CONFERENCE PROGRAM, DAY 1

Greetings: President of the Republic of Lithuania Her Excellency Dalia Grybauskaitė

09:15-10:00 **KEYNOTE LECTURE:**

NOBEL PRIZE WINNER PROF. BRIAN KOBILKA

10:00-11:00 PANEL DISCUSSION:

HIGHLIGHTS IN THE BALTICS — ECOSYSTEMS FOR GLOBAL RESEARCH AND TECHNOLOGIES

RDI LANDSCAPE IN THE BALTICS

Representatives of Lithuania, Latvia and Estonia (tbc)

PRESENTATION ABOUT RDI LANDSCAPE IN IRELAND

Mark Ferguson, Director General, Science Foundation Ireland and Chief Scientific Adviser to the Government of Ireland

11:00-11:30 POSTER SESSION / COFFEE BREAK

11:30–12:50 **SESSION 1**

MECHANISM OF DEGENERATIVE AND GENETIC DISEASES

PRECISION MEDICINE IN NEUROPSY-CHIATRY

Dr. David Goldstein, Institute for Genomic Medicine, the John E. Borne Professor of Genetics and Development, USA

EXPANDING THE POTENTIAL OF GENE EDITING APPLICATIONS

Dr. Giedrius Gasi**ū**nas, CasZyme, Lithuania

MECHANOTRANSDUCTIVE L-TYPE CALCIUM CHANNELS AS A THERA-PEUTIC TARGET FOR METABOLIC MODULATION OF OSTEOARTHRITIC CARTILAGE

Dr. Eiva Bernotien**ė**, Institute Centre for Innovative Medicine, Lithuania

GAUCHER DISEASE AND PARKINSON: FROM CLINICAL OBSERVATIONS TO PREVENTION

Prof. Ari Zimran, Shhare Zedek Medical Center and Medical Practice Consultant, Israel SESSION 2

IMMUNO-ONCOLOGY TREATMENT — CHALLENGES AND OPPORTUNITIES

INDUSTRY ON THE EDGE: THE SPEED OF CLINICAL SUCCESS IN CELL THERAPY AND THE CHALLENGE OF COMMERCIALIZATION

Dr. Øystein Åmellem, Thermo Fisher Scientific, Norway

THE ROLE OF CELLULAR AND GENE THERAPY IN 2018: CAR-T CELL THERAPY

Dietger Niederwieser, University of Leipzig, Germany

ENTRYBODIESTM: CELL-PERMEABLE ANTIBODY FRAGMENTS IN ONCOLOGY

Dr. Priit Kogerman, Lepritech, Estonia

PREDICTING IMMUNOTHERAPY
RESPONSE: BEST CLINICAL PRACTICE
IN ONCOLOGY

Dr. Ana Finzel Pérez, OncoDNA, Gosselies, Belgium **SESSION 3**

3D PRINTING IN MEDICINE

SURFACE MODIFICATION OF ADDI-TIVELY MANUFACTURED TITANIUM SCAFFOLD: EXAMINATION OF TOPOGRAPHY, STRENGTH, AND BIOINTEGRATION

Dr. Jules Poukens, Ortho Baltic, Hasselt University, University of Leuven, Belgium

ADDITIVE MANUFACTURING BRINGS BACK THE SUBPERIOSTEAL IMPLANTS AGAIN FOR INNOVATIVE PROMISING TREATMENT

Dr. Andrejus Surovas, Implantatas, Lithuania

ORTHOPAEDIC POLYMER MP-1™ APPLICATION FOR 3D PRINTING

Alisa Buchman, MMATECH, Israel

MESOSCALE 3D OPTICAL LITHOGRA-PHY FOR BIOMEDICINE Dr. Mangirdas Malinauskas, Vilnius

University, Lithuania

SMART PATIENT-SPECIFIC CRANIAL IMPLANTS. COMBINATION OF 3D PRINTING AND SENSORICS

12:50-14:00 LUNCH

14:00-14:30 PLENARY:

EMERGING TECHNOLOGY USING MAGNET FOR CARTILAGE REPAIR - CLINICAL RESULTS

Prof. Mitsuo Ochi, President, University of Hiroshima, Japan

14:30-15:00 PLENARY:

NEW MOLECULAR TOOLS FOR EPIGENOME ANALYSIS: TOWARDS ADVANCED DIAGNOSTICS OF DISEASE

Prof. Saulius Klimašauskas, Vilnius University, Lithuania

POSTER SESSION / COFFEE BREAK

15:30-17:00

SESSION 4

SESSION 5

SESSION 6

PERSONALIZED MEDICINE AND DIAGNOSTICS

GENOMICS-DRIVEN BIOMARKER
DISCOVERY AND DEVELOPMENT AT
CHOP AND APPLICATIONS IN PATIENT
CARE

Dr. Hakon Hakonarson, Director of the Center for Applied Genomics at the The Joseph Stokes Jr. Research Institute of Children's Hospital of Philadelphia

RETURN OF RESEARCH RESULTS TO PARTICIPANTS OF ESTONIAN BIOBANK

Dr. Neeme Tõnisson, Estonian Genome Centre of the University of Tartu, Estoni

RECONSTRUCTING THE KIDNEY FROM HUMAN IPS CELLS

Prof. Ryuichi Nishinakamura, Kumamoto University, Japan

HUMAN PLURIPOTENT STEM CELLS: HURDLES AND NEEDS FOR APPLICA-TION

TION
Prof. Andreas Kurtz, Charite University
Medicine Berlin, Germany

THE ROLE OF MODERN GENOMIC TECHNOLOGIES IN PRECISION HEALTHCARE

Prof. Lina Basel, Rabin Medical Center, Tel

DIGITAL HEALTH

BIG DATA AND THE TRANSFORMA-TION OF HEALTHCARE

Dr. Martin Kohn, former CMS at IBM, USA

INTERNET OF THINGS INTEGRATION INTO ELDERLY PEOPLE LIFE

Prof. Egidijus Kazanavičius, Faculty of Informatics, Kaunas University of Technology, Lithuania

ANONYMIZED IDENTIFICATIONAL TECHNOLOGY AND ITS USE IN EHR CLINICAL TRIAL PATIENT RECRUIT-MENT

Dr. Tigran Arzumanov, Clineron, Switzerland

VR TECHNOLOGIES FOR HEALTH

Prof. Tomas Blažauskas, Faculty of Informatics, Kaunas University of Technology, Lithuania STEM CELLS

OPTIMIZATION OF MESENCHYMAL STEM CELL MANUFACTURING: THE EFFECTS OF VARIOUS XENO-FREE MEDIA ON CELLS PROLIFERATION, PHENOTYPE AND DIFFERENTIATION POTENTIAL

Dr. Jekaterina Kazantseva, Cellin Technology, Estonia

CONFERENCE PROGRAM, DAY 2

09:00-10:00 PLENARY DISCUSSION

SCIENCES

GLOBAL LIFE SCIENCES ECOSYSTEMS — TRENDS AND KEY TO SUCCESS (TBC)

10:00-10:30 POSTER SESSION / COFFEE BREAK

10:30-12:15

SESSION 7

LASER APPLICATIONS IN LIFE

RESEARCH AS AN IMPULSE FOR THE INDUSTRY POWERED BY HEALTH-CAPITAL CLUSTER

SESSION 8

SESSION 9

SCANBALT FORUM

HOW TO IMPROVE DISEASE DIAGNO-SIS USING THE COMBINATION OF LASERS AND ULTRASOUND?

Mantyydas Jašinskas, EKSPLA, Lithuania

DYNAMIC OPTICAL IMAGING: FROM PROGRAMMABLE MICROSCOPY WITH SLMS TO TUNABLE LENSES

Prof. Dr. Monika Ritsch-Marte, Division for Biomedical Optics Department for Physiology and Medical Physics Medical University of Innsbruck, Austria

SUB-MICRO HYBRID SUBTRAC-TIVE-ADDITIVE 3D FABRICATION OF MEDICAL DEVICES USING FEMTOSEC-OND LASER: TOWARDS WIDESPREAD SOLUTION

Linas Jonušauskas, Femtika, Lithuania

DETECTION OF OTC DRUGS IN BIOLOGICAL FLUIDS BY MEANS OF COLLOIDAL SERS WITH NEAR INFRARED LASER EXCITATION

Valdas Šablinskas, Vilnius university,

FROM BCRT TO BECAT – THE PATH TO INNOVATIVE THERAPIES IN REGEN-ERATIVE MEDICINE

Prof. Dr. med. Petra Reinke, Charité —

TRANSLATION OF BIOCHEMICAL RESEARCH INTO DRUG DESIGN TO TREAT METABOLIC AND NEURODE-GENERATIVE DISEASES

Prof. Dr. Hans-Ulrich Demut, Fraunhofer Society, Institute for Cell Therapy and Immunology Leipzig, Institute of Bioanalytics and Bioprocesses Potsdam-Golm, Germany

FROM BASIC SCIENCE TO INDUSTRIAL APPLICATIONS: CARBOHYDRATE VACCINES AND CONTINUOUS DRUG PRODUCTION

Prof. Dr. Peter H. Seeberger,Max Planck Institute of Colloids and Interfaces, Germany 09:00 — 10:00 BALTIC SEA REGION MACRO-RE-

GIONAL ACCELERATOR AND STRATE-GY DEVELOPMENT

Speakers

Jaanus Pikani, Chairman, ScanBalt fmba Estonia

Peter Frank, General Secretary, ScanBalt

(by invitation, interested persons can contact pf@scanbalt.org)

10:30-11:45 HEALTH IT SME DEVELOPMENT IN THE BALTIC SEA REGION

WELCOME BY MODERATOR

Thomas Frahm, Project director, Lite Science Nord

Introduction to BaltCityPrevention Sami Perälä, Director, EPTEK

BSR as one market — Top 3 to do's from a company perspective

Didzis Glazitis, CEO, Telemedica

BSR as Health IT investment target — Should investors take an interest? Seppo Makinen, Partner, Pathena Investments

Public Health Authorities — Need for new technologies in prevention?

Elisebet Kivimäki, Into Seinäjoki Oy

11.45 - 12.15

ENCE FROM VIETNAM

Round table: How do we collaborate to make BSR a global hotspot for health it?

Concluding remarks: Sami Perälä, EPTEK

INSPIRATIONAL TALK AND DISCUS-

SION: HEALTH SECTOR OPPORTUNI-

TIES IN SOUTH-EAST ASIA: EXPERI-

Inspirational talk: Sulev Kõks, Professor,

12.1E 1/.00 DIEN

13:15-14:00 PLENARY:

BIOMEDICAL DIAGNOSTIC, MONITORING AND THERAPEUTIC TECHNOLOGIES (TBC)

14:00-14:30

12:15-13:15

PLENARY:

LUNCH

HOW TOP-PERFORMING ORGANIZATIONS IMPROVE PATIENT OUTCOMES THROUGH DIGITALIZATION

Dr. Clemens Suter-Crazzolara, Chief Product Expert, SAP, German

14:30-16:00

SESSION 10

SESSION 11

DIAGNOSTIC TECHNOLOGIES

LIFE SCIENCES MEET TECHNOLOGIES FOR BETTER HEALTHCARE SOLU-TIONS

CREATING PIONEERING OPPORTUNI-TY IN GREATER MANCHESTER

Prof. Jackie Oldham, The University of Manchester, United Kingdom

BIOACTIVE MATERIALS FOR ADVANCED PHARMACEUTICAL AND HEALTHCARE SOLUTIONS

Dr. Aist**ė** Jekabson**ė**, Lithuanian University of Health Sciences, Neuroscience Institute, Lithuania

THERANOSTICS - COMPLEMENTARY ENGINEERING AND MEDICINE

Prof. Eugenijus Kaniušas, Institute of Electrodynamics, Microwave and Circuit Engineering, Vienna University of Technology, Austria

IMPACT OF DIGITISATION ON PHAR-MACEUTICAL MANUFACTURING

Matt Moran, Biopharmachem Ireland, Ireland

APPLICATION OF ULTRASONIC
TECHNOLOGIES FOR CHARACTERIZATION AND PROPERTIES MEASUREMENT OF BIOLOGICAL TISSUES AND
LIQUIDS

Prof. Dr. Renaldas Raišutis, Kaunas University of Technology, Lithuania

URINE LIQUID BIOPSY FOR PROSTATE CANCER DIAGNOSTICS

Julius Gagilas, Diagnolita, Lithuania

MINIATURIZED AND MULTIPLEXED DIAGNOSTIC ASSAYS – FROM R&D TO PRODUCTION AND MARKET

Paulina Gozdzialska, SCIENION AG, Germany

INDEPENDENT DIAGNOSTIC INFOR-MATION CONTENT OF BIOELECTRIC AND BIOMAGNETIC RECORDINGS

Prof. Jaakko Malmivuo, Technische Universität Berlin, Germany

NEW PERSONAL HEALTH DEVICES FOR UNOBTRUSIVE MONITORING OF CHRONIC DISEASES

Prof. Vaidotas Marozas, Kaunas University of Technology, Lithuania Moderator: Jaanus Pikani, Chairman, ScanBalt

13.15 — 14.30
INDIA — EU COLLABORATION ON LIFE

SCIENCES AND THE HEALTH SECTOR Sharda Balaji, Founder, NovoJuris Legal Paul Lillrank, Professor, Aalto University V K Singh, Managing Director, Innovatio— Curis, Sachin Gaur, Entrepreneur, mobile and Internet solutions