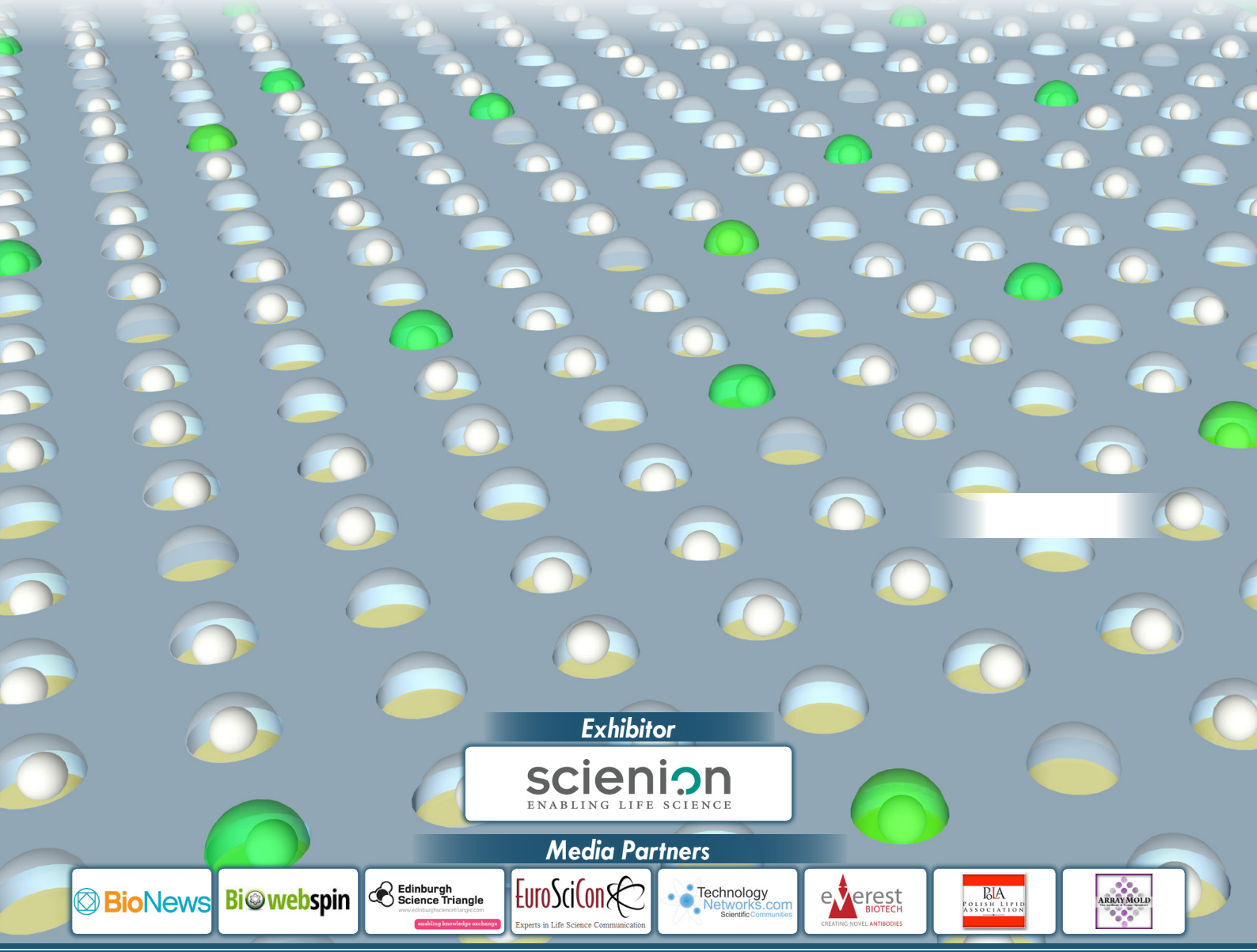
Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

5th International Conference on
Biomarkers & Clinical Research

April 15-17, 2014 St. Hilda's College - University of Oxford, UK



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Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

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Email: *biomarkers2014@omicsonline.net*

Day 1 April 15, 2014

08:00-09:00 Registrations

The Edward Boyle Auditorium

OMICS Group Conferences
Accelerating Scientific Discovery

08:30-09:00 **Opening Ceremony**

Keynote Forum

09:00-09:10 **Introduction**

09:10-09:15 **Opening Message by President, EPMA (Brussels, EU)**

09:15-09:40 **Sergey Suchkov**
I.M.Sechenov First Moscow State Medical University, Russia

09:40-10:05 **Pavel Vodicka**
Institute of Experimental Medicine, Czech Republic

10:05-10:30 **Ondrej Topolcan**
Charles University in Prague, Czech Republic

Coffee Break 10:30-10:50 @ Outside JdP Foyer

Track 1(i): Protein Biomarkers
Track 1(iv): Cancer Biomarkers

Session Chair: Claude Prigent, University of Rennes, France
Session Co-Chair: Wancai Yang, University of Illinois at Chicago, USA

Session Introduction

10:50-11:10 **Aurora- A kinase in cancer: Detection & inhibition**
Claude Prigent, University of Rennes, France

11:10-11:30 **Tiny droplets to detect cancer biomarkers**
Taly Valerie, Centre Universitaire des Saints, France

11:30-11:50 **Identification of blood-based molecular signatures to detect early human hepatocellular carcinoma**
Kam Man Hui, National Cancer Centre Singapore, Singapore

11:50-12:10 **Distinct classes of selenium-containing proteins in carcinogenesis and clinical outcome**
Wancai Yang, University of Illinois at Chicago, USA

12:10-12:30 **Changes of proteins induced by anticoagulants can be more sensitively detected in urine rather than plasma**
Youhe Gao, Chinese Academy of Medical Sciences, China

12:30-12:50 **Serum TRAF-1 as a biomarker for developing clear cell renal cell carcinoma**
Retnagowri Rajandram, University of Malaya, Malaysia

12:50-13:10 **Overlap of proteomics biomarkers between women with pre-eclampsia and PCOS: A systematic review and biomarker database integration**
Gulafshana Hafeez, University of Nottingham, UK

13:10-13:30 **Protective effect of morin on cardiac mitochondrial function during Isoproterenol induced myocardial infarction in male wistar rats**
Govindasamy Chandramohan, King Saud University, Saudi Arabia

Group Photo

Lunch Break 13:30-14:15 @ Outside JdP Foyer

Symposium

14:15-15:00 **Utilisation of protein post-translational modifications as biomarkers of disease**
Wayne Carter, University of Nottingham, UK

Track 2: Functional Genomics and Cytogenetic Biomarkers

Session Chair: Marija Krstic-Demonacos, University of Salford, UK
Session Co-Chair: Carlo Emanuele Neumaier, Universitaria San Martino-IST, Italy

Session Introduction

15:00-15:20 **New approaches to personalised biomarker identification**
Marija Krstic-Demonacos, University of Salford, UK

15:20-15:40 **Emerging role of prostate multiparametric MRI as a imaging-biomarker in cancer**
Carlo Emanuele Neumaier, Universitaria San Martino-IST, Italy

15:40-16:00 **MicroRNA and colorectal cancer: Variations in miRNA binding site, genome-wide miRNA methylation, and the use of miRNAs as cancer biomarkers in different tissues**
Alessio Naccarati, HuGeF - Human Genetics Foundation, Italy

16:00-16:20 **Blood based genomic and proteomic biomarkers for cardiac transplantation: From discovery to clinical implementation**
Robert McMaster, Vancouver Coastal Health Research Institute, Canada

Coffee Break 16:20-16:40 @ Outside JdP Foyer

16:40-17:00 **Epitope profiling the plasma proteome via specific monoclonal antibody libraries results in high accuracy for the detection of lung, breast, colon and protstate cancers**
Laszlo Takacs, Biosystems International Kft, Hungary

17:00-17:20 **Evaluation multiple intracellular phospho-signalling events as biomarker on single cell level using flow cytometry**
Raif Yuecel, University of Aberdeen, UK-Scotland

17:20-17:40 **A new integrative procedure to identify and explore new RNA in myeloid leukemia: From software development to biological markers validation**
Commes Therese, CHRU Hopital Saint Eloi, France

17:40-18:00 **Genetics and fMRI as combined biomarkers of dementia in recently diagnosed Parkinson's disease patients: ICICLE-PD study**
Cristina Nombela Otero, University of Cambridge, UK

18:00-18:20 **Mutations in IDH1 and its prognostic role for patients with glioblastoma**
Jiri Polivka, Charles University in Prague, Czech Republic

Vernon Harcourt Room

Track 5: Biomarkers in Clinical Research and Development
Track 7: Biomarkers of Exposure Response and Susceptibility

Session Chair: Sergey Suchkov, I.M.Sechenov First Moscow State Medical University, Russia
Session Co-Chair: Pavel Vodicka, Institute of Experimental Medicine, Czech Republic

Session Introduction

15:00-15:20 **Antibody-proteases as novel biomarkers and highly informative molecular tools to predict and to prevent demyelination**
Sergey Suchkov, I.M.Sechenov First Moscow State Medical University, Russia

15:20-15:40 **The use of biomarkers to characterize colorectal cancer: From genetic make-up to complex phenotypic measurement**
Pavel Vodicka, Institute of Experimental Medicine, Czech Republic

15:40-16:00 **Clinical usefulness of HE4 in endometrial cancer diagnostics - A pilot study**
Ondrej Topolcan, Charles University in Prague, Czech Republic

16:00-16:20 **Detection and identification of novel biomarkers of exposure to pesticides**
Wayne Carter, University of Nottingham, UK

Coffee Break 16:20-16:40 @ Outside JdP Foyer

16:40-17:00 **Tumor cells forming vasculogenic mimicry patterns in three-dimensional melanoma cultures have increased resistance against cytotoxic agents and express stem cell marker CD271**
Klara Valyi-Nagy, University of Illinois at Chicago, USA

17:00-17:20 **A new serum biomarker IPO-38 correlated with diagnosis and predicting prognosis in gastric cancer**
Yingyan Yu, Shanghai Jiao Tong University, China

17:20-17:40 **Circulating tumor cells as a real time liquid biopsy: Isolation and detection systems, molecular characterization and clinical applications**
Evi S. Lianidou, University of Athens, Greece

17:40-18:00 **Comet assay for testing the neurotoxic effect of orally administered propionic acid and induced gut bacterial imbalance: Protective potency of carnosine and carnitine**
Amina Elgezeerya, King Saud University, Saudi Arabia

18:00-18:20 **Pretreatment with morin, a flavonoid, ameliorates adenosine triphosphatases and glycoproteins in isoproterenol-induced myocardial infarction in rats**
Khalid Al-Numair, King Saud University, Saudi Arabia

18:20-18:40 **Morin, a flavonoid, prevents lysosomal damage in experimental myocardial ischemic rats**
Mohammed Alsaif, King Saud University, Saudi Arabia

18:40-19:00 **Carvacrol ameliorates the PPAR-α and cytochrome P450 expression on D-galactosamine induced hepatotoxicity rats**
Aristatile Balakrishnan, King Saud University, Saudi Arabia

19:00-19:20 **The role of some natural antioxidants in ameliorating the toxic effects of nano titanium dioxide on bone complications in rats**
Hala Abdelkarem, King Saud University, Saudi Arabia

Day 2 April 16, 2014

The Edward Boyle Auditorium

Keynote

09:00-09:25 **Claudio Nicolini**
University of Genova, Italy

09:25-09:50 **Maciej Banach**
Medical University of Lodz (MUL), Poland

09:50-10:15 **Claude Prigent**
University of Rennes, France

Coffee Break 10:15-10:35 @ Outside JdP Foyer

Workshop on "*Chronic diseases of post-infectious autoimmune origin as applicable to PPPM-based management*"

Session Chair: Sergey Suchkov, I.M.Sechenov First Moscow State Medical University, Russia

Session Introduction

10:35-12:40
Microbiome-induced proteome dysbiosis in autoimmune disease
Trevor Marshall, Autoimmunity Research Foundation, USA
Autoimmune inflammation and the human microbiome
Trevor Marshall, Autoimmunity Research Foundation, USA
Postinfectious Autoimmune Syndrome (PIFAS) as a pathogenic and predictive factor to trigger chronic diseases of infectious origin (CDIO)
Sergey Suchkov, I.M.Sechenov First Moscow State Medical University, Russia
Microbiota and mental health with the emphasize of the role of autoantibodies
Afaf El-Ansary, King Saud University, Saudi Arabia
Fibromyalgia and chronic fatigue syndrome (CFS): Biomarkers as applicable to clinical manifestations
Kirill Shlyapnikov, Echinacea Clinic, Russia
Obesity and metabolic syndrome related biomarkers as predictors of development and pro-gression of type 2 diabetes
Konstantin Ovsyannikov, A.I. Evdokimov Moscow State Medical & Dental University, Russia

Lunch Break 12:40-13:30 @ Outside JdP Foyer

Track 6: Omics Technologies in Biomarkers Discovery and Validation

Session Chair: Claudio Nicolini, University of Genova, Italy
Session Co-Chair: Om Parkash, National JALMA Institute for Leprosy and Other Mycobacterial Diseases, India

Session Introduction

13:30-13:50 **Drug-protein and drug-gene interactions for clinical research by NAPPA QCM_D conductimetry**
Claudio Nicolini, University of Genova, Italy

13:50-14:10 **Mass spectrometry, SPADs and SNAP-NAPPA micron arrays for biomarkers identification in humans**
Eugenia Pechkova, University of Genova, Italy

14:10-14:30 **Applications of flow cytometry towards clinical biomarkers**
Om Parkash, National JALMA Institute for Leprosy and Other Mycobacterial Diseases, India

14:30-14:50 **New proteomic approaches for biomarker discovery: The search for novel liver fibrosis markers in hepatitis C patients**
Bevin Gangadharan, Oxford Glycobiology Institute, UK

14:50-15:10 **LC-MS based discovery of novel protein biomarkers and their quantitation in HCV fibrosis and NASH diseased human serum**
Abhinav Kumar, Oxford Glycobiology Institute, UK

15:10-15:30 **Diagnosing impaired glucose tolerance using direct mass spectrometry of blood plasma metabolites**
Petr G. Lokhov, Institute of Biomedical Chemistry RAMS, Russia

Coffee Break 15:30-15:50 @ Outside JdP Foyer

15:50-16:10 **Proteomics for cancer biomarkers: From MALDI-TOF profiling to targeted proteogenomics**
Sergei Moshkovskii, Orekhovich Institute of Biomedical Chemistry, Russia

16:10-16:30 **A next generation sequencing approach for plasma microRNA profiling in bladder cancer**
Barbara Pardini, HuGeF - Human Genetics Foundation, Italy

Vernon Harcourt Room

Track 9: Techniques to Maximize Biomarker Identification
Track 10: Biomarkers & Nanoparticles

Session Chair: Leticia Cano, Biomarkers Profile Corporation, USA
Session Co-Chair: Gabriella Baio, IST-National Cancer Institute, Italy

Session Introduction

13:30-13:50 **Identification of pain biomarkers using mass spectrometry**
Leticia Cano, Biomarkers Profile Corporation, USA

13:50-14:10 **Molecular Imaging as biomarker of tumor heterogeneity**
Gabriella Baio, IST-National Cancer Institute, Italy

14:10-14:30 **Nanoscale spotting: Ultra-low volume dispensing to enable high-throughput experimentation**
Leonie Hilliard, SCIENION AG, Germany

14:30-14:50 **How to minimize budgets on commercial antibodies?**
Jan Voskuil, Everest Biotech Ltd., UK

14:50-15:10 **SAP-profiling in biomarker research**
Andrey Lisitsa, Orekhovich Institute of Biomedical Chemistry, Russia

15:10-15:30 **Beneficial effects of myeloid-cell-expressed S100A9 in kidney transplantation**
Michael Eikmans, Leiden University Medical Center, The Netherlands

Coffee Break 15:30-15:50 @ Outside JdP Foyer

15:50-16:10 **Dielectrophoretic collection of λ-DNA using quadruple electrodes**
Ahmad Sabry Mohamad, University of Kuala Lumpur, Malaysia

16:10-16:30 **Oligonucleotide-templated reactions: A Nature-inspired process for sensing nucleic acid biomarkers. Towards high-throughput screening of circulating microRNAs**
Sylvain Ladame, Imperial College London, UK

16:30-16:50 **Breath test for distinguishing gastric cancer from healthy and non-malignant gastric conditions**
Haitham Amal, Israel Institute of Technology, Israel

16:50-17:10 **Plant peptide lectin-coated gold nanoparticles cytotoxicity against targeted tumor associated carbohydrate antigen expressed in cancer cell lines: A potential application in drug delivery**
Rebecca Thombre, Modern College, India

16:50-17:50 Posters @ Outside JdP Foyer

Day 3 April 17, 2014

The Edward Boyle Auditorium

Track 8: Biomarkers for Disorders

Session Chair: Maciej Banach, Medical University of Lodz (MUL), Poland
Session Co-Chair: Magdy El-Salhy, Helse-Fonna, Norway

Session Introduction

09:00-09:20 **Subfractions/subpopulations of HDL cholesterol and dysfunctional HDL - A time for new biomarkers in lipid disorders patients?**
Maciej Banach, Medical University of Lodz (MUL), Poland

09:20-09:40 **Selected biochemical parameters related to detoxification mechanism as correlates to social responsiveness and severity of autism**
Afaf El-Ansary, King Saud University, Saudi Arabia

09:40-10:00 **Detection of novel biomarkers in the cerebrospinal fluid of multiple sclerosis patients**
Wayne Carter, University of Nottingham, UK

Coffee Break 10:00-10:20 @ Outside JdP Foyer

10:20-10:40 **Duodenal chromogranin A cell density as a biomarker for the diagnosis of irritable bowel syndrome**
Magdy El-Salhy, Helse-Fonna, Norway

10:40-11:00 **Cytoplasmic expression of HspB11 correlates with the clinical grade of brain tumors**
Ferenc Gallyas, University of Pecs Medical School, Hungary

11:00-11:20 **The pros and cons of using biomarkers and genetic markers in the study of common multifactorial disorders-a study on Saudi population**
Arjumand Warsy, King Saud University, Saudi Arabia

11:20-11:40 **Alterations in serum levels of TPA and PAI-1 in patients with acute myocardial infarction**
Shafiqul Islam, King Saud University, Saudi Arabia

Bookmark your dates

OMICS Group Conferences
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6th International Conference on
Biomarkers & Clinical Research
August 31-September 02, 2015 Canada

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