



Ludwig Boltzmann Gesellschaft



PROGRAMME

First LBG Meeting for **HEALTH SCIENCES 2013**

December 2, 2013

Haus der Industrie | Schwarzenbergplatz 4 | Vienna



First LBG Meeting for HEALTH SCIENCES 2013

PROGRAMME: Monday, 2nd of December 2013

08:00	Registration
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09:00	Welcome note Josef Pröll, President of LBG
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09:10 – 10:40	SESSION I: Musculo-Skeletal Research CHAIRS: Heinz Redl, LBI Experimental and Clinical Traumatology Eva Scheurer, LBI Clinical Forensic Imaging Lecture: LB Cluster Rheumatology, Balneology and Rehabilitation Günter Steiner Lecture: LBI Experimental and Clinical Traumatology Heinz Redl Lecture: LBI Electrical Stimulation and Physical Rehabilitation Helmut Kern Lecture: LBI Osteology Barbara Misof Lecture: LBI Clinical Forensic Imaging Eva Scheurer
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10:40 – 11:00	Coffeebreak
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11:00 – 12:30	SESSION II: Cardiovascular Research CHAIRS: Andrea Olschewski, LBI Lung Vascular Research Johann Wojta, LB Cluster Cardiovascular Research Lecture: LB Cluster Cardiovascular Research Johann Wojta Lecture: LBI COPD and Pneumological Epidemiology Otto C. Burghuber Lecture: LBI Lung Vascular Research Grazyna Kwapiszewska-Marsh
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Lecture: LBI Translational Heart Failure Research
Egbert Bisping

Lecture: LBI Health Promotion Research
Wolfgang Dür

12:30 – 14:00	Lunchbreak and Poster-Preview
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14:00 – 15:30	SESSION III: Oncological Research CHAIRS: Peter Valent, LB Cluster Oncology Claudia Wild, LBI Health Technology Assessment Lecture: LB Cluster Oncology Peter Valent Lecture: LB Cluster Translational Oncology Robert Zeillinger Lecture: LBI Cancer Research Richard Moriggl Lecture: LBI Health Technology Assessment Claudia Wild
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15:30 – 16:00	Coffeebreak
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16:00 – 16:30	Highlight – Talk Quality assurance and research assessment in the molecular life sciences Bernd Pulverer, EMBO - European Molecular Biology Organization CHAIR: Claudia Lingner, LBG
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16:30 – 19:00	Moderated Poster Session 16:30 – 19:30 Round I 16:30 – 17:30 Round II please see detailed programme for more information
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19:00 – 19:30	Awarding of Poster Prizes
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19:30 – 21:00	Dinner (Buffet)
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MODERATED POSTER SESSION



Round I: 16:30 – 17:30

LB Cluster Rheumatology, Balneology and Rehabilitation

Moderator: Klaus Klaushofer, LBI Osteology

Anti-inflammatory and apoptotic effects of the polyphenol curcumin on human fibroblast-like synoviocytes

Burkhard Kloesch, Tatjana Becker, Elisabeth Dietersdorfer, Hans Kiener and Guenter Steiner

Hydrogen sulfide (H₂S) inhibits IL-1 β stimulation of fibroblast-like synoviocytes from osteoarthritis patients in a 3-D model

Daniela Sieghart, Hans Kiener, Tatjana Becker, Guenter Steiner and Burkhard Kloesch

The influence of TNF α on the expression of genes of the molecular clock

Becker, TM; Humpeler, S, van Baarsen, L, Gerlag, D, Tohidast-Akrad, M; Zenz, P; Kiener, HP; Steiner, G and Ekmekcioglu, C

Clinical efficiency of Nuclear Magnetic Resonance Therapy in Osteoarthritis

Kulich W, Stritzinger B, Steinecker B

LBI Experimental and Clinical Traumatology

Moderator: Helmut Kern, LBI Electrical Stimulation and Physical Rehabilitation

Nitrite protects mitochondria from iron-mediated injury under hypoxia

Dungel P, Perlinger M., Faulhammer B., Weidinger A., Redl H., Kozlov AV

A dual-level approach for prevascularization in tissue engineering

Wolfgang Holnthoner, Sabrina Riedl, Pablo Hofbauer, Petra Aigner, Karl Schneider, Sabine Pfeifer, Rainer Mittermayr, Sylvia Nürnberger, Heinz Redl

Human amniotic membrane: a promising natural biomaterial for tissue engineering

Susanne Wolbank, Andrea Lindenmair, Asmita Banerjee, Sylvia Nürnberger, Christa Hackl, Simone Hennerbichler, Christian Gabriel, Johann Eibl, Heinz Redl

Homogeneity versus diversity: Inhibition of plasma PAI-I in murine sepsis proved lethal in homogenous cohorts but not in all-inclusive population

P Raeven, KM Weixelbaumer, S Drechsler, A Klotz, M Jafarmadar, H Redl, S Bahrami, PJ Declerck, MF Osuchowski

A novel coagulation assay incorporating adherent endothelial cells in thromboelastometry

Johannes Zipperle, Christoph J. Schlimp, Wolfgang Holnthoner, Anna-Maria Husa, Sylvia Nürnberger, Heinz Redl, Herbert Schöch

Therapeutic potential of adipose-derived stem cells after hemorrhage and trauma in rats

Carina Penzenstadler, Mostafa Ashmwe, Arian Bahrami, Anton Klotz, Mohammad Jafarmadar, Asmita Banerjee, Susanne Wolbank, Heinz Redl and Soheyl Bahrami

LBI Electrical Stimulation and Physical Rehabilitation

Moderator: Sabine Grassegger, LBI Clinical Forensic Imaging

Electrical Stimulation of sedentary seniors, counteract muscle decline

Helmut Kern, Stefan Löffler, Samantha Burggraf, Hannah Fruhmans, Michael Vogelauer, Christian Hofer

Strength of the trunk muscles correlates moderately with the timing of anticipatory postural adaptations

Nejc Sarabon, Helmut Kern

Assessing the Denervated Muscle with Non- or Minimal-Invasive Methods: Measurement of Tissue Density and Electrophysiological Properties

Christian Hofer, Winfried Mayr, Claudia Straub, Michaela Mödlin, Samantha Burggraf, Hannah Fruhmans, Stefan Löffler, and Helmut Kern

LBI Osteology

Moderator: Burkhard Klösch, LB Cluster Rheumatology, Balneology and Rehabilitation

Influence of the organic matrix of mineralized tissues on their dynamic mechanical properties assessed by scanning acoustic microscopy

Blouin S, Puchegger S, Klaushofer K, Roschger P, Fratzl P

The mineralization kinetics of endocortical bone is altered in Sost knockout mice

A. Roschger, N. Fratzl-Zelman, B.M. Misof, Ina Kramer, K. Klaushofer, P. Roschger, M. Kneissel

Changes in bone matrix mineralization after Growth Hormone treatment in children with chronic kidney disease treated by dialysis: A paired biopsy study

N. Fratzl-Zelman, K. Nawrot-Wawrzyniak, B.M: Misof, M. Pańczyk-Tomaszewska, H. Ziólkowska, P. Roschger, Klaus Klaushofer

Altered bone material properties in HLA-B27 rats, an animal model for arthritis, ankylosing spondylitis, and gastrointestinal inflammation

S. Gamsjaeger, E. P. Paschalis, R. Zoehrer, K. Klaushofer, D. N. Tatakis

The central role of the histone demethylase JHDM1D in the regulation of tumor associated genes in bone tumor related cells

Roman Thaler, Silvia Spitzer, Florian Haider, Klaus Klaushofer, Franz Varga

Intravenous treatment with ibandronate normalizes bone matrix mineralization and reduces cortical porosity after two years in male osteoporosis: a paired biopsy study

Barbara M Misof, Janina M Patsch, Paul Roschger, Christian Muschitz, Sonja Gamsjaeger, Eleftherios P Paschalis, Eva Prokop, Klaus Klaushofer, Peter Pietschmann, Heinrich Resch

MODERATED POSTER SESSION



LBI Clinical Forensic Imaging

Moderator: Soheyl Bahrami, LBI Experimental and Clinical Traumatology

Age Estimation using Magnetic Resonance Spectroscopy of Human Lumbar Vertebrae

Bernhard Neumayer, Clemens Kauderer, Thomas Widek, Chris Boesch, Eva Scheurer

MRI imaging of the neck of living victims of strangulation

Isabella Klasinc, Kathrin Ogris, Sonja Pivec, Thomas Ehammer, Gerlinde Komatz, Thomas Widek, Kathrin Yen, and Eva Scheurer

Integrated Computer-assisted Forensic Case Analysis and Preparation based on 3D Imaging Modalities

Alexander Bornik, Martin Urschler, Johannes Höller, Eva Scheurer

LBI Health Promotion Research

Moderator: Julia Mayer, LBI Health Technology Assessment

The Mental Health in Austrian Teenagers (MHAT) - Study: design and first results from a pilot-study

Michael Zeiler, Julia Phillip, Karin Waldherr, Gudrun Wagner, Martina Nitsch, Andreas Karwautz and Wolfgang Dür

Settings Comparative Study: Implementing Health Promotion in Schools, Hospitals, and Long-term Care Facilities

Wolfgang Dür, Enrica Denk, Benjamin Marent, Fran Osrecki, Hermann Schmied, and Christina Wieczorek

Reconstructing the process of health promotion implementation in schools: a case-study in Austria

Lisa Gugglberger, Friedrich Teutsch, Michaela Adamowitsch, Wolfgang Dür

Theorizing Participation in Health Promotion

Benjamin Marent, Rudolf Forster

LBI Health Technology Assessment

Moderator: Rahel Kahlert, LBI Health Promotion Research

Health visiting in the context of parent-child preventive health care programmes

Roman Winkler; Piso Brigitte; Judit Erdos; Bernd Wimmer

Major health threats for pregnant women and their children in the 21st century

Brigitte Piso, Marisa Warmuth

Sociomedical parent-child screenings: A survey and comparison among 9 European countries

Roman Winkler

Round II: 17:30 – 18:30

LB Cluster Cardiovascular Research

Moderator: Egbert Bisping, LBI Translational Heart Failure Research

Interleukin-33 induces urokinase in human endothelial cells – possible impact on angiogenesis

Stefan Stojkovic, Christoph Kaun, Magdalena Heinz, Konstantin A. Krychtiuk, Christof Lemberger, Rainer de Martin, Peter Petzelbauer, Igor Huk, Kurt Huber, Johann Wojta, Svitlana Demyanets

Electrospinning straight and aligned nanofibres with adjustable orientations by alternating deflection of the jet

C. Grasl, M. Arras, M. Stoiber, H. Bergmeister, H. Schima

Lack of Tenascin-C improves TIMP-3/MMP-9 ratio after myocardial infarction

David Santer, Karola Trescher, Felix Nagel, Christoph Kaun, Martin Krssak, Bruno K. Podesser

Tensile measurements on very small blood vessels and vascular grafts

M. Stoiber, C. Grasl, B. Messner, D. Bernhard, V. Gschlad, H. Schima

LBI COPD and Pneumological Epidemiology

Moderator: Andrea Olschewski, LBI Lung Vascular Research

Endobronchial valve therapy improves BODE index in patients with advanced emphysema

Valipour A, Herth F, Criner J, Ernst A, for the VENT-study group

Prevalence of sleep-disordered breathing in Austrian patients with stable chronic heart failure

Sherwin Asadi, Maria Ruis, MD, Sandra Radakovic, Ivana Mikulic, Otto Burghuber, MD and Arschang Valipour, MD

Long-term non-invasive ventilation in COPD after acute-on-chronic respiratory failure

Funk GC, Breyer MK, Burghuber OC, Kink E, Kirchheiner K, Kohansal R, Schmidt I, Hartl S

Target lobar volume reduction and COPD outcome measures after endobronchial one-way valve therapy

Valipour A, Herth FJF, Burghuber OC, Criner G, Vergnon J-M, Goldin J, Sciruba F, Ernst A, for the VENT-study group

MODERATED POSTER SESSION



LBI Lung Vascular Research

Moderator: LBI COPD and Pneumological Epidemiology

Meprin- β , novel mediator in vascular remodeling

Valentina Biasin, Leigh M. Marsh, Bakytbek Egemnazarov, Jochen Wilhelm, Bahil Ghanim, Walter Klepetko, Horst Olschewski, Robert Eferl, Andrea Olschewski, Grazyna Kwapiszewska

Role of p22phox dependent NADPH-oxidase in hypoxia-induced pulmonary vasoconstriction and pulmonary hypertension.

Nagaraj Chandran, Christoph Tabeling, Leigh Marsh, Zoltán Bálint, Martin Witzernath, Horst Olschewski, Andrea Olschewski

Development of inhalable liposomal iloprost for the treatment of pulmonary hypertension

Pritesh P. Jain, Regina Leber, Bernhard Lehofer, Florian Bloder, Chandran Nagaraj, Bakytbek Egemnazarov, Horst Olschewski, Andrea Olschewski, Ruth Prassl, Leigh M. Marsh

Employing lineage tracing to decipher cell type specific involvement in vascular remodeling

Slaven Crnkovic, Leigh M. Marsh, Pritesh Jain, Daniel Metzger, Pierre Chambon, Stefan Offermanns, Robert Voswinckel, Andrea Olschewski, Grazyna Kwapiszewska

LBI Translational Heart Failure Research

Moderator: Bruno K. Podesser, LB Cluster Cardiovascular Research

Cellular contractile dysfunction in a rat model with compensated renal failure and diastolic dysfunction

U. Primessnig, S. Pfeiffer, B. Pieske, F. R. Heinzel

Mechanical Stretch Induces NFAT Nuclear Translocation in HL-1 Atrial Cardiomyocytes

Shaymaa, Bahnassy, Michael, Poteser, Hannes, Schleifer, Klaus, Groschner

Slower removal of cytosolic Ca²⁺ during relaxation in cardiomyocytes from rats with compensated renal failure and heart failure with preserved ejection fraction

U. Primessnig, A. Hoell, B. Pieske, F. R. Heinzel

Novel echocardiographic parameters during diastolic stress-test improve detection of impaired systolic and diastolic function in Heart Failure with Preserved Ejection Fraction

E. Belyavskiy, E. Kraigher-Krainer, M. Url-Michitsch, N. Verheyen, A. Schmidt, B. Pieske

LB Cluster Oncology

Moderator: Lukas Kenner, LBI Cancer Research

Effects of the Aurora Kinase Inhibitor AS703569 on growth and viability of neoplastic mast cells in advanced mastocytosis

Barbara Peter, Harald Herrmann, Karoline V. Gleixner, Katharina Blatt, Emir Hadzijusufovic, Michael Willmann, Peter Valent

Effects of PKC412 and its metabolites CGP52421 and CGP62221, on IgE-mediated histamine release and proliferation in neoplastic mast cells

Barbara Peter, Georg Winter, Katharina Blatt, Uwe Rix, Keiryn L. Bennett, Gabriele Stefanzi, Emir Hadzijusufovic, Giulio Superti-Furga, Peter Valent

Expression of activated STAT5 in the putative stem cell fraction of JAK2 V617F-transformed myeloproliferative neoplasms

Emir Hadzijusufovic, Alexandra Keller, Florian Schur, Sabine Cerny-Reiterer, Irina Sadovnik, Emmanuel Pecnard, Fabrice Gouilleux, Richard Moriggl, Peter Valent

Demethylating Drugs Promote Expression of FAS and other Regulators of Apoptosis in Myelodysplastic Syndromes (MDS) and Acute Myeloid Leukemia (AML)

Heidrun Karlic, Franz Varga, Harald Herrmann, Katharina Blatt, Wolfgang R. Sperr, Peter Valent, Michael Pfeilstöcker

Identification of a putative Neoplastic Stem Cell in Mast Cell Leukemia'

Gregor Eisenwort, Barbara Peter, Katharina Blatt, Sabine Cerny-Reiterer, Gregor Hoermann, Irina Sadovnik, Martin Bilban, Thomas Rüllicke, Michael Willmann, Juliana Schwaab, Andreas Reiter, Wolfgang R. Sperr, Christine Mannhalter, Peter Valent

Defining the Phenotype and Target Expression Profiles of Leukemic Stem Cells in Ph+ and Ph- Acute Lymphoblastic Leukemia (ALL)

Sabine Cerny-Reiterer, Katharina Blatt, Harald Herrmann, Gregor Eisenwort, Susanne Herndlhofer, Heinz Sill, Werner Rabitsch, Christine Mannhalter, Alexander Hauswirth, Wolfgang R. Sperr, Ulrich Jäger, Peter Valent

MODERATED POSTER SESSION

LB Cluster Translational Oncology

Moderator: Thomas Grunt, LB Cluster Oncology

Blood based biomarker for detection of breast cancer

Agnes Reiner, Anna Bachmayr-Heyda, Nina Pecha, Sonia Zaafrani, Christian Singer, Florian Fitzal, Michael Gnant, Marianne Koch, Christian Sebesta, Stefan Kriwanek, Klaus Geissler, Peter Borossay, Paul Speiser, Dietmar Pils, Robert Zeillinger

Effects of chemotherapeutics on expression of cellular pH regulators in small cell lung cancer (SCLC) cell lines

Klameth, L., Svoboda, M., Thalhammer, T., Olszewski, U., Hamilton, G

The ALPINE technique: Molecular detection of ovarian cancer – A proof of concept study

E. Maritschnegg, P. Speiser, E. Schuster, M. Novy, D. Cacsire Castillo-Tong, R. Horvat, R. Zeillinger

Peritoneal Cavity: The Achilles' heel for Ovarian Cancer Characterization of Tumor Cells in the Peritoneum

Katharina Auer, Anna Bachmayr-Heyda, Stefanie Aust, Agnes Reiner, Robert Zeillinger, Dietmar Pils

LBI Cancer Research

Moderator: Christian Dittrich, LB Cluster Translational Oncology

Loss of IL-6 or Stat3 drives advanced prostate cancer by promoting p53 inactivation

Jan Pencik, Michaela Schleder, Markus Mair, Monica Musteanu, Richard Kennedy, Stephen Walker, Stephan Rose-John, Valeria Poli, Robert Eferl, Melanie Hassler, Merima Herac, Peter Mazal, Andrea Haitel, Martin Susani, Richard Moriggl, Zoran Culig, Lukas Kenner

The AKT Multihit mouse model to study oncogenic cooperativity

Patricia Stiedl, Leander Blaas, Monika Musteanu, Beatrice Grabner, Zsuzsanna Horvath, Robert Eferl, Emilio Casanova

Hyperactive Stat5 in the hematopoietic system for cancer modelling

Barbara Maurer, Harini Nivarthi, Maximilian Hofbauer, Susanne Winkler, Boris Kovacic, Andrea Hölbl-Kovacic, Michaela Schleder, Lukas Kenner, Doris Chen, Thomas Kolbe, Thomas Rüllicke, Mathias Müller, Robert Kralovics, Veronika Sexl, Richard Moriggl

BAC-based Expression System Technology for mammalian cells

Zboray K., Bogner E., Bauer A., Kunert R., Casanova E.

Consequences of hepatic JAK2 deficiency for liver homeostasis in growth-hormone transgenic mice

Madeleine Themanns, Katrin Friedbichler, Kay-Uwe Wagner, Sonja M. Kessler, and Richard Moriggl

EWS/FLI-1 blocks differentiation of mesenchymal progenitor cells In Vivo

Tahereh Javaheri, Barbara Sax, Marc Wiedner, Harini Nivarthi, Eleni Tomazou, Mario Mikula, Suzanne Baker, Christine Hartmann, Heinrich Kovar and Richard Moriggl

IMPRESSUM

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