May 28-31, 2013 • Marina Bay Sands, Singapore

Keynote Speakers:

Sir David Lane, Ph.D., Chief Scientist, A*STAR and Director, p53 Laboratory

Paul Tam, Ph.D., Pro-Vice-Chancellor and Vice-President, The University of Hong Kong

Jimmy Lin, M.D., Ph.D., MHS, Founder and President, Rare Genomics Institute; Research Instructor, Washington University in St. Louis

Bogi Eliasen, Program Director, FarGen, Ministry of Health, Faroe Islands

Sanjay Navani, M.D., Surgical Pathologist and Immunohistochemist, LAB SURPASHT; Site Director, The Human Protein Atlas (HPA) Project

Prof. B. Venkatesh, Ph.D., Research Director, Institute of Molecular and Cell Biology (IMCB), A*STAR

IT Infrastructure & The Cloud

NGS Applications

Bioinformatics & Cancer Genomics

Antibody Engineering Asia

Clinical Data Management and eClinical Trials

Molecular Diagnostics

Register by April 19th to Save!

Bio-ITWorldAsia.com

TriConferenceAsia.com
Dinner Short Courses*

Short Course 1: (May 29 18:00-20:00)
**Keys to Cyber Security Awareness and Effective Security Policy**

*Chip Morgan, Managing Partner, Information Services Bureau*

This course will introduce the historical and present context of cyber risks, help you to understand your information architecture, and recognize and mitigate common user-based risks. You will also learn about designing and implementing advanced cyber security policies, and risk evaluation and scenario-based resolution techniques.

Short Course 2: (May 29 18:00-20:00)
**Introduction to electronic Trial Master files (eTMf) and TMF Reference Model**

*Allan Bukuya, Clinical Operations Director, TrialDocs Pty Ltd*

Clinical trial documentation reflects the quality and compliance of project execution. This course relates to improved document management for clinical trial processes. Allan will introduce you to developments in clinical trial documentation management and global standardisation of the Trial Master File. Historically we have represented trial management through paper trial master files. We will review aspects of paper TMFs to support greater efficiencies and highlight necessary changes in thinking as your organisation transitions to an e-TMF. Simplify your documentation processes, make your content more transparent to colleagues and clients and enhance your document quality.

Short Course 3: (May 30 17:30-19:30)
**Next-Gen Sequencing - Behind the Scenes from Sample to Sequence to NGS Data Analysis**

*Nandita Mullapudi, Ph.D. Principal Scientist & Group Leader - Next-Gen Sequencing Lab, Genotypic Technology Pvt Ltd
Lavanya Veeravalli, Bioinformatics Specialist, Genome Institute of Singapore*

Next-generation sequencing is widely used as a tool to address a gamut of questions. This tutorial will discuss the basics of Next-Generation Sequencing, describing the various steps of processing and manipulations that take place during the processes of sample to sequence.

An understanding of these processes is important in the context of analysis and interpretation of NGS data. Target audience: end-users of NGS as well as bioinformaticians who analyze NGS data.

Short Course 4: (May 30 17:30-19:30)
**An Introduction to ENCODE: Guiding Principles, Technologies and Data**

*Melissa J. Fullwood, Ph.D, Assistant Professor, Yale-NUS; Special Fellow, Cancer Science Institute, Singapore*

This course is aimed towards biologists who have had little experience with ENCODE. This course will introduce the ideas behind ENCODE and the rationale for ENCODE, the various technologies used to produce data for the ENCODE project with a focus on the strengths and limitations of the technologies, and also provide hands-on data exercises using ENCODE data via the UCSC Genome Browser portal. While this course will aim to introduce many ENCODE technologies and datasets, in-depth exercises will focus on ChIP-Seq, RNA-Seq and ChIA-PET data. Laptops that have Microsoft Office and a good internet connection will be needed for the participants. The course will not be going into very much detail about the bioinformatics analysis, although there will be some discussion about this, at a level appropriate for wet-lab biologists who are not very familiar with bioinformatics although they might work with bioinformaticians.

*Separate Registration Required*
Looking for additional ways to drive leads to your sales team throughout the year?

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CHI offers comprehensive sponsorship packages which include presentation opportunities, key exhibit space and branding, as well as the use of the pre and post-show delegate lists. Customizable sponsorship packages allow you to achieve your objectives before, during, and long after the event. Signing on early will allow you to maximize exposure to hard-to-reach decision makers!

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Tim McLucas, 781-972-1342
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Only a very limited number of exhibit spaces are available!

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Exhibit
Exhibitors will enjoy facilitated networking opportunities with qualified decision makers at Bio-IT World Asia, making it the perfect platform to launch a new product, collect feedback, and generate new leads. Only 30 exhibit booths are available and space is selling out quickly. Reserve yours today!

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Agenda Presentations
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- Live Webinars
- Market Surveys
- White Papers
- Podcasts and much more!
**TUESDAY, MAY 28**

7:30 Conference Registration and Morning Coffee

8:30 Welcome Remarks

8:45 Chairperson’s Remarks
Chris Dagdigian, Founding Partner and Director, Technology, BioTeam, Inc.

**PLENARY KEYNOTE SESSION:**

9:00 New Cancer Drugs that Target Protein-Protein Interactions
Sir David Lane, Ph.D., Professor & Chief Scientist, A*STAR; Director, p53 Laboratory

9:45 Genetic Study of Newborn Diseases with Evolving Technologies
Professor Paul Tam, Ph.D., Pro-Vice Chancellor and Vice President, The University of Hong Kong

10:30 Coffee Break

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**IT Infrastructure and the Cloud**

**BIO-IT ESSENTIALS**

11:20 Chairperson’s Remarks
Chris Dagdigian, Founding Partner and Director, Technology, BioTeam, Inc.

11:30 Life Science Informatics & The Cloud: Best Practices and Lessons Learned
Chris Dagdigian, Founding Partner and Director, Technology, BioTeam, Inc.

11:50 Enabling Secure Collaboration within a Bio-IT Information Architecture
Chip Morgan, Managing Partner, Information Services Bureau

12:10 Sponsored Presentation
Sponsored by aspera

12:40 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

**IT INFRASTRUCTURE FOR GENOMIC RESEARCH**

14:00 Chairperson’s Remarks
Clive Higgins, Vice President, Marketing, Informatics, PerkinElmer

14:10 The Australian Genomics Virtual Laboratory
Andrew Lonie, Ph.D., Associate Professor & Head, Life Sciences Computation Center, Victorian Life Sciences Computation Initiative

14:30 Building Bridges: Evolving High Performance Computing in the Life Sciences
Carlos F. Sosa, Ph.D., Manager, Chemistry & Life Sciences Segment, Cray, Inc.; Biomedical Informatics & Computational Biology, University of Minnesota Rochester

14:45 Sponsored Presentation (Opportunity Available)

15:00 Refreshment Break

15:30 Translational Research Infrastructure for Genome Medicine in the NGS Era
Adam Yao, Ph.D., Research Scientist, Director, BioIT Group, National Center for Genome Medicine (NCGM), Institute of Biomedical Sciences (IBMS), Academia Sinica

15:50 A Genomics Virtual Lab for Cancer Research
Dominique Gorse, Ph.D., MBA, MACS CT, General Manager, OFAB Bioinformatics, Australia

16:10 Sponsored Presentation (Opportunity Available)

16:30 Next-Generation Sequencing – From Data Generation to Data Archival
Lavanya Veeravalli, Bioinformatics Specialist, Genome Institute of Singapore

16:50 Implementing Hadoop NGS Mapping Framework SEAL in GIS
Seow Eng Lee, Senior Application Engineer, Genome Institute of Singapore (A*STAR)

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**Antibody Engineering Asia**

**ANTIBODY ENGINEERING RISING IN THE EAST**

11:20 Chairperson’s Remarks
Arvind Rajpal, Ph.D., Vice President, Protein Engineering, Rinat-Pfizer, Inc.

11:30 Antibodies to c-Met for Imaging and Therapy
Sir David Lane, Ph.D., Professor & Chief Scientist, A*STAR; Director, p53 Laboratory

11:50 Antibody Drug Discovery Process in CPR based on Recycling & Sweeping Antibody Technology
Junichi Nezu, Ph.D., Research Head, Chugai Pharmabody Research Pte. Ltd. Singapore

12:10 sponsored Presentation
Sponsored by

12:40 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

14:00 Chairperson’s Remarks
Stephen Mahler, Ph.D., Professor & Head, Chemical and Biological Engineering, Australian Institute for Bioengineering and Nanotechnology

14:10 Engineered Antibody Constant domains (nanoantibodies): implications for development of novel Candidate therapeutics
Rui Gong, Ph.D., Professor & Head, Antibody Engineering Group, Wuhan Institute of Virology, Chinese Academy of Sciences, China

14:30 Antibody Engineering to Address novel biological Questions
Arvind Rajpal, Ph.D., Vice President, Protein Engineering, Rinat-Pfizer, Inc.

14:50 Q&A

15:00 refreshment break

15:30 Antibody therapeutics developments and Market opportunities in Japan
Satoshi Banba, Executive Director, Medical & BioTechnology Department, Seed Planning, Inc.

15:50 Using StaRs to Generate Therapeutic Antibodies to GPCR Targets
Catherine Hutchings, Ph.D., Principal Scientist, Antibody Discovery & Strategy Partnering, Heptares Therapeutics Ltd.

16:10 Sponsored Presentation (Opportunity Available)

16:30 Engineered Antibody Domains and Multispecific Fusion Proteins as Candidate Therapeutics against Cancer and HIV-1
Dimiter Dimitrov, Ph.D., Senior Investigator, Center for Cancer Research, National Cancer Institute, NIH

16:50 Therapeutic Mirror Proteins for Eye and Lung Diseases
Dana Ault-Riche, Ph.D., CEO, Pharmaceuticals, Reflexion Pharmaceuticals
Antibody Engineering Asia

17:10 Empowered Antibody-Fusion Proteins to Effectively Treat Cancer
Sanjay Khare, Ph.D., CEO and President, ImmunGene, Inc.

17:30 Welcome Reception in the Exhibit Hall with Poster Viewing

18:30 Close of Day

Wednesday, May 29

8:00 Morning Coffee

Engineering for Therapeutic Targets Continued

8:30 Chairperson’s Remarks
Catherine Hutchings, Ph.D., Principal Scientist, Antibody Discovery & Strategy Partnering, Heptares Therapeutics Ltd.

8:40 Targeting Intracellular Oncoproteins with Antibody Therapy or Vaccination
Qi Zeng, Ph.D., Principal Investigator, Institute of Molecular and Cellular Biology, A*STAR

9:00 Bispecific Antibodies: Creating New Therapeutic Modalities
Stephen Mahler, Ph.D., Professor & Head, Chemical and Biological Engineering, Australian Institute for Bioengineering and Nanotechnology

9:50 Coffee Break in the Exhibit Hall with Poster Viewing

9:40 The Development of Fully Human Antibody Therapeutic Candidates
Paul A. Macary, Ph.D., Assistant Professor, Department of Microbiology, National University of Singapore

10:40 The Collaboration Imperative in Clinical Research
Gerard Wong, MBBS, MBA, Deputy Director, Investigational Medicine Unit (IMU), National University Health System, Singapore

11:00 The Collaboration Imperative in Clinical Research
Gerard Wong, MBBS, MBA, Deputy Director, Investigational Medicine Unit (IMU), National University Health System, Singapore

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Gerard Wong, MBBS, MBA, Deputy Director, Investigational Medicine Unit (IMU), National University Health System, Singapore

11:20 Sponsored Presentation (Opportunity Available)

11:40 Preclinical Characterization of ARGX-110 Targeting CD70 as an Immune Checkpoint Inhibitor and Proliferation Blocker
Karen Silence, Ph.D., Research Fellow & Project Manager, ARGX-110, arGEN-X

12:00 Q&A

12:10 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

12:40 End of Antibody Engineering Asia

BiDA, BIG MEDICINE

8:30 Chairperson’s Remarks
Narendra K. Saini, CEO, Sukrut Systems

8:40 Doctors- Patients, the Highway Communication
Jayadeep Reddy, Founder and C.E.O, e Health Access Pvt Ltd

9:00 Mobile and Cloud - Rethinking Diagnostics
Sailesh Chutani, Ph.D., President and CEO, Mobisante, Inc.

9:20 Sponsored Presentation

9:35 Sponsored Presentation (Opportunity Available)

9:50 Coffee Break in the Exhibit Hall with Poster Viewing

10:40 M2M Perspective of the New World health Paradigm
Narendra K. Saini, CEO, Sukrut Systems

11:00 Systems Immunology Approaches for Monoclonal Antibody Discovery and Engineering
Sai Reddy, Ph.D., Assistant Professor, Biosystems Science & Engineering, ETH Zurich

11:20 Sponsored Presentation (Opportunity Available)

11:50 Panel Discussion: Healthcare Ecosystem Going through a Paradigm Shift
Moderator:
Stanley Y. Shaw, M.D., Ph.D., Co-Director, Center for Assessment Technology and Continuous Health (CATCH), Massachusetts General Hospital (MGH); Co-Director of Chemical Biology, MGH Center for Systems Biology; Assistant Professor, Harvard Medical School

Panelists:
Jayadeep Reddy, Co-Founder and CEO, e Health Access Pvt Ltd
Narendra Saini, CEO, Sukrut Systems
Samik Ghosh, Ph.D., Senior Research Scientist, Systems Biology Institute

12:10 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

12:40 End of IT Infrastructure and the Cloud

Bio-ITWorldAsia.com & TriConferenceAsia.com
**WEDNESDAY, MAY 29**

**13:00 Registration**

**Clinical Genomics**

13:40 Chairperson’s Remarks
Marcel Dinger, Ph.D., Associate Professor, Head of Genome Informatics, Garvan Institute for Medical Research, The Kinghorn Cancer Center

13:50 Genomic Profiles of Asian Cancer Phenotypes
Patrick Boon Ooi TAN, M.D., Ph.D., Associate Research Professor, Institute for Genome Sciences & Policy

14:10 Complexity of Mammalian Transcription Regulation as Analyzed in the ENCODE and FANTOM Projects
Piero Carninci, Ph.D., Team Leader, Functional Genomics Technology Team, Omics Resource Development Unit; Deputy Project Director, LSA Technology Development Group, RIKEN Yokohama Institute

14:30 Whole Genome and Exome Sequencing in the Clinic: Lessons Learned
Marcel Dinger, PhD, Associate Professor, Head of Genome Informatics, Garvan Institute for Medical Research, The Kinghorn Cancer Center

15:00 Refreshment Break in the Exhibit Hall with Poster Viewing

**Keynote Session**

16:00 Chairperson’s Remarks

16:10 Sequecing the Faroe Islands – From Sequencing to Societal Implementation and Personalized Health
Bogi Eliasen, Program Director, FarGen, Ministry of Health, Faroe Islands

16:40 Implementing Clinical and Research Trio Whole Genome and Exome Sequencing for Diagnosis of Rare Diseases
Jimmy Lin, M.D., Ph.D., MHS, Founder and President, Rare Genomics Institute; Research Instructor, Washington University St. Louis

17:10 Panel Discussion: Genomics-Driven Precision Medicine

Panelists:
Bogi Eliasen, Program Director, FarGen, Ministry of Health, Faroe Islands
Jimmy Lin, M.D., Ph.D., MHS, Founder and President, Rare Genomics Institute; Research Instructor, Washington University St. Louis
Piero Carninci, Ph.D., Team Leader, Functional Genomics Technology Team, Omics Resource Development Unit; Deputy Project Director, LSA Technology Development Group, RIKEN Yokohama Institute
Marcel Dinger, Ph.D., Associate Professor, Head of Genome Informatics, Garvan Institute for Medical Research, The Kinghorn Cancer Center

17:30 Dinner Short Course Registration

18:00 – 20:00 Dinner Short Courses (Separate Registration Required) See page 2 for details.

**THURSDAY, MAY 30**

**8:00 Morning Coffee**

**NGS Data Analysis**

8:30 Chairperson’s Remarks
Bogi Eliasen, Program Director, FarGen, Ministry of Health, Faroe Islands

8:40 Next-Gen Sequencing Analysis Using GigaGalaxy
Tin-Lap Lee, Ph.D., Associate Professor, Program in Reproduction, Development and Endocrinology, School of Biomedical Sciences, The Chinese University of Hong Kong

9:00 Predicting TF-DNA Binding in vivo: NGS Data Brings Us a Few Steps Closer
Shyam Prabhakar, Ph.D., Associate Director, Genome Analytics; Group Leader, Computational and Systems Biology, Genome Institute of Singapore

8:00 Registration & Morning Coffee

**Clinical Data Management and eClinical Trials**

**WEDNESDAY, MAY 29**

8:30 Chairperson’s Remarks
Narendra K. Saini, CEO, Sukrut Systems

8:40 Doctors- Patients, the Highway Communication
Jayadeep Reddy, Founder and C.E.O, e Health Access Pvt Ltd

9:00 Mobile and Cloud - Rethinking Diagnostics
Sailesh Chutani, Ph.D., President and CEO, Mobisante, Inc.

9:20 Sponsored Presentation (Opportunity Available)

9:50 Coffee Break in the Exhibit Hall with Poster Viewing

10:40 M2M Perspective of the New World Health Paradigm
Narendra Saini, CEO, Sukrut Systems

11:00 The Collaboration Imperative in Clinical Research
Gerard Wong, Ph.D., Deputy Director, Investigational Medicine Unit (IMU), National University Health System, Singapore

11:20 Sponsored Presentation (Opportunity Available)

11:50 Panel Discussion: Healthcare Ecosystem Going through a Paradigm Shift

Moderator:
Stanley Y. Shaw, M.D., Ph.D., Co-Director, Center for Assessment Technology and Continuous Health (CATCH), Massachusetts General Hospital (MGH); Co-Director of Chemical Biology, MGH Center for Systems Biology; Assistant Professor, Harvard Medical School

Panelists:
Jayadeep Reddy, Co-Founder and CEO, e Health Access Pvt Ltd
Narendra Saini, Sukrut Systems
Samik Ghosh, Ph.D., Senior Research Scientist, Systems Biology Institute

12:10 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

**Keynote Session**

16:00 Chairperson’s Remarks

16:10 Sequencing the Faroe Islands – From Sequencing to Societal Implementation and Personalized Health
Bogi Eliasen, Program Director, FarGen, Ministry of Health, Faroe Islands

13:40 Chairperson’s Remarks

13:50 Systems Biology Approaches for Targeted and Combination Therapeutics
Samik Ghosh, Senior Research Scientist, Systems Biology Institute

14:10 Ultrasensitive RNA In Situ Hybridization for Tissue Diagnostics
Yuling Luo, Ph.D., Founder, President & CEO, Advanced Cell Diagnostics, Inc.

14:30 Sponsored Presentation (Opportunity Available)

5:00 Refreshment Break in the Exhibit Hall with Poster Viewing
14:10 sponsored Presentation
Melissa J. Fullwood, Ph.D., Assistant Professor, Yale-NUS; Special Fellow, Cancer Science Institute, Singapore

11:00 Open Source and Web-Based Analysis of NGS Data Using Galaxy at the Center for Research Informatics University of Chicago
Jorge Andrade, Ph.D., Director, Bioinformatics, Center for Research Informatics, Biological Sciences Division, University of Chicago

12:20 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

CANCER GENOMICS

13:40 Chairperson’s Remarks
Melissa J. Fullwood, Ph.D., Assistant Professor, Yale-NUS; Special Fellow, Cancer Science Institute, Singapore

13:50 ultra-fast Alignment and Variation Detection Software for Cancer Genome Analysis
Ruiqiang Li, Ph.D., Founder, Novogene Co. Ltd.

14:10 sponsored Presentation (Opportunity Available)

14:40 Investigating Tumor Heterogeneity Using Next-Gen Tools
Niranjan Nagarajan, Ph.D., Assistant Director and Senior Research Scientist, Computational and Systems Biology, Genome Institute of Singapore

15:00 Refreshment Break in the Exhibit Hall with Poster Viewing

15:20 Cancer from Every Angle: Data Integration of High-Throughput Capture Technologies
Denis C. Bauer, Ph.D., Research Scientist, CSIRO Mathematics, Informatics and Statistics (CMIS), Commonwealth Scientific and Industrial Research Organization, Australia

15:40 sponsored Presentation (Opportunity Available)

16:10 3-D Insights into Chromatin and Transcription in Human Cancer Cells
Melissa J. Fullwood, Ph.D., Assistant Professor, Yale-NUS; Special Fellow, Cancer Science Institute, Singapore

16:30 Understanding of Genomic Variations in Cancer – Germline Variants versus Somatic Mutations
Axel Hillmer, Ph.D., Senior Research Scientist, Cancer Therapeutics & Stratified Oncology, Genome Institute of Singapore

16:50 The Next Generation Proteomics – Advances, Applications and Challenge
Chanchal Kumar, Ph.D., Associate Principal Scientist, MSD Translational Medicine Research Centre Singapore

17:10 End of NGS Applications

THURSDAY, MAY 30

8:00 Morning Coffee

CLINICAL TRIALS MANAGEMENT

8:30 Chairperson’s Remarks

8:40 foundations for a Collaborative Clinical Trial Network in Australia
Stewart Hay, Ph.D., Chief Executive Officer, Therapeutic Innovation Australia

9:00 Evolving Clinical Trial Scenario in India: Regulatory, Ethical and Social Issues
Professor Y.K. Gupta, M.D., FAMS, FNASc, FIPS, FIAN, FST, FIACS, Chairman, Department of Pharmacology, National Scientific Coordinator, Pharmacovigilance Program of India; President, Society of Toxicology, India

9:20 sponsored Presentation (Opportunity Available)

10:40 Managing an orphan Drug Clinical Trial in China
Ying Luo, Ph.D., Chairman, President and CEO, Shanghai Genomics, Inc.; Chairman, Beijing Continent Pharmaceuticals, Inc.

11:00 Managing Clinical Trials in Asia: A CRO Perspective
Dan Zhang, M.D., MPH, Chairman and CEO, Fountain Medical Development Ltd.

11:20 sponsored Presentation (Opportunity Available)

12:20 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

12:40 End of Clinical Data Management and eClinical Trials
THURSDAY, MAY 30

13:00 Registration

CANCER BIOINFORMATICS

13:40 Chairperson’s Remarks

13:50 Ultra-Fast Alignment and Variation Detection Software for Cancer Genome Analysis
  Ruiqiang Li, Ph.D., Founder, Novogene Co. Ltd.

14:10 Sponsored Presentation (Opportunity Available)

14:40 Investigating Tumor Heterogeneity Using Next-Gen Tools
  Niranjan Nagarajan, Ph.D., Assistant Director and Senior Research Scientist, Computational and Systems Biology, Genome Institute of Singapore

15:00 Refreshment Break in the Exhibit Hall with Poster Viewing

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  Melissa J. Fullwood, Ph.D., Assistant Professor, Yale-NUS; Special Fellow, Cancer Science Institute, Singapore

16:30 Understanding of Genomic Variations in Cancer – Germline Variants versus Somatic Mutations
  Axel Hillmer, Ph.D., Senior Research Scientist, Cancer Therapeutics & Stratified Oncology, Genome Institute of Singapore

16:50 The Next-Generation Proteomics – Advances, Applications and Challenge
  Chanchal Kumar, Ph.D., Associate Principal Scientist, MSD Translational Medicine Research Centre Singapore

17:10 Dinner Short Course Registration

17:30 – 19:30 Dinner Short Course (Separate Registration Required)
See Page 2 for details.

PRENATAL MOLECULAR DIAGNOSTICS

13:40 Chairperson’s Remarks

13:50 The Trend of Non-Invasive Prenatal Tests (NIPT)
  Daixing Zhou, Ph.D., CEO, Berry Genomics Co., Ltd.

14:10 Sponsored Presentation (Opportunity Available)

14:40 FetalQuant: Deducing Fractional Fetal DNA Concentration from Massively Parallel Sequencing of DNA in Maternal Plasma
  Hao Sun, Ph.D., Assistant Professor, Department of Chemical Pathology; Director, Biomedical Computing Centre, Li Ka Shing Institute of Health Sciences, The Chinese University of Hong Kong

15:00 Refreshment Break in the Exhibit Hall with Poster Viewing

INFECTIONOUS DISEASE DIAGNOSTICS

15:20 Development of Novel Serological Tests for Biosafety Level 4 (BSL4) Agents
  Linfa Wang, Ph.D., FTSE, Professor & Director, Program in Emerging Infectious Disease, Duke-NUS Graduate Medical School

16:00 Panel Discussion: Controversy Surrounding Research on Infectious Diseases: Biosafety vs. Biosecurity
  Panelists:
  Toshihisa Ishikawa, Ph.D., Professor of Biochemistry, Molecular Biology and Pharmacogenomics, Omics Science Center, RIKEN Yokohama Institute
  Ryo Hamada, Ph.D., Panasonic Healthcare Co., Ltd.

17:10 Dinner Short Course Registration

17:30 – 19:30 Dinner Short Course (Separate Registration Required)
See Page 2 for details.

FRIDAY, MAY 31

8:30 Morning Coffee

KEYNOTE SESSION

8:50 Chairperson’s Remarks

Stanley Y. Shaw, M.D., Ph.D., Co-Director, Center for Assessment Technology and Continuous Health (CATCH), Massachusetts General Hospital (MGH); Co-Director of Chemical Biology, MGH Center for Systems Biology; Assistant Professor, Harvard Medical School

9:00 Genome 10K: A Genomic Zoo of 10,000 Vertebrates
  Prof. B. Venkatesh, Ph.D., Research Director, Institute of Molecular and Cell Biology (IMCB), A*STAR

9:30 The Human Protein Atlas - An Update with Emphasis on the Contribution of Indian Surgical Pathology
  Sanjay Navani, M.D., Surgical Pathologist and Immunohistochemist, LAB SURGPATH; Site Director, The Human Protein Atlas (HPA) Project
### Molecular Diagnostics

**11:20 Chairperson’s Remarks**
Sanjay K. Kakkar, MBBS, MSc, M.P.H., Chairman and Founder, Jai Medica Pvt. Ltd. (Jai Health)

**NGS FOR DIAGNOSTICS**

**11:30 Introducing Deep Sequencing into Clinical Workflows**
Richie Soong, Ph.D., Research Associate Professor and Senior Principal Investigator, Center for Translational Medicine, National University of Singapore

**11:50 From Sanger to NGS: Making the Transition in the Clinical Laboratory**
Andrew Fellowes, Ph.D., FHGSA, FFSocr(FCP), Scientist in Charge, Molecular Pathology Diagnostic Development, Peter MacCallum Cancer Centre

**12:10 Sponsored Presentation (Opportunity Available)**

**12:40 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own**

**PERSONALIZED DIAGNOSTICS**

**13:45 Chairperson’s Remarks**
Peter Pack, Consultant, Science2Biz

**13:50 Caveats of Personalized Medicine**
Pauline Ng, Ph.D., Group Leader, Computational & Mathematical Biology, Genome Institute of Singapore

**14:10 Sponsored Presentation (Opportunity Available)**

**14:40 Refreshment Break in the Exhibit Hall with Poster Viewing**

**15:10 India’s Cardiovascular Epidemic – Prevention through Innovation**
Sanjay K. Kakkar, MBBS, MSc, M.P.H., Chairman and Founder, Jai Medica Pvt. Ltd. (Jai Health)

**15:30 Molecular Painting: Broad-Ranging Applications Including Diagnostics**
John Dangerfield, Ph.D., Managing Director, Anovasia Pte Ltd

**15:50 Challenges and Opportunities of Starting Molecular Diagnostic Business in Asia**
Alex Thian, CEO, AIT Biotech

**16:10 How Clinical Diagnostics are Affecting Clinical Practice**
Moderator: Peter Pack, Consultant, Science2Biz
Panelist: Sanjay K. Kakkar, MBBS, MSc, M.P.H., Chairman and Founder, Jai Medica Pvt. Ltd. (Jai Health)

**16:30 Q&A with Session Speakers**

### Bioinformatics and Cancer Genomics

#### INTEGRATING GENOMICS AND CLINICAL INFORMATICS

**11:30 Data Mining of Electronic Medical Records (EMR) and Other Novel Phenotypes for Biomedical Discovery**
Stanley Y. Shaw, M.D., Ph.D., Co-Director, Center for Assessment Technology and Continuous Health (CATCH), Massachusetts General Hospital (MGH); Co-Director of Chemical Biology, MGH Center for Systems Biology; Assistant Professor, Harvard Medical School

**11:50 Novel Cancer Bioinformatics and Data Analysis Strategies for Identification of Clinically Related Biomarkers**
Vladimir A. Kuznetsov, Ph.D., Sci.D., Deputy Director, Graduate Affairs; Senior Principal Investigator & Head, Division of Genome and Gene Expression Data Analysis, Bioinformatics Institute

**12:10 Sponsored Presentation (Opportunity Available)**

**12:40 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own**

#### CANCER BIOLOGY AND THERAPEUTICS

**13:45 Chairperson’s Remarks**
Stanley Y. Shaw, M.D., Ph.D., Co-Director, Center for Assessment Technology and Continuous Health (CATCH), Massachusetts General Hospital (MGH); Co-Director of Chemical Biology, MGH Center for Systems Biology; Assistant Professor, Harvard Medical School

**13:50 Cancer Metabolism Revisited**
Kishore Bhakoo, Ph.D., Director, Translational Imaging Industrial Laboratory (TIIL); Head, Translational Molecular Imaging Group (TMIG), Singapore Bioimaging Consortium, Agency for Science, Technology and Research (A*STAR)

**14:10 Sponsored Presentation (Opportunity Available)**

**14:40 Refreshment Break in the Exhibit Hall with Poster Viewing**

**15:10 India’s Cardiovascular Epidemic – Prevention through Innovation**
Sanjay K. Kakkar, MBBS, MSc, M.P.H., Chairman and Founder, Jai Medica Pvt. Ltd. (Jai Health)

**15:30 Molecular Painting: Broad-Ranging Applications Including Diagnostics**
John Dangerfield, Ph.D., Managing Director, Anovasia Pte Ltd

**15:50 Challenges and Opportunities of Starting Molecular Diagnostic Business in Asia**
Alex Thian, CEO, AIT Biotech

**16:10 How Clinical Diagnostics are Affecting Clinical Practice**
Moderator: Peter Pack, Consultant, Science2Biz
Panelist: Sanjay K. Kakkar, MBBS, MSc, M.P.H., Chairman and Founder, Jai Medica Pvt. Ltd. (Jai Health)

**16:30 Q&A with Session Speakers**

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Marina Bay Sands Resort  
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**Discounted Room Rate (SGD):** S$380 single, S$410 double (Rate includes breakfast)  
**Discounted Room Rate Cut-Off:** April 25, 2013

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**Travel Information**

**Flights:**
Please contact our designated Travel Agent Rona Meizler at rona.meizler@protravelinc.com or at 1-617-559-3735 if you need assistance with booking airfare.

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- Go to www.hertz.com use our Hertz Convention Number (CV): 04KL0004
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**Visa:**
International delegates can check the Immigration and Checkpoint Authorities (ICA) website for visa information and applications: [http://www.ica.gov.sg/](http://www.ica.gov.sg/)

**Currency:**
The currency used in Singapore is the Singapore dollar (S$). Money changing services can be found not only at the Singapore Changi Airport but also at most shopping centers and hotels around the island. You can also access ATMs located at many locations around Singapore that accept credit cards such as Visa, MasterCard and American Express

**Language:**
The four official languages of Singapore are English, Mandarin, Malay and Tamil. English is the most common language used.

**Smoking Policy:**
Smoking is prohibited in public spaces including air-conditioned areas such as shopping centers, restaurants, hotels, entertainment outlets and cinemas. Smoking is not allowed on the SMRT (Singapore Mass Rapid Transit system), public buses, taxis and in elevators. The smoking ban has also been imposed at public eateries and within a five-meter radius from most building entrances, except for allocated smoking areas that are clearly marked with bright yellow paint.

**Local Transportation:**
All Singapore taxis are fitted with electronic meters; all are air conditioned; all are 5-seaters (including the driver) unless otherwise stated; and call booking is done via GPS or digital voice dispatch. Getting around Singapore is a breeze with the MRT, the subway and train system. MRT signs are displayed along main roads and outside stations.

**Weather:**
Singapore is known for its hot and humid weather, with little variation throughout the year. The average daytime temperature is 31ºC (88ºF), dropping to around 24ºC (75ºF) in the evenings.

**Useful links:**
- [www.yoursingapore.com/content/mice/en.html](http://www.yoursingapore.com/content/mice/en.html) Offers an exciting look at Singapore.
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