingham, USA
12:05-12:25	Title: The Biomechanical Study of Surface Modified PEEK Artificial Intervertebral Disc
	Dr. Peng Shang, Professor, Shenzhen Institutes of Advanced Technology (SIAT), Chinese Academy
	of Sciences (CAS), China

Panel G3: Translation of Animal Models to the Clinic

Time: 15:30-17:35, April 26, 2015 (Sunday); Place: Room 733, 7th Floor, NIYCH

Chair	Dr. Yufeng Pan, Principal Investigator, Institute of Life Sciences, Southeast University, China				
15:30-15:35	Chair's Introduction				
15:35-15:55	Title: GPCR Antibodies for Different Therapeutic Indications				
	Dr. Cheng Zhang, CSO, Gmax Biopharm, China				
15:55-16:15	Title: Mechanisms of Innate and Learned Sexual Behaviors in Drosophila				
	Dr. Yufeng Pan, Principal Investigator, Institute of Life Sciences, Southeast University, China				
16:15-16:35	Title: Structure, Biology and Therapeutic Potential of CDNF/MANF Family of Neurotrophic Factors				
	Dr. Mikko Airavaara, Team Leader, Institute of Biotechology, University of Helsinki, Finland				



16:35-16:55	<i>Title:</i> Revealing Mechanisms of Selective Vulnerability through Studies of Huntington's Disease, Fatal Familial Insomnia, And Creutzfeldt-Jakob Disease				
	Dr. Walker S. Jackson, Group Leader, German Center for Neurodegenerative Diseases (DZNE),				
	Germany				
16:55-17:15	Title: Liver Specific Over-Expressed NG37 Leads to Diet-Dependent Hepatic Enlargement				
	Accompanying Cardiac Dysfunction				
	Dr. Xuehong Xu, Professor, Shaanxi Normal University, China				
17:15-17:35	Title: The Zebrafish as a Model for Human Genetic Diseases and Drug Discovery				
	Dr. Yann Gibert, Head, The Metabolic Genetic Diseases Laboratory, Deakin School of Medicine,				
	Australia				

Panel G4: Neurodegeneration

Time: 15:30-17:15, April 26, 2015 (Sunday); Place: Room 735, 7th Floor, NIYCH

Chair	Dr. Rosita Gabbianelli, Associate Professor, University of Camerino, Italy				
15:30-15:35	Chair's Introduction				
15:35-15:55	Title: Huntington's Disease a Paradigmatic Neurodegenerative Disorder. On the Way to Neuroprotection				
	Dr. Jean-Marc Burgunder, Professor, University of Bern, Switzerland; Visiting Professor, West				
	China Hospital, University of Sichuan, China; Adjunct Professor, The First Affiliated Hospital, Sun				
	Yat-sen University, China				
15:55-16:15 Title: Early Biomarkers of Parkinson-Like Disease					
	Dr. Rosita Gabbianelli, Associate Professor, University of Camerino, Italy				
16:15-16:35	Title: Towards Perfect Anticancer Drug: And the Road Unknown				
	Dr. Roman Zubarev, Division Head, Karolinska Institute, Sweden				
16:35-16:55	Title: Glioma-Induced Neuronal Degeneration via Activating Tau Pathology				
	Dr. Yun Kyung Kim, Senior Research Scientist, Center for Neuro-Medicine, Korea Institute of				
	Science and Technology, South Korea				
16:55-17:15	Title: Failure of Redox Homeostasis during Prion Infection				
	Dr. Cathryn Haigh, Senior Research Fellow, Department of Pathology, The University of Melbourne,				
	Australia				

Panel G5: Tumor Invasion and Metastasis, Angiogenesis, Cancer Stem Cells

Time: 09:25-12:10, April 27, 2015 (Monday); Place: Room 738, 7th Floor, NIYCH

Chair	Dr. Lei Zheng, Assistant Professor, Johns Hopkins University School of Medicine, USA				
09:25-09:30	Chair's Introduction				
09:30-09:55	Title: STAT3 Activates *-catenin Signaling to Drive Initiation of Peripheral Nerve Tumors				
	Dr. Jianqiang Wu, Assistant Professor, Cincinnati Children's Hospital Research Foundation,				
	Cincinnati Children's Hospital, University of Cincinnati, USA				
09:55-10:20	Title: A Tumor Suppressor Network in Guarding the Genome				
	Dr. Wen H. Shen, Assistant Professor, Department of Radiation Oncology, Cornell University Weill				
	Medical College, USA				
10:20-10:30	Coffee Break				
10:30-10:55	Title: Dissect Tumor Microenvironment of Pancreatic Cancer				
	Dr. Lei Zheng, Assistant Professor, Johns Hopkins University School of Medicine, USA				
10:55-11:20	Title: Mitochondrial STAT3 in Ras-Driven Tumours				
	Dr. Daniel Gough, Head, STAT Cancer Biology Laboratory, MIMR-PHI Institute of Medical				
	Research, Australia				



11:20-11:45	Title: Detection of Circulating Tumour DNA (ctDNA) as a Biomarker for Childhood Solid
	Tumours
	Dr. Ping Wu, Senior Scientist, Institute of Child Health, University College of London, UK
11:45-12:10	Title: Independent Oncogenic and Therapeutic Significance of Phosphatase PRL-3 in FLT3-
	ITD-Negative Acute Myeloid Leukemia
	Dr. Haihe Wang, Professor, Sun Yat-sen University, China

Panel G6: Glia & Neurons

Time: 13:30-16:45, April 27, 2015 (Monday); Place: Room 733, 7th Floor, NIYCH

Chair Co-Chair	Dr. Chang Y. Chung, Associate Professor, Vanderbilt University School of Medicine, USA Dr. Lian Li, Professor & Vice Chair, Emory University, USA				
13:30-13:35	Chair's Introduction				
13:35-14:00	Title: Biochemical and Ultrastructural Analyses of Postsynaptic Density and Associated Structures in the Mammalian Brain				
14:00-14:25	Dr. Tatsuo Suzuki, Professor, Shinshu University, Japan Titlor Soutilin, Programment and Decomposition of Application of Appli				
14:00-14:23	Title: Sortilin Regulates Transport and Degradation of Amyloid Precursor Protein Dr. Xin-Fu Zhou, Research Chair in Neuroscience, University of South Australia, Australia				
14:25-14:50	Title: Role of Microglia in the Hippocampus of Chronic Stressed Mice				
11.20 11.00	Dr. Chang Y. Chung, Associate Professor, Vanderbilt University School of Medicine, USA				
14:50-15:15	Title: The Acute Responses of Glial Cells to Ischemia				
	Dr. Robert Fern, Professor, Peninsular School of Medicine and Dentistry, Plymouth University,				
	UK				
15:15-15:30	Coffee Break				
15:30-15:55	Title: Peripheral Neuropathy due to Myelin Infolding and Paranodal Damage in a Mouse Model of Charcot-Marie-Tooth Disease Type 1C				
	Dr. Lian Li, Professor & Vice Chair, Emory University, USA				
15:55-16:20	Title: The AMPA Receptors in a Synapse				
	Dr. Yun Shi, Professor, MOE Key Laboratory of Model Animal for Disease Study, Nanjing University, China				
16:20-16:45	<i>Title:</i> The Crystal Structure of Netrin-1 in Complex with DCC Reveals the Bi-functionality of Netrin-1 as a Guidance Cue				
	Dr. Lorenzo I. Finci, Postdoctoral Scientist, Peking University, China; Harvard Medical School, USA				

Panel G7: Anemia and Red Blood Cells

Time: 11:20-12:25, April 28, 2015 (Tuesday); Place: Room 703, 7th Floor, NIYCH

Chair	Dr. Lin Yang, Professor, The Cyrus Tang Hematology Center, Soochow University, China
11:20-11:25	Chair's Introduction
11:25-11:45	Title: Targeting Leukemic Stem Cells in Fanconi Anemia
	Dr. Qishen Pang, Professor of Pediatrics, Scholar, Leukemia and Lymphoma Society, Cincinnati
	Children's Hospital Medical Center, USA
11:45-12:05	Title: Tight Junction Protein 1 is a Modulator and Biomarker of Proteasome Inhibitor Sensitivity
	in Multiple Myeloma through EGFR/JAK1/STAT3 Signaling
	Dr. Lin Yang, Professor, The Cyrus Tang Hematology Center, Soochow University, China
12:05-12:25	Title: ADAMTS13 Variants in Atypical Hemolytic Uremic Syndrome
	Dr. Shuju Feng, Assistant Professor, University of Texas M.D. Anderson Cancer Center & University
	of Iowa, USA