

Tentative Program

International Conference on

Biomarker Research in Clinical Medicine

February 19-21, 2018

Venue

Paris Marriott Charles de Gaulle Airport Hotel
5 Allee du Verger, Zone Hoteliere
Roissy en France, 95700 France

Supporters



Organizing Committee



Sergey Suchkov

Sechenov University, National
Research Nuclear University
MEPhI, Russia



Stephen Pennington

University College
Dublin; Atturo
Ireland



Sherry Bradford

AccuTheranostics, Inc
USA



Claude Prigent

CNRS (Centre National
de la Recherche
Scientifique)
France

Keynote Speakers



Harald zur Hausen

Nobel Laureate 2008
German Cancer Research
Center (DKFZ)
Germany



Wassil Nowicky

President of Ukrainian Anti
Cancer Institute
Austria



Sergey Suchkov

Sechenov University &
National Research Nuclear
University MEPhI, Russia



Irina Zavestovskaya

National Research Nuclear
University MEPhI, Russia



Vladimir Lazar

WIN
France



Catherine Larue

IBBL
Luxembourg

Day 1 | February 19, 2018 | Monday

- 08:00-08:10 Registrations
08:10-08:30 Inaugural Ceremony

Keynote Session

- 08:30-09:30 **The Search for Infectious Agents in Human Cancers – Where and Why?**
Harald zur Hausen, German Cancer Research Center (DKFZ), Germany
- 09:30-10:10 **The Proton Preparation NSC-631570 (Ukraine) and its Selective Effect**
Wassil Nowicky, Ukrainian Anti Cancer Institute, Austria
- 10:10-10:30 Coffee Break & Networking**

Symposium (Part - I)

Biomarkers as a New Entity through the View of Personalized and Translational Medicine

- Sechenov University, National Research Nuclear University MEPhI & Alliance on Translational Medicine, Russia
- WIN, Paris, France
- Frankfurt Innovation Center Biotechnology GmbH, Frankfurt am Main, Germany
- Woodland Pharmaceuticals, USA

Chairman: Sergey Suchkov, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia

10:30-10:50 Introduction

Opening: **Sergey Suchkov**, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia
Andrey Svistunov, Sechenov University, Russia
Irina Zavestovskaya, National Research Nuclear University MEPhI, Russia
Vladimir Lazar, WIN, France

Keynote Session

- Co-Chairs:** **Andrey Svistunov**, Sechenov University, Russia
Irina Zavestovskaya, National Research Nuclear University MEPhI, Russia
Vladimir Oleinikov, National Research Nuclear University MEPhI & Institute of Bioorganic Chemistry, RAN, Russia
Vladimir Lazar, WIN, France
- 10:50-11:20 **Personalized & Translational Medicine as a Tandem of The New Philosophy, Updated Mentality and Technological Platforms**
Sergey Suchkov, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia
- 11:20-11:50 **Alliance on Translational Medicine: On the Way to get R&D, Clinical Affairs, Biopharma & Business**
Irina Zavestovskaya, National Research Nuclear University MEPhI, Russia

Note : This program is tentative and subject to change

- 11:50-12:20 **Clinical Trials on the Way to secure the Translational and Clinical Efficacy**
Vladimir Lazar, WIN, France
- 12:20-12:50 **How Biomarker Validation Platforms Can Accelerate “Bench to Bedside” Efficiency**
Catherine Larue, Integrated BioBank of Luxembourg (IBBL), Luxembourg
- 12:50-13:50 **Lunch & Networking**

Introductory

- Co-Chairs:** Vladimir Oleinikov, National Research Nuclear University MEPhI & Institute of Bioorganic Chemistry, RAN, Russia
Michael Briggs, Woodland Pharmaceuticals, USA
Piotr Timashev, Sechenov University, Russia
Vladimir Lazar, WIN, France
- 13:50-14:10 **Biomarkers in Basics, Clinical and Translational Research to Get the Translational Pipeline Succeeded**
Anastasiia Voronkova, Sechenov University, Russia
- 14:10-14:30 **Nanobiotechnologies and Nanobiomicroscopy as a New Research, Clinical and Educational Tool to Biomedicine**
Vladimir Oleinikov, National Research Nuclear University MEPhI, Russia
- 14:30-14:50 **Neurotoxic Peptides and Proteins: Biomarkers for Screening and Identifying Ion Channel Subtypes in Healthy/Diseased Conditions and for Drug Design**
Victor Tsetlin, National Research Nuclear University MEPhI, Russia

Session: Biomarkers in Clinical Practice: Today and Tomorrow

- Co-Chairs:** Peter Timashev, Sechenov University, Russia
Christian Garbe, Frankfurt Innovation Center Biotechnology GmbH, Germany
Marc Hendrikx, University of Hasselt, Belgium
Vladimir Lazar, WIN, France
- 14:50-15:10 **Biomarkers in Tissue Engineering**
Denis Butnaru, Sechenov University, Russia
- 15:10-15:30 ***In vivo* Degradation Kinetics of 3D Scaffolds Traced With a Fluorescence Marker**
Peter Timashev, Sechenov University, Russia
- 15:30-15:50 **Markers of the Cell Differentiation as a Tool to Assess the Feasibility of Implantable Tissue-Engineered Constructs**
Anastasia Shpichka, Institute of Photonic Technologies, National Center of Crystallography and Photonics & Sechenov University, Russia
- 15:50-16:10 **Metabolic Disease Drivers of Hepatocellular Carcinoma, a New Disease Paradigm**
Michael Briggs, Woodland Pharmaceuticals, USA
- 16:10-16:30 **Coffee Break & Networking**

- 16:30-16:50 **Tissue-engineered Construct for Urethral Reconstructive Surgery**
Anastasia Shpichka, Institute of Photonic Technologies, National Center of Crystallography and Photonics & Sechenov University, Russia
- 16:50-17:10 **Novel Advanced Laser-Synthesized Nanomaterials for Cancer Theranostics**
Andrei Kabashin, National Research Nuclear University MEPhI, Russia
- 17:10-17:30 **Nuclear Medicine Through the View of Personalized Healthcare**
Andrei Postnov, National Research Nuclear University Mephi & N.N.Burdenko Institute of Neurosurgery, Russia
- 17:30-17:50 **How to Develop a Novel Type of Strategic Alliances to Move Ahead: Business Ecosystems Grown, Developed and Powered by FiZ**
Christian Garbe, Frankfurt Innovation Center Biotechnology GmbH, Germany
- 17:50-18:10 **How to Develop a Medical School of the Newest Generation: From Canonical Integrity Through a Bridge of the Challenge to the Multi-Integrative Approach**
Sergey Suchkov, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia
- 18:10-19:00 Poster Session**

Day 2 | February 20, 2018 | Tuesday

08:00-08:10 Registrations

Break Out - I

Session I : Cancer Biomarker

- 08:10-08:30 **Different Whole Genome Sequencing Strategies for the Clinical Management of Patients with Oropharyngeal Squamous Cell Carcinoma**
David I Smith, Mayo Clinic, USA
- 08:30-08:50 **Aurora-A Kinase and Cancers: A Biomarker to Detect and a Target to Inhibit**
Claude Prigent, Institute of Genetics and Development of Rennes, France
- 08:50-09:10 **Biomarker-Assisted Drug Development in Oncology – 20 Years and Counting**
Baolin Zhang, FDA – CDER, USA
- 09:10-09:30 **Resistance to Tyrosine Kinase-Targeted Therapy in Lung Cancer: Autophagy and Metabolic Changes**
Olivier E Pardo, CRUK-LIF, UK
- 09:30-09:50 **Wnt Signaling in Tumorigenesis of Astrocytic Brain Tumors**
Nives Pećina-Slaus, Medicine University of Zagreb, Croatia
- 09:50-10:10 **MicroRNA 141 Expression is a Potential Prognostic Marker of Biliary Tract Cancers**
JI-Kon Ryu, Seoul National University College of Medicine, Korea
- 10:10-10:30 Coffee Break & Networking**

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- 10:30-10:50 **miRNA Expression Profiling of Mouse Colon Cancer Stem Cells: A Tumour Specific Signature Traceable Along Colorectal Cancer Progression with Prognostic Value in Human Colon Cancer**
Mariangela De Robertis, University of Bari, Italy
- 10:50-11:10 **Urinary Proteome Changes before Subcutaneous Walker 256 Tumor on Rat Palpable**
Youhe Gao, Beijing Normal University, China
- 11:10-11:30 **Anti-FIRs (PUF60) Auto-Antibodies are Detected in the Sera of Early-Stage Colon Cancer Patients**
Kazuyuki Matsushita, Chiba University Hospital, Japan
- 11:30-11:50 **Prognostic Impact of MED15, CD16, CD57 and TGF-B in Oral Squamous Cell Carcinoma**
Vahid Rakhshan, University of Medical Sciences, Iran
- 11:50-12:10 **Translational Potential of Non-Coding RNAs in Oncology**
Ondrej Slaby, Masaryk University, Czech Republic
- 12:10-13:10 Lunch & Networking**

Session II : Clinical & Translational Biomarkers

- 13:10-13:30 **Circulating miRNAs are Generic and Versatile Therapeutic Monitoring Biomarkers in Muscular Dystrophies**
David Israeli, Genethon, INSERM, France
- 13:30-13:50 **Faster Detection of Ischemia in Free Tissue Transfers by Use of Microdialysis**
Hanne Birke-Sorensen, Aarhus University, Denmark
- 13:50-14:10 **Clinical and Translational Biomarkers for Lysosomal Storage Disorders**
Christiane Auray-Blais, Université de Sherbrooke, Canada
- 14:10-14:30 **Clinical Applications of cfDNA Methylation in Breast Cancer**
Bodour Sahlia, University of Southern California, USA
- 14:30-14:50 **Biosensors and Nanobiosensors for Rapid Point of Care Measurement of Biomarker Proteins**
Paul Millner, University of Leeds, UK
- 14:50-15:10 **Monocyte Chemoattractant Protein-1 (MCP-1) is a Prognostic Biomarker and a Therapeutic Target in Diabetic Nephropathy**
Frederick W. K. Tam, Imperial College London, UK
- 15:10-15:30 **Biomarker Case Identification and Risk Prediction Precedes Prevention of Schizophrenia and Schizoaffective Psychosis**
Stephanie Fryar-Williams, The University of Adelaide, Australia
- 15:30-15:50 **Phase Imaging of Axonal Integrity of Cranial Corticospinal Tract in Experimental Spinal Cord Injury at 9.4T**
Junchao Qian, Center of Medical Physics and Technology of Chinese Academy of Sciences, China

- 15:50-16:10 Coffee Break & Networking**
- 16:10-16:30 Profiling Signaling Proteins in Human Spermatozoa: Biomarker Identification for Sperm Quality Evaluation**
Margarida Fardilha, University of Aveiro, Portugal
- 16:30-16:50 Label Free Detection of Sensitive Mid-Infrared Biomarkers of Glomerulonephritis in Urine Using Fourier Transform Infrared Spectroscopy**
Mei-Ching Yu, Lin-Kou Chang Gung Memorial Hospital, Taiwan
- 16:50-17:10 Autoantibodies Against Aquaporin-5, a Novel Biomarker of Primary Sjögren's Syndrome**
Youngnim Choi, Seoul National University School of Dentistry, South Korea

Session III : Neuro & Immuno Biomarkers | Genomic Biomarkers

- 17:10-17:30 Peripheral Blood Mitochondrial DNA Copy Number is a Potential Biomarker for Progress of Diabetic Nephropathy in Type 2 Diabetes Patients**
Ghada Al-Kafaji, Arabian Gulf University, Bahrain
- 17:30-17:50 DNA Hydrolysis as a Bio-Marker for Immune Dysregulation in Neurological Disorders – Schizophrenia and Bipolar Disorder**
Vijayalakshmi MA, VIT University, India
- 17:50-18:10 Eye Movement as Biomarker of Neurodegenerative Processes in CNS on Example of Parkinson's Disease**
Andrzej Przybyszewski, UMass Medical School University, USA
- 18:10-18:30 Early Candidate Biomarkers Found from Urine of Glioblastoma Multiforme Rat before Changes in MRI**
Youhe Gao, Beijing Normal University, China
- 18:30-18:50 PTPRQ as a Potential Biomarker for Idiopathic Normal Pressure Hydrocephalus**
Yuki Nagata, National Center for Geriatrics and Gerontology, Japan

Break Out - II

Symposium (Part - II)

Biomarkers as a New Entity through the View of Personalized and Translational Medicine

- Sechenov University, National Research Nuclear University MEPhI and Alliance on Translational Medicine, Russia
- WIN, Paris, France
- Frankfurt Innovation Center Biotechnology GmbH, Frankfurt am Main, Germany
- Woodland Pharmaceuticals, USA

Chairman: Sergey Suchkov, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia

Session: Biomarkers in Biopharma & Clinical Applications

Co-Chairs: Victor Tsetlin, National Research Nuclear University MEPhI & Institute of Bioorganic Chemistry, RAN, Russia
Denis Butnaru, Sechenov University, Russia
Michael Briggs, Woodland Pharmaceuticals, USA
Catherine Larue, Integrated BioBank of Luxembourg IBBL, Luxembourg

08:10-08:30 **Genomics Testing and its Applications in Personalized Pediatric Services (mtDNA)**
Anastasiya Voronkova, Sechenov University, Russia

08:30-08:50 **AFM of Tissue Sections is a Useful Complementary Tool as a Biomedical Marker**
Peter Timashev, Sechenov University, Russia

08:50-09:10 **Novel Microengineered Environments for Mouse Embryonic Stem Cell (mESC) Differentiation towards Cardiomyocytes**
Natalia Bakhtina, Karlsruhe Institute of Technology (KIT), Institute of Microstructure Technology (IMT), Karlsruhe, Germany

09:10-09:30 **Nanofiltration of Extracellular Vesicles from Human Plasma & Their On-Chip Qualification and Quantification with a NanoBioAnalytical Platform**
Wilfrid Boireau, Institut FEMTO-ST CNRS, France

09:30-09:50 **Autologous Cardiac Progenitor Transplantation for Myocardial Repair: A Step Towards Personalized Medicine**
Marc Hendrikx, University of Hasselt, Belgium

09:50-10:10 **Myocardial Repair with Customized Exosomes: Stimulation of Proliferation and Cardiomyogenic Differentiation of Cardiac-Committed Transient Amplifying Cells**
Galina Belostotskaya, Institute of Evolutionary Physiology & Biochemistry, Russia

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10:10-10:30 Coffee Break & Networking

10:30-10:50 Antibody-Proteases as Highly Informative Biomarkers and Efficient Targets of The Newest Generation

Sergey Suchkov, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia

10:50-11:20 Conclusions:

Victor Tsetlin, National Research Nuclear University MEPhI, Russia

Michael Briggs, Woodland Pharmaceuticals, USA

Vladimir Lazar, WIN, France

Sergey Suchkov, Sechenov University, National Research Nuclear University MEPhI & Alliance for Translational Medicine (ATM), Russia

11:20-12:00 Panel Discussion

12:00-13:00 Lunch & Networking

Sessions IV: Biomarker Discovery & Validation | Biomarkers in Personalized Medicine

13:00-13:20 First Impressions of Two New Brilliant Biomarkers for Pompe Disease (LSD) in Plasma and Urine in Comparison to Hex4 and Glc4 in Urine

Hermann Mascher, pharm-analyt Labor GmbH, Austria

13:20-13:40 Association of ACE Gene I/D Polymorphism with Susceptibility to Osteoarthritis

Banu Bayram, Muğla Sıtkı Koçman University, Turkey

13:40-14:00 Innovations in Molecular Biology and Proteomics Adapted to *in vivo* Peptide Phage Display Define Active Protein Domains as Biomarkers in Multiple Sclerosis Neuroinflammation

Klaus G. Petry, INSERM, France

14:00-14:20 Conjunction of the Molecular, Cytogenetic and Genetic Biomarkers as Predictor of Vulnerability to Medical Radiation Treatment

Antonina Cebulska-Wasilewska, Polish Academy of Sciences, Poland

14:20-14:40 Serum Level of HMGB1 Indicates Outcome of the Treatment of Tumor Bearing Animals with Antineoplastic Drug NSC631570

Larysa Skivka, Taras Shevchenko National University of Kyiv, Ukraine

14:40-15:00 PITX2 DNA-methylation as the First Clinically Validated Predictive Marker for Anthracycline-Based Chemotherapy in High-Risk Breast Cancer Patients

Manfred Schmitt, Therawis Diagnostics GmbH, Germany

15:00-15:20 Whole Transcriptome Analysis for Identification of Exercise-Related Markers in Thoroughbred Racing Horse

Byung Wook Cho, Pusan National University, South Korea

15:20-15:40 Carbohydrate-Based Electrochemical Biosensors for Detection of a Cancer Biomarker in Human Plasma

Laurent Salmon, Univ Paris-Saclay, France

- 15:40-16:00** **Coffee Break & Networking**
- 16:00-16:20** **Serum Free Bilirubin is a Potential Biomarker of Endogenous Antioxidant Capacity of Human Vascular Endothelium**
Sabina Passamonti, University of Trieste, Italy
- 16:20-16:40** **Alpha-1-Microglobulin/Bikunin (AMBP) Protein Corona (PPC) as Biomarker for Early Diagnosis in Non-Small-Cell Lung Carcinomas (NSCLC) Patients: A Case Report**
Marina Di Domenico, University of Campania “Luigi Vanvitelli”, Italy
- 16:40-17:00** **Mass-Spectra-Based Peak Alignment for Automatic Non-Targeted Metabolic Profiling Analysis for Biomarker Screening in Plant Samples**
Haiyan Fu, South Central University for Nationalities, China

Sessions V: Biomarkers in Clinical Research | Biomarkers in Drug Discovery & Development

- 17:00-17:20** **The Effects of Dietary Polyunsaturated Fatty Acids on Prostate Cancer: Unbiased Proteomic and Phosphoproteomic Studies**
Mu Wang, Indiana University School of Medicine, USA
- 17:20-17:40** **NFL in CSF and Serum, a Potential Translational Dynamic Biomarker of Neurodegeneration in Preclinical Models**
Nathalie Schussler, Sanofi R&D, France
- 17:40-18:00** **Microdialysis Monitoring- A Method for Monitoring Organ and Tissue Chemistry**
Katarina Åsberg, M Dialysis, Sweden
- 18:00-18:20** **Biomarkers Used for Diagnosis and Therapy**
Eva María Molina Trinidad, University of Hidalgo, Mexico
- 18:20-18:40** **Cancer Biomarkers in Biosensors Fabrication for Diagnostic Purposes**
Samar Damiati, King Abdulaziz University, Saudi Arabia

Sessions VI: *Cardiac Biomarkers | Biomarkers Imaging & Dynamics*

- 09:00-09:20 **The Elastic Titin Filament and its Muscle Specific Isoforms as Emerging Biomarkers for Myocellular Pathologies**
Siegfried Labeit, University of Heidelberg, Germany
- 09:20-09:40 **Prediction of IPF within 1-2 year with the Early Changes in Quantitative Imaging Patterns Using High Resolution Computed Tomography**
Grace Hyun J. Kim, David Geffen School of Medicine, UCLA, USA
- 09:40-10:00 **Endothelial Progenitor Cells and Apoptotic Endothelial Cell-Derived Microparticle as Biomarker of Heart Failure Phenotypes**
Alexander Berezin, State Medical University, Ukraine
- 10:00-10:20 Coffee Break & Networking**
- 10:20-10:40 **Gold Nanoclusters: Promising Biomarkers**
Pradipta Purkayastha, Indian Institute of Science Education and Research (IISER), India
- 10:40-11:00 **Anemia in Kawasaki Disease: Hepcidin as a Potential Biomarker**
Ying-Hsien Huang, Kaohsiung Chang Gung Memorial Hospital, Taiwan
- 11:00-11:20 **Developing a Personalized Treatment Model Based on Molecular Biomarkers and Molecular Imaging in Breast Cancer**
Partha Choudhury, Rajiv Gandhi Cancer Institute & Research Centre Delhi, India

Delegate, Poster & Day-3 Speaker Slots Available

Reserve your slot:

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Abstract submission:

https://unitedscientificgroup.com/conferences/biomarkers/Abstract_Submission.php

Poster Session

- P-01 **Elevated Circulating MicroRNA-486-3p and -145 Levels in Hereditary Hemorrhagic Telangiectasia Patients with Cerebral Arteriovenous Malformations: Potential Biomarkers**
Anthony Cannavici, Keenan Research Centre for Biomedical Science, Canada
- P-02 **Bacteriophage-Derived dsRNA of Natural Origin Alters Functional Profile of Rat Microglial Cells Exposed to Hypoxia in vitro: Evaluation of Metabolic and Phenotypic Markers**
Yehor Pashkevych, National University of Kyiv-Mohyla Academy, Ukraine
- P-03 **Expression of Tetraspanin KAI1/CD82 in Breast Cancer in North Indian Females and its Prognostic Implications**
Richa Singh, King George's Medical University, Lucknow, India
- P-04 **Association of Vitamin D Receptor and Toll like Receptor Variants with Colon Cancer risk: A Case Control Study in Egypt**
Ragaa Abdelkader Ramadan, Alexandria University, Egypt
- P-05 **Post-Translational Modifications of STAT3: Modulators of Androgen-Resistance in Prostate Cancer**
Flavia Giamogante, University of Rome, Italy
- P-06 **Assessment and Comparison of Salivary Survivin Biomarker in Oral Leukoplakia, Oral Lichen Planus and Oral Cancer - A Comparative Study**
Ruchika Garg, KLE University, India
- P-07 **Serum 8, 12-iso-iPF₂ α -VI Isoprostane Marker of Oxidative Damage and Cognition Deficits in Children with Konzo**
Bumoko G, University of Kinshasa, Zaire
- P-08 **Determination of Medians of Biochemical Maternal Serum Markers in Healthy Women Giving Birth to Normal Babies**
Noreen, Armed Forces Institute of Pathology(AFIP) Rawalpindi, Pakistan
- P-09 **Specific Platelet microRNA signature for Dementia with Lewy bodies as promising biomarker**
Ana Gámez-Valero, Germans Trias i Pujol Research Institute (IGTP), Can Ruti Campu, Spain
- P-10 **MicroRNAs: A Key Player in Oral Tumors Pathogenesis**
Ghazaleh Baniebrahimi, Tehran University of Medical Sciences, Iran
- P-11 **Diagnosis of Oral Tumors in Children**
Razie khanmohammadi, Tehran University of Medical Sciences, Iran
- P-12 **MicroRNA, Nanoparticles, and Ovarian cancer**
Walaa Fikry Elbossaty, Damietta University, Egypt
- P-13 **Determining the Expression of Biomarkers, Suppressing Extracellular Matrix of the Patients with Malignant Tumors of the Maxillofacial Region**
Ekaterina Kochurova, Sechenovskiy University, Russia
- P-14 **Interleukin-4 Receptor as a Cancer Prognosis Biomarker and Therapeutic Target**
Byunghoon Lee, Kyungpook National University, South Korea



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