2\textsuperscript{nd} LBG Meeting for

HEALTH SCIENCES 2014

9\textsuperscript{th} and 10\textsuperscript{th} of December 2014
Aula der Wissenschaften | Vienna

In cooperation with AIT and Medical University of Vienna
**PROGRAMME:** Tuesday the 9th of December 2014

<table>
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<th>Time</th>
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<tr>
<td>9:00</td>
<td>Registration</td>
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| 9:30 – 10:00 | Welcome Note by Hemma Bauer, Head of Unit – Life Sciences, Austrian Ministry of Science, Research and Economy  
Welcome Note by Markus Müller, Vice-Rector for Research, Medical University of Vienna  
Welcome Note by Claudia Lingner, General Manager, Ludwig Boltzmann Gesellschaft |
| 10:00 – 11:30| **SESSION I: Immunology**  
CHAIR: Josef Smolen / Hannes Stockinger |
| 10:00 – 10:30| **KEY NOTE:** Toward personalized medicine in inflammation: How testing insights into immunoinflammatory pathways has changed and will change outcomes of chronic inflammatory diseases  
Josef Smolen, University Department of Medicine III, Medical University of Vienna, Austria |
| 10:30 – 11:30| **Presentation of the four best abstracts: Immunology**  
1. Targeted modulation of PAI-1 in wild-type mice with abdominal sepsis is not lifesaving in a large heterogeneous group and may be detrimental in the low-risk-of-death cohort, Susanne Drechsler et al.  
2. Nitric oxide regulates the expression of inflammatory genes via mitochondrial reactive oxygen species, Adelheid Weidinger et al.  
3. Abatacept (CTLA-4Ig) Treatment reduces Activation Induced Cell Death (AICD) and Susceptibility of T cells to Regulatory T cell Suppression in Patients with Rheumatoid Arthritis (RA), L. Göschl et al., Presenter: Clemens Scheinecker  
4. Adipose-derived stem cell secretome ameliorates inflammation and organ failure after hemorrhage & trauma in rats, Mostafa Ashmwe et al. |
| 10:00 – 10:30| **SESSION II: Cardiovascular Research**  
CHAIR: Manuel Mayr / Johann Wojta |
| 11:45 – 13:15| **KEY NOTE:** Post-genomics technologies for biomarker discovery and mechanistic insights into cardiovascular disease  
Manuel Mayr, The James Black Centre, King’s College, University of London, UK |
| 12:15 – 13:15| **Presentation of the four best abstracts: Cardiovascular Research**  
1. TMEM16A is upregulated and contributes to the depolarization of pulmonary arterial myocytes isolated from IPAH patients, Rita Papp et al.  
2. Lack of ABCG2 leads to biventricular dysfunction and remodeling in response to hypoxia, Bence M. Nagy et al.  
3. Hypoxia induced changes in pulmonary circulation: role of P22PHOX dependent NADPH oxidase, Chandran Nagaraj et al.  
4. TNF Receptor I Signaling: a Mechanistic Link between Cardiac Inflammation and Fibrosis, Clemens Duerrschmid et al., Presenter: Sandra Haudek |
| 13:15 – 14:00| Lunchbreak                                                            |
| 14:00 – 15:15| **Moderated Poster Session** (for details see page 6ff.)               |
| 15:15 – 16:45| **SESSION III: Musculoskeletal Research**  
CHAIR: Georg Duda / Heinz Redl |
| 15:15 – 15:45| **KEY NOTE:** Biology Meets Mechanics: A Tight Interplay is Basis for a Fast Healing  
Georg Duda, Julius Wolff Institute for Biomechanics and Musculoskeletal Regeneration, Charité, Berlin, Germany |
| 15:45 – 16:45| **Presentation of the four best abstracts: Musculoskeletal Research**  
1. Bone Matrix Mineralization after Sclerostin Antibody Treatment in a Mouse model of Osteogenesis Imperfecta, Andreas Roschger et al.  
2. Revealing underlying mechanisms of shockwave treatment induced wound healing, Anna Weihs et al.  
3. Silk fibroin as a Promising Candidate for Anterior Cruciate Ligament Tissue Engineering Approaches - an in vitro and in vivo Study, Andreas Teuschl et al.  
4. Differentiation specific skeletal muscle reporter system, Deniz Oztürk-Kaloglu et al. |
| 16:45 – 17:00| Coffeebreak                                                           |
PROGRAMME: Tuesday the 9th of December 2014

17:00 – 18:30 SESSION IV: Neurosciences
CHAIR: Gerhard Franz Walter / Hans Lassmann

17:00 – 17:30 KEY NOTE: Neurosciences: Can we see the living brain?
Gerhard Franz Walter, International Neuroscience Institute, Hannover, Germany

17:30 – 18:30 Presentation of the four best abstracts: Neurosciences
_ Distinct Patterns of Sirtuin Expression During Progression of Alzheimer’s Disease, Mirjam Lutz et al.
_ Extracorporeal Shockwave Treatment activates Schwann cells in vitro and in vivo, Christina Schuh et al.
_ Automatic Evaluation of Continuous EEG for Neurmonitoring of Critical Ill Patients, Franz Fürbass et al.
_ Nitric oxide mediated mitochondrial dysfunction induces glutamate excitotoxicity upon traumatic brain injury, Jamile Paier-Pourani et al.
Presenter: Andrey Kozlov

18:30 Dinner

PROGRAMME: Wednesday the 10th of December 2014

9:30 – 10:30 Presentation of the four best abstracts: Oncological Research
_ Aberrant STAT3-ARF signaling targets distinct subgroups of lethal prostate cancer, Jan Pencík et al.
_ The First Metastasizing Mouse Model for Ewing’s Sarcoma, Tahereh Javahei et al.
_ The role of STAT3β in hematopoietic malignancy, Jaqueline Horvath et al.
_ Loss of cJun enhances tumor formation in a mouse model of prostate cancer, Astrid Aufinger et al.

10:30 – 10:45 Coffeebreak

10:45 – 12:15 SESSION VI: Public Health
CHAIR: Mark Petticrew / Brigitte Piso

10:45 – 11:15 KEY NOTE: Evidence-based policy making – What type of evidence do we need?
Mark Petticrew, London School of Hygiene & Tropical Medicine, London, UK

11:15 – 12:15 Presentation of the four best abstracts: Public Health
_ Affordability of programmes to prevent spontaneous preterm birth in Austria: a budget impact analysis, Ingrid Zechmeister-Koss et al.
_ Effectiveness evaluation of a program to promote health on children in primary schools: a cluster randomized controlled trial, Ludwig Grillich et al.
_ Prevalence of mental health problems and related risk factors in the Mental Health of Austrian Teenagers (MHAT)-Study, Michael Zeiler et al.
_ Effectiveness and sustainability of effects of a low threshold physical activity intervention in residential aged care, Viktoria Quehenberger et al.

12:15 – 13:15 Lunchbreak

13:15 – 14:30 Moderated Poster Session (for details see page 12ff.)

14:30 – 14:40 Resumee by Michaela Fritz, Head of Department Health & Environment, AIT Austrian Institute of Technology

14:40 – 15:30 Award Ceremony: „Best Abstract Award“ sponsored by Merck, Roche Austria, Günther Schlag Foundation
MODERATED POSTER SESSION: DAY 1

December 9th 2014 | Start 14:00

Start of Walk

1st Floor, Säulenhalle

IMMUNOLOGY

Team 1

Moderator: Soheyl Bahrami, LBI Experimental and Clinical Traumatology

Start of Walk

1st Floor, Säulenhalle

Oncological Research

Team 1

1st Floor, Säulenhalle

Moderator: Lukas Kenner, LBI Cancer Research

Start of Walk

472 Activin A Is Anti-Lymphangiogenic in a Melanoma Mouse Model
Magdalena Heinz et al.

488 Effect of Mevalonate Pathway – Inhibitors on Epigenetic Regulation in Cancer Cells
Heidrun Karlic et al.

498 Expression of CD25 (IL-2RA) is dependent on STAT5 activity in neoplastic stem cells in Ph+ CML
Irina Sadovnik et al.

499 Combined chemo-radiotherapy with gemcitabine in patients with locally advanced inoperable transitional cell carcinoma of the urinary bladder and/or in patients ineligible for surgery: a phase I trial
Mark Bachner et al.

500 Circulating tumor cells (CTC) in urothelial cancer (UC) patients relapsing after or refractory to platinum based chemotherapy
Mark Bachner et al.

501 Targeting of JAK2-STAT5 as a novel therapeutic concept in canine mastocytomas
Alexandra Keiler et al.

510 Growth hormone resistance exacerbates cholestasis-induced murine liver fibrosis
Patricia Stiedl et al.

513 Disruption of STAT3 signaling promotes KRAS induced lung tumorigenesis
Beatrice Grabner et al.

528 Loss of JAK2 Causes Profound Hepatosteatosis but Diminishes Hepatocellular Carcinoma
Madeleine Themanns et al.

579 Phase IIB trial to evaluate capecitabine (C), erlotinib (E), and bevacizumab (B) in patients (pts) with unresectable and/or metastatic pancreatic cancer (PC) – Results of the REBECa trial including pharmacokinetics (PK) and circulating tumor cells (CTCs)
Robert Köngisberg et al.

585 BAC-based Expression System Technology for Mammalian Cells
Katalin Zboray et al.

588 Next Generation Sequencing based receptor repertoire analysis reveals that expanded B- and T-cells can be found in renal tissue as well as in peripheral blood
Johannes Wenberger et al.

589 Resveratrol and the resveratrol prodrug FEHH4-1: a comparative study in leukemia T-cells
Katrin Goldhahn et al.

591 Effects of Free Curcumin and a Novel Nanocarrier System Called CurcuEmulsomes on Different Cell Types: A Comparative Study
Lukas Gober et al.

607 Patients with IPAH and pulmonary hypertension due to COPD or IPF possess distinct inflammatory profiles
Leigh Marsh et al.

619 Thiol-activated hydrogen sulfide donors and their anti-inflammatory potential in the mouse macrophage cell line RAW 264
Silvia Loebsch et al.

646 Development of a Point-of-Care device for immune monitoring at the intensive care unit
Helene Zirath et al.

686 Stat5 gene dosage in T cells modulates CD8+ T cell homeostasis and attenuates murine contact hypersensitivity response
Harini Nivarthi et al.

702 Fibroblast-like synovial cells and monocytes team up in the organization and the dynamic modeling of the synovial tissue
Ruth Byrne et al.

715 Activated endothelial cells directly contribute to the pro-thrombotic state during inflammation: Ex vivo evidence
Johannes Zipperle et al.

716 Characterization of modifications induced by age and gender upon survival and immuno-inflammatory responses in the post-traumatic sepsis in the mouse
Susanne Drehsl et al.

718 Suppression of overall inflammatory response capacity immediately after hemorrhage and resuscitation
Arian Bahrami et al.
### Neurosciences
#### Team 1

**Start of Walk:**

**582** Two different ways to look inside the brain - The Radiologists’ vs. Forensic Pathologists’ view  
Krebs Nikolaus et al.

**633** Updated GABA-A receptor pharmacology  
Margot Ernst et al.

**663** Online seizure detection for epilepsy monitoring units  
Manfred M. Hartmann et al.

**665** Automatic artifact removal for long-term EEG monitoring  
Manfred M. Hartmann et al.

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### Public Health
#### Team 1

**Start of Walk:**

**692** The evaluation of indicators for implementing policy-oriented health goals  
Rahel Kahler et al.

**477** p16/Ki-67 immunotesting for triage of low grade cervical cytology: a systematic review  
Agnes Kisser et al.

**480** Overview of screening recommendations for pregnant women and children (0-6 yrs.) from evidence-based guidelines  
Inanna Reinsperger et al.

**482** Sociomedical risk assessment during prenatal care: a systematic overview of recommendations from international evidence-based guidelines  
Inanna Reinsperger et al.

**487** Effects of school health promotion on social inequalities. A systematic review  
Felix Hofmann et al.

**673** Factors influencing the evaluation of workplace health promotion: results from a systematic review  
Almas Merchant et al.

**494** Effectiveness of Acupuncture: Overview of Cochrane Systematic Reviews  
Johanna Breuer et al.
MODERATED POSTER SESSION: DAY 1

December 9th 2014 | Start 14:00

Cardiovascular Research

Team 1 2nd Floor, Jesuitensaal

Moderator: Manuel Mayr, King’s College, University of London

Start of Walk

495 Indications for occupational therapy for children and adolescents: overviews of reviews and guideline recommendations
Johanna Breuer et al.

497 Costs of day surgery: An analysis of data and methods for varicose vein surgery
Stefan Fischer

502 Health promoting quality-assured health literate healthcare organizations – the Vienna concept
Jürgen M. Pelikan et al.

523 The effectiveness of school-based interventions in promoting student self-esteem – a systematic review
Edith Flaschberger et al.

557 Purinergic signaling is involved in endothelial cell sprouting
Severin Mühleder et al.

569 Clinical characteristics and mean platelet volume in patients with Type-1 and Type-2 myocardial infarction
Bernhard Jäger et al.

595 IL-33 induces tissue factor in human endothelial cells – impact on atherosclerotic plaque thrombotic potential
Stefan Stojkovic et al.

596 Elevated Levels of Growth Differentiation Factor-15 Classifies High-risk Patients with Acute Coronary Syndrome that Benefit from High-dose Highly Efficient Statins
Ioannis Tentzeris et al.

598 Lung vessel tortuosity for the non-invasive detection of pulmonary hypertension
Michael Pienn et al.
**MODERATED POSTER SESSION: DAY 2**

**December 10th 2014 | Start 13:15**

**Oncological Research**

**Team 2 | 1st Floor, Säulenhalle**

**Moderator: Michel Arock, Laboratoire de biologie et de pharmacologie appliquée (ENS Cachan)**

**Start of Walk**

- **580** Two-Stage Enrichment of CTCs Using the Parsortix Device to Improve their Molecular Analysis
  Eva Obermayr et al.

- **605** miRNAs as Predictor of Tumor Spread in Serous Ovarian Cancer
  Katharina Auer et al.

- **613** Characterization of Proliferating CD45 and EpCAM Double Positive Cells in Ascites of an Ovarian Cancer Patient with Two Different TP53 Mutations
  Nyamdelger Sukhbaatar

- **615** In vitro uptake studies in various cancer cell lines with [11C]erlotinib
  Alexander Traxl et al.

- **618** Detection of colon cancer by DNA methylation analysis on Evalution
  Walter Pulverer et al.

- **623** Liaison between signaling and metabolism – two hallmarks of cancer – exemplified by ErbB/PI3K and fatty acid synthase in ovarian carcinoma
  Katharina Pröstling et al.

- **625** Fatty acid synthase – a useful metabolic marker of cell proliferation in ovarian cancer and its precursor cells
  Daniel Veigel et al.

- **639** Identification of BRD4 as a novel drug target in chronic myeloid leukemia
  Barbara Peter et al.

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**Cardiovascular Research**

**Team 2 | 1st Floor, Säulenhalle**

**Moderator: Andrea Olschewski, LBI Lung Vascular Research**

**Start of Walk**

- **599** Dynamic contrast-enhanced computed tomography for the non-invasive diagnosis of pulmonary hypertension
  Michael Pienn et al.

- **604** Frequency of cardiopulmonary comorbidities in patients with pulmonary hypertension
  Philipp Douschan et al.

- **606** Acute hemodynamic response of pulmonary hypertension patients during right heart catheterization
  Vasile Foris et al.

- **608** The extracellular matrix in intrapulmonary arteries of IPAH patients
  Julia Hoffmann et al.

- **611** Age intrinsic loss of telomere protection in endothelial cells
  Philipp Hohensinner et al.

- **612** Human monocyte subsets differently express tissue factor
  Konstantin Krychtiuk et al.

- **614** Preoperative serum creatinine and longterm risk in octogenarians after cardiac surgery – a cohort analysis
  Martin Hermann Bernardi et al.

- **620** Intraventricular Flow Patterns in the LVAD supported Heart
  Philipp Aigner et al.

- **626** Mitochondrial DNA and Toll-Like Receptor-9 are Associated with Mortality in Critically Ill Patients
  Konstantin Krychtiuk et al.

- **628** In-vitro/in-vivo biocompatibility characteristics of small diameter thermoplastic polyurethane vascular graft
  Marjan Enayati et al.
637  Effects of low level light therapy by REPULS in cell culture models
Sidrah Chaudary et al.

644  Impact of bisphosphonates and proton pump inhibitors on mortality among
Austrian hip fracture patients
Wolfgang Brozek et al.

609  Differential metabolic activity of human amniotic membrane according to the
region of their origin
Asmita Banerjee et al.

649  Tissue banking improves osteogenic differentiation potential of human amniotic
membrane
Andrea Lindenmair et al.

667  Isolation of angiogenic cytokines and important structural proteins from the human
placenta
Johannes Hackethal et al.

689  Decellularized vessel grafts from human placenta for the development of new
prevascularization approaches
Karl Schrieder et al.

CDK6 is a critical regulator of hematopoietic stem cell activation under cellular
stress
Iris Uras et al.

Expression of thyroid hormone binding protein μ-crystallin (CRYM) in the
development and progression of prostate cancer and its role in the invasion,
migration and apoptosis.
Osman Aksoy

The tyrosine kinase TYK2 as a therapeutic target in Anaplastic Large Cell
Lymphoma
Nicole Prutsch et al.

The Ki-1 antigen (CD30): a novel marker and target in advanced systemic
mastocytosis
Katharina Blatt et al.

Non-invasive Instant Genotyping of Fluorescently Labelled Transgenic Mice
Dieter Fink et al.

Pro-Atherogenic and Anti-Angiogenic Effects of Nilotinib: A Potential Explanation
for Vascular Events in Patients with CML
Emir Hadzijusufovic et al.

Body fluid cancer diagnostics via DNA-methylation and – autoantibody- based
biomarkers
Christa Nöhammer et al.

The Calcium-Sensing Receptor: a Novel Target for Colorectal Cancer Prevention
Abhishek Aggarwal et al.
**Public Health**

**Moderator: Wolfgang Dür, LBI Health Promotion Research**

**Start of Walk: 11:15**

1. **572** Comparative effectiveness of screening and counseling interventions conducted by non-physicians and physicians. A systematic review.
   Christina Kien et al.

2. **581** Uncovering the challenges of implementing the Baby-Friendly Hospital Initiative: A qualitative interview study in Austria
   Christina Wieczorek et al.

3. **597** Substance Abuse Patterns among University Students: Regional and Gender Differences
   Anne Unger et al.

4. **629** Using a linked evidence approach to determine GRADE strength of evidence for a complex public health topic: verification of elimination of onchocerciasis
   Peter Mahlknecht et al.

5. **636** Motives for the implementation of health promotion programmes in schools
   Friedrich Teutsch

6. **651** Sex-specific differences in diabetes-prevention: A systematic review and meta-analysis
   Anna Glechner et al.

7. **662** Socioeconomic inequalities in non-communicable diseases and their risk factors: an overview of systematic reviews
   Isolde Sommer et al.

8. **492** Analysing strategies for the identification of ineffectiveness in health care: the potential to prevent overdiagnosis
   Julia Mayer et al.

9. **473** Sustainability of psychiatric rehabilitation: systematic review
   Brigitte Piso et al.

10. **693** How Do Social and Migrant Specific Determinants influence Health Literacy among Turkish and Ex-Yugoslavian Migrants in Austria?
    Kristin Ganahl et al.

**Cardiovascular Research**

**Moderator: Johann Wojta, LBC Cardiovascular Research**

**Start of Walk: 11:15**

11. **635** Long-term mortality of patients with atrial fibrillation undergoing percutaneous coronary intervention with stent implantation for acute and stable coronary artery disease
    Miklos Rohla et al.

12. **652** The NF-κB inhibitor plumericin inhibits senescence-associated SA Beta-gal activity, ICAM-1 expression, and ROS production and promotes nitric oxide bioavailability in stress-induced endothelial cells
    Shafaat Yar Khan et al.

13. **690** Induction of Senescence and the Senescence-Associated Secretory Phenotype in Vascular Endothelial Cells
    André Oszwald et al.

14. **654** PCU in Rat and Swine - a Comparison
    Magdalena Eilenberg et al.

15. **678** Fetal QRS detection from non-invasive maternal abdomen ECGs - combining beat and sequence based approaches
    Martin Kropf et al.

16. **679** Electricity induced ventricular fibrillation at an isolated, perfused rabbit heart - detection of ventricular fibrillation thresholds
    Philipp Käser et al.

17. **681** Continuous long-term monitoring of rotary blood pump recipients based on pump signals
    Christoph Gross et al.

18. **687** Combined pre-and post-capillary pulmonary hypertension in heart failure: epidemiology and right ventricular function
    Mario Gerges et al.

19. **688** Pulmonary Artery Occlusion Waveform Analysis for the Assessment of Pulmonary Vascular Disease in Pulmonary Hypertension Due to Left Heart Disease
    Christian Gerges et al.
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