15th YSA PhD Symposium

13th–14th June 2019
Medical University of Vienna
Program and General Information

www.meduniwien.ac.at/ysa
Dear Colleagues,

Welcome at the Medical University of Vienna to the 15th Young Scientist Association (YSA) PhD Symposium.

In 2019, our university was rated by US News to be the world’s 56 best university in the category “Medicine”. This placement emphasizes, among other factors, the high level of training and research activity in our PhD-program. With its annual PhD Symposium the YSA provides a great platform for scientific interaction at the MedUni Vienna. This annual event, one of the biggest at the Medical University of Vienna, offers students the opportunity to present their study results to a wider audience. Accordingly, the number of international participants is growing at the YSA PhD Symposium every year.

The growing number of scientific abstracts reflects the growing importance and popularity of this Symposium and also reflects the exemplary and dedicated efforts of the YSA. I wish the event every success, thank the organizers and participants for their great commitment and the compilation of the program with outstanding international speakers and wish all participants an exciting and inspiring Symposium.

Markus Müller
Rector of the Medical University of Vienna

Stefan Böhm
Director of the Doctoral School at the Medical University of Vienna

It is my pleasure and privilege to be able to welcome all of you at the 15th PhD Symposium at the Medical University of Vienna. This year’s meeting will extend the series of memorable PhD-Symposia organized by the Young Scientist Association (YSA) of our University. In its 15th year, the PhD Symposium maintains the high standards of previous meetings and presents approximately 300 research abstracts. We are particularly proud to have keynote speakers from Europe and the Americas and abstracts from academic institutions other than the Medical University of Vienna.

One aim of the PhD Symposium is to provide an institutional platform for annual progress reports that have to be delivered by each doctoral student. The progress of the thesis project is to be presented to the thesis committees (consisting of at least three persons) which accompany and guide each doctoral fellow. In the framework of the PhD Symposium, our doctoral candidates will reach a much wider audience than just the members of their thesis committees and can expect to receive feedback on their research not only from experienced and leading scientists at our University, but also from a large number of fellow students. Hopefully, this will help our doctoral candidates to further increase the impact of their thesis projects. In addition, the Symposium offers an opportunity to meet doctoral students from other thematic programs, to learn about their work, and to discuss various aspects of a doctoral student’s daily life with people having an unrelated scientific background.

I would like to thank all authors for their participation and contribution to the high level of scientific material that is going to be presented within the next two days. I also wish to extend special thanks to the YSA board for organizing this Symposium, to the keynote speakers for sharing their expertise and to all sponsoring companies for their support.

I hope all of you will enjoy the two days of our PhD Symposium from both, a scientific and a social point of view.

Stefan Böhm
Director of the Doctoral School at the Medical University of Vienna
Welcome to the 15th YSA PhD Symposium

Dear Participants,

Welcome to the 15th YSA PhD Symposium at the Medical University of Vienna. Our university is dedicated to fostering a research community that promotes the development of all research staff and in particular the next generation of researchers. We consider our PhD students ‘Early Career Researchers’ who, through creation of new knowledge, serve as an important pillar not only for research at our university, but for the academic community as a whole. Our outstanding PhD programs are driven by scientific excellence and educating the next generation of scientists.

„Most people say that it is the intellect which makes a great scientist. They are wrong: it is character.” (Albert Einstein)

Our aim is to accompany our PhD students on their way to becoming creative, critical and autonomous intellectual thinkers. The academic journey, among many other things, involves raising one’s professional profile, developing key skills, and creating strategic alliances. This PhD Symposium series, which has been a flagship event of the MedUni Vienna’s Young Student Association, provides a showcase for the achievements of our young research talents.

I would like to thank the YSA board members for organising this event and putting together an exciting programme. Once more they proved their outstanding organisational talent. Special thanks go to all guest speakers for sharing their knowledge and most recent insights with us here at MedUni Vienna.

I wish all of you a fruitful and inspiring meeting and encourage you to consider these two days as a chance to advance your knowledge, wherever you are on your academic journey.

Michaela Fritz
Vice Rector for Research and Innovation

Welcome to the 15th YSA PhD Symposium at the Medical University of Vienna.

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Michaela Fritz
Vice Rector for Research and Innovation

Dear PhD Students,

„Research is to see what everybody has seen and think what nobody has thought”, „Discovery consists of looking at the same thing as everyone else and thinking something different.” Albert Szent-Györgyi
(Hungarian physiologist, Nobel Prize in Physiology or Medicine in 1937)

There are a several important qualifications you will have gained after finishing the doctoral program at the Medical University of Vienna. Among them there are three abilities you should have developed then and which are most meaningful for future research and societal impact.

The ability to critically analyse, to evaluate and synthesize new and complex ideas. The ability to communicate with the professional environment, the scientific community and the society in general about basic questions of science and scientific politics, as well as the ability to promote technological, social and cultural progress within an academic and professional context.

Being a PhD student also means having different roles: the role of a learner, a researcher and a next generation academic teacher.

Teaching means an essential part of a scientist’s work. It is Nobel laureate Eric Kandel, who says, „I’ve gotten an enormous amount out of teaching because, first of all, I like interacting with young people. I mean, when you run a lab you’re teaching all the time and it’s only when you really try to explain something to somebody else that you find out whether you’re in a standard or not and I think it’s essential for people to do that” (Interview 2008).

An important part of teaching in academic life includes mentorship. Mentoring programs at universities are essential, like the YSA mentoring program and all other mentoring programs at the Medical University.

The YSA and the annual YSA Symposium supports you to gain more and more abilities and skills as early stage researchers and early stage teachers. It provides an excellent platform to meet and network, and to share research results and (complex) ideas.

Many thanks for your great efforts in organizing the excellent annual YSA Symposium at the Medical University of Vienna.

Michaela Fritz
Vice Rector for Research and Innovation

Anita Rieder
Vice-Rector for Education
Dear Colleagues and Friends,

On behalf of the Young Scientist Association (YSA), it is our pleasure and privilege to welcome you all to the 15th YSA PhD Symposium at the Medical University of Vienna. Starting with the first Symposium in 2005 it has not only become a tradition of the Medical University of Vienna, but over the years it has also become one of Austria’s renowned academic events and the number of abstracts submitted each year underlines that. We are happy to manage to create this Symposium bringing together young scientists from different thematic fields. Together we will share best practices, learn from our experience and develop new strategies and collaborations.

Every Symposium needs helping hands and we therefore cordially thank everyone from the YSA board and the YSA co-workers of 2019.

The success of the YSA Symposium is based on the effort, talent, and energy of many people. We want to express our gratitude to Rector Markus Müller for backing the YSA and for providing us with the infrastructure for making this event possible.

Furthermore, we want to thank Vice-Rectors Anita Riedler and Michaela Fritz for their ideas and Curriculum Director Stefan Böhm for his perpetual and unremitting support towards the YSA.

We thank all program coordinators, supervisors and professors for supporting us and guiding us through this very exciting time of our life. Thank you also for abstract review and volunteering as chairs for poster and oral sessions.

Of course, a Symposium would not be complete without keynote speakers and we are happy that we managed to invite excellent speakers from different countries and scientific backgrounds. Thank you very much for investing your time and your encouragement to make this Symposium a unique experience.

Gratitude goes to the Corporate Communication Department for full support and to our sponsors, without whom such an event would not be possible.

Last but not least, we thank all participants of this Symposium for submitting their work and for taking part in this event.

We look forward to a Symposium bringing together scientists from all over the world and we hope that you will enjoy it as much as we do!

Valentina Stolz
YSA President

Alexandra Gürlich
YSA Vice-President

Doctoral Programs of the Medical University of Vienna

Thematic Programs within the PhD Studies

- Molecular Signal Transduction
- Molecular Mechanisms of Cell Biology
- Medical Physics
- Neuroscience
- Malignant Diseases
- Endocrinology and Metabolism
- Vascular Biology
- Immunology
- Medical Informatics, Biostatistics & Complex Systems
- Medical Imaging
- Inflammation and Immunity (IAI)
- Cell Communication in Health and Disease (CCHD)
- Signaling Mechanisms in Cellular Homeostasis
- RNA-Biology
- Molecular Drug Targets (MolTag)
- Molecular, Cellular and Clinical Allergology
- Integrative Structural Biology
- Molecular & Cellular Control of Tissue Homeostasis in Health & Disease (TissueHome)

Thematic Programs within the Doctor of Applied Medical Science

- Thematic programs
- Clinical Endocrinology, Metabolism and Nutrition
- Biomedical Engineering
- Clinical Neurosciences (CLINS)
- PoET - Program for Organ failure-, replacement and Transplantation
- Clinical Experimental Oncology
- Preclinical and Clinical Research for Drug Development
- Regeneration of Bones and Joints
- Cardiovascular and Pulmonary Disease
- Mental Health and Behavioural Medicine Public Health
- Public Health

Alexandra Gürlich
Vice-President

Valentina Stolz
YSA President
YSA – Young Scientist Association
Medical University of Vienna

Organisation of the 15th YSA PhD Symposium 2019

Background

Starting with the first Symposium in 2005 we have not only become a tradition of the Medical University of Vienna, but over the years we have also become a renowned event in the academic community of Austria.

The YSA Symposium makes it possible for all PhD students to enhance their knowledge about new methods and technologies available, exchange data and information with other students and improve their presentation skills. Additionally, participants can discuss in a multidisciplinary scientific environment and get valuable suggestions and critical input from experts in different fields.

Over 2000 scientific projects have been presented at the YSA PhD Symposium in the last years, contributing to the development of each young scientist’s career.

Mission Statement and Activities

• Improving networking between young scientists of the Medical University of Vienna and beyond
• Organizing scientific meetings such as the PhD Symposium, workshops and lectures of international speakers with an outstanding expertise in their field
• Establishing a link between postgraduate students and the board of the Medical University of Vienna

Contact

YSA – Young Scientist Association of the Medical University of Vienna
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Maria Storl
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Workshop Coordinator
Communication Officer
Ökoevent/ Sustainability

Hunor Kertész
Salman Abbas Zadeh

Secretary General
Vice Secretary General
VSA Symposium Coordination

Treasurer
IT & Communication
We would like to invite all participants from the Symposium to join our established social event, thereby providing a further platform taking place in the nice setting of the Van Swieten Saal on June 15th 2019 starting from 7pm.

**Award Ceremony, DJ, all you can eat/drink and much more. Join the Science | Party!**

**Registration**
Registration will take place at the registration desk, which is located in the admission area at Level 7 of the Lecture Hall Centre (AKH-Hörsaalzentrum).

**Registration Fee**
Admission to all scientific sessions is free.

**Name Badges**
Delegates are required to wear their name badges throughout the congress. In order to minimize waste production during the congress we encourage participants to bring their own lanyards.

**Language**
Official congress language is English.

**Congress Venue**
Lecture Hall 3, Floor 7 at the General Hospital of Vienna (AKH Hörsaalzentrum)

**W-LAN**
Wifi is provided in the Lecture Hall Centre

**MedUni Wien Guest-ID:** g51aguel
**Passwort:** tACAx59A

For detailed information how to get there please visit:
https://www.google.at/maps/, www.wienerlinien.at or www.vor.at
Science | Art competition concept
Exploring the Interface(s) of Science and Art

Our research is the offspring of hard work, perseverance and dedication. It motivates, inspires and fascinates us. So let us recognize and capture these moments, illustrations, visualizations and even unsuccessful experiments can possess a beauty that makes one stop for a moment and smile. A simple artistic piece can also provide a fantastic tool to communicate science across different fields as well as to the public, and makes it easier to raise awareness, stimulate ideas and foster innovation.

Since 2015, the YSA together with the „Creative and Critical Journal Club“, has invited young scientists to participate in a competitive science & art exhibition on the occasion of the YSA PhD Symposium. Since then, many contributions have been able to show us the beauty of science and for this, we would like to thank all the contributors so far! We hope the contest will take place for many more years and we are always encouraging you to submit your piece of art.

Awards
A jury consisting of distinguished professors of science, art and social sciences is assigned to evaluate the submissions according to unified criteria, to select winners of each category.

The winners of each category will receive €100,-
The People’s Choice Winner will receive €350,-

A PRE-ASSIGNED JURY SELECTS THE WINNERS, ACCORDING TO UNIFIED CRITERIA:

Bernd Kräftner, Expert in Digital Art, Art & Science, Senior Lecturer at University of Applied Art, Vienna, Austria.
Christine Druml, UNESCO Chair on Bioethics, Director of the Josephinum, Director of Ethics, Collections and History of Medicine, Medical University of Vienna, Austria.
Johannes Angerer, Spokesperson and Head of Public Relations, Sponsorship and Fundraising, Medical University of Vienna, Austria.
Klaus Spiess, Expert in Science Art, Medical Education Research, Medical University of Vienna, Austria.
Thomas Feuerstein, Media and Concept Artist, Lecturer at Univ. of Applied Art, Vienna, Austria.
Isabella Ellinger, Organiser of the Creative and Critical Journal Club, Institute of Pathophysiology and Allergy, Medical University of Vienna, Austria.
Valentina Stolz, President of the YSA, PhD Student at the Institute of Immunology, Medical University of Vienna, Austria.
Alexandra Gülich, Vice-President of the YSA, PhD Student at the Institute of Immunology, Medical University of Vienna, Austria.
Laura Geid, Science Art Coordinator, PhD Student at the Institute of Immunology, Medical University of Vienna, Austria.

Submissions
This competition is inclusive to PhD students from all fields of research containing (but not restricted to) categories such as:

• Live visualization: This category includes pictures acquired through any tissue-culturing techniques, histology sections, microscopy and any other method of scientific visualization.

• Capture a moment: Capture a moment of the scientific process: An experimental performance, or a photograph representing the hardships and joys of a scientist’s life.

• Illustrations and digital simulations: Includes all and any digitally produced piece, from network simulations to product design as well as descriptive illustrations.

Information for participants
We are doing our best to make your arrival at the venue as easy as possible. Please choose an environmental-friendly mode of transport to get to and from the venue. If this should not be possible, or if you have to arrive by plane, please consider to compensate your CO₂ emissions using a reliable and legitimate CO₂ compensation system. We recommend the BOKU CO₂ Compensation System (https://boku.ac.at/wissenschaftliche-initiativen/zukunftswandel-nachhaltigkeit/themen/nachhaltigkeit/boku-co2-kompensationsystem/)

We have set ourselves the ambitious goal of reducing as much waste as possible. Therefore, we only offer drinks from reusable multi-trip bottles and food from proper dishes as well as milk and sugar without single-portion packaging. Please do hold this in respect also outside the event, and help create a world without useless waste!

• Please pay attention to separate the waste, which cannot be avoided, in the foreseen containers (PET, paper, metal etc.), which will be provided during the event.

• Please only take the offered information material that you really need.

• We kindly ask you to return your name badges after the event at the registration desk.

• If you have a badge/lanyard at home, please bring it to the Symposium and you will get a new name tag for it. Thank you for helping us saving resources!

The 15th YSA Symposium aims at acquiring the certification as an Ökoevent (www.oekoevent.at). Therefore, this year’s YSA Symposium is carried out under the highest environmental standards, following the Ökoevent criteria of the city council Vienna.

We strive to organize the 15th YSA Symposium as environmentally friendly as possible. This includes a delicious, climate-friendly buffet by Rita bringt’s (www.ritabringts.at) as well as printing the posters and abstract books on recycled paper, creating new guidelines for our sponsors and abstaining from distributing untargeted promotion material and give-aways. Moreover, also the communication of our efforts and our joint endeavour to make a statement for urgent climate action are key achievements, which we hope will be sustained also in future meetings, conferences and symposia organized at the Medical University of Vienna.

This year’s special topics:

Climate Change and Health
The effects of climate change on health are already being felt today and can be classified as an increasing threat to public health in Austria. The „APCC Special Report on Health, Demography and Climate Change“ (https://sr18.ccca.ac.at/) identifies the most severe health impacts (e.g. heat, ecosystem changes, pollen allergies, vector-borne infectious diseases) and options for action to mitigate the health effects of climate change and reduce vulnerability (with regard to an aging population).

How can we yield synergies between health benefits and mitigating climate change in various areas of life (e.g. nutrition, housing, mobility, health care)?

Find out more about the report findings at the info booth of Climate Change Centre Austria (www.ccca.ac.at) at the Symposium!

Sustainable Development and Health
The 17 UN Sustainable Development Goals (SDGs) are the blueprint to achieve a better and more sustainable future for all (https://sustainabledevelopment.un.org/sdg). They address the global challenges we face, including those related to poverty, climate, peace, justice and health. The project „UnInNEZ – Universitäten und Nachhaltige Entwicklungsziele“ (www.uninetz.at) connects 16 Austrian universities in their ambition to accomplish the goals in Austria. Together, they aim at identifying measures of implementation and synergies between the goals. Find out more about the project at the UnInNEZ info booth.

Feedback to the Ökoevent criteria of the 15th YSA Symposium
What do you think about the new, sustainable orientation of the YSA Symposium? How did you like the food and drinks? How well did the waste reduction efforts work?

WE ARE LOOKING FORWARD TO YOUR FEEDBACK!
Please provide your opinions and questions concerning Ökoevent to the contact person for sustainability issues:

Liisa Andersen: liisa.andersen@meduniwien.ac.at
15th YSA PhD Symposium

Austrian Special Report
Health, Demography and Climate Change Summary for Policymakers

The state of knowledge in brief

The effects of climate change on health are already being felt today and can be classified as an increasing threat to health in Austria. The most severe and far-reaching effects to be expected are health impacts due to heat. Also changes in ecosystems which influence the distribution, frequency, types and severity of pollen allergies and vector-borne infectious diseases and alter the patterns of precipitation and storms will threaten health. Furthermore, changing demographic structure and composition including population aging and migration can increase the number of people exposed to health risks. The health impacts of climate change are not distributed evenly across population sub-groups as older people, for instance, are physiologically more susceptible to extreme heat whilst migrants with lower socioeconomic resources dispose of a reduced adaptive capacity.

However, there are many options for action to mitigate the health effects of climate change and reduce vulnerability. These range from urban planning measures in the case of increasing heat to better management of highly allergenic plants as well as an integrated event documentation of extreme weather events for more targeted measures.

Importantly, successful climate change mitigation efforts will also lead to substantial health benefits, which should be emphasised increasingly when promoting climate actions. In terms of nutrition, reducing excessive consumption of meat can both improve health and reduce greenhouse gas (GHG) emissions. With respect to mobility, a shift towards more active mobility such as walking and cycling and public transport, especially in cities, reduces health-related pollutants and noise pollution, encourages healthy movement and reduces GHG emissions. Reduction of climate-relevant air traffic also diminishes adverse health effects. With regard to housing, a large proportion of single-family and duplex houses in newly developed residential areas is to be challenged as it uses a lot of space, materials and energy. Alternative housing modes such as green and inclusive apartment buildings require funding and promotion by health-enhancing and climate-friendly urban planning. Moreover, thermal renovation of existing buildings reduces heat stress during the summer half-year.

On the other hand, health-care activities may also contribute to climate change. Therefore, reducing the carbon footprint of the healthcare sector is necessary. Pharmaceutical products are responsible for a major share of the carbon footprint. Avoiding unnecessary diagnostics and therapies, for instance, can reduce GHG emissions, risks for patients and health-related costs.

To initiate a transformation in the intersection of climate and health requires cross-policy cooperation of climate and health policy and is an appealing opportunity to simultaneously implement Austria’s Health Targets, the Paris Climate Agreement and the United Nations Sustainable Development Goals (SDGs). With transformation research and research-led teaching, science can accelerate transformative development paths and foster new interdisciplinary solutions to problems.

Please find the full report on the CLIMATE CHANGE CENTRE AUSTRIA’S (CCCA)
https://sr18.ccca.ac.at/

For more information, please visit the “CLIMATE CHANGE AND HEALTH” Info Booth at the Symposium!
<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday, 13th June 2019</th>
<th>Friday, 14th June 2019</th>
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<tbody>
<tr>
<td>08.30–09.00</td>
<td>Registration and Poster Mounting</td>
<td>Registration and Poster Mounting</td>
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| 09.00–09.30  | Opening of the 15th YSA-PhD Symposium                                                      | Keynote Lecture 3  ABASS ALAVI  
|              | Markus Müller, Stefan Bohm, Valentina Stolz                                               | ABASS ALAVI  
|              | UNPARALLELED AND REVOLUTIONARY IMPACT OF PET IMAGING ON MEDICAL RESEARCH AND DAY-TO-DAY PRACTICE OF MEDICINE |
| 09.30–10.30  | Keynote Lecture 1  THOMAS EIWEGGER  
|              | CHALLENGES IN THE DIAGNOSIS AND TREATMENT OF FOOD ALLERGY                                | Oral Session 4  MEDICAL PHYSICS  
|              |                                                                                         | S 29                                                      |
| 10.30–11.00  | Coffee Break                                                                             | Coffee Break                                                                              |
| 10.45–11.20  | Oral Session 1  IMMUNOLOGY  
|              | S 28                                                                                     | Keynote Lecture 4  CLARE HEAVISIDE  
|              |                                                                                         | CLIMATE CHANGE AND HEALTH  
| 11.00–11.30  | Coffee Break                                                                             | Coffee Break                                                                              |
| 11.00–12.00  | Keynote Lecture 4  CLARE HEAVISIDE  
|              | UNDERSTANDING ACTIN REGULATORS IN IMMUNE CELLS                                            | Oral Session 5  PUBLIC HEALTH AND NEUROSCIENCE  
|              |                                                                                         | S 29                                                      |
| 12.00–12.15  | Coffee Break                                                                             | Coffee Break                                                                              |
| 12.15–12.55  | Short talk  IMPORTANT CONSIDERATIONS BEFORE YOU PUBLISH                                  | Publication Award  ANETE ROMANAUSKA  
|              |                                                                                         | THE INNER NUCLEAR MEMBRANE IS A METABOLICALLY ACTIVE TERRITORY THAT GENERATES NUCLEAR LIPID DROPLETS  
| 12.55–13.45  | Lunch                                                                                    | Lunch                                                                                    |
| 13.00–13.20  | Short talk  „GUIDED PANEL SOLUTION“ – MULTICOLOUR PANEL DESIGN BD BIOSCIENCE             | Short talk  „BIOLEGEND COMMITMENT TO MULTICOLOR FLOW CYTOMETRY“  
|              | by Josefa Pichler (Application Specialist BD Biosciences)                                 | by Michael Manhart from Biozym Biotech                                                    |
| 13.45–14.45  | Oral Session 2  MALIGNANT DISEASES  
|              | S 28                                                                                     | Keynote Lecture 5  DAVID PETRIK  
|              |                                                                                         | ADULT NEUROGENESIS: FROM HIPPOCAMPUS TO HYPOTHALAMUS  
| 14.00–15.00  | Guided Poster Session I  
|              | S 30–40                                                                                  | Guided Poster Session II  
|              |                                                                                         | S 41–51                                                   |
| 15.00–15.30  | Coffee Break                                                                             | Coffee Break                                                                              |
| 15.30–16.45  | Guided Poster Session II  
|              | S 41–51                                                                                  | Oral session 6  MOLECULAR MECHANISMS OF CELL BIOLOGY  
|              |                                                                                         | S 29                                                      |
| 16.45–17.45  | Guided Poster Session II  
|              | S 41–51                                                                                  | Closing Ceremony  
| 17.45–18.00  | Guided Poster Session II  
|              | S 41–51                                                                                  |                                                                                         |
| 17.30–18.00  | Oral Session 3  CELL COMMUNICATION IN HEALTH AND DISEASE                                  | Begin of the Science|Party, Van Swieten Saal  
|              |                                                                                         | S 14                                                      |
| 19.30        | Begin of the Science|Party, Van Swieten Saal  
|              | S 14                                                      | Award ceremony at the Science Party  
| 20.00        | Award ceremony at the Science Party                                                       |                                                                                         |
Scientific Program
15th YSA PhD Symposium 2019
**Keynote Lecture 1**

**Thomas Eiwegger**

University of Toronto

Thomas Eiwegger earned his doctoral degree at the Medical University of Vienna, Austria, where he also completed his paediatric training. He did his post Doc in the Swiss Institute of Asthma and Allergy in the group of Cezmi Akdis from 2008 – 2010 and after returning to the Medical University of Vienna he completed his training in Pediatrics, paediatric allergy and pediatric respiratory medicine. He habilitated in 2012 in Paediatrics. Thereafter he completed the fast track tenure at the Medical University of Vienna and worked as principal investigator, group leader and staff physician at the level of an associate Professor at the Department of Paediatrics and Adolescent medicine.

In summer 2015 he moved to the Hospital for Sick Children in Toronto where he holds a staff position at the Division of Allergy and Immunology and Scientist position at the Research Institute and is faculty member (Assoc. Prof) at the Department of Paediatrics and the Department of Immunology at University of Toronto.

His research focuses on mechanisms of IgE-mediated allergy. In particular he is interested in mechanisms of tolerance development to food allergens, markers thereof and the development of new treatment approaches for food allergy. Moreover, he shows strong interest in the use of biologics in the context of atopic disease and is acting secretary of the biologics working group within the EAACI.

**Thursday, 13th June, 9.30–10.30**

**Challenges in the diagnosis and treatment of food allergy**

Food allergy is the main cause of anaphylaxis in childhood and adolescence but markers of severity or tolerance development are lacking. The prevalence of food allergies has significantly increased over the last decades and has reached a prevalence of 8% in childhood and 5% in the adult population in Europe, Australia or North America. Numbers of individuals reacting to a low threshold of food protein and/or displaying severe, life-threatening to fatal reactions increase. Despite of recent advances in strategies of prevention and treatment there is no FDA or EMA approved treatment for food allergy available and prevention strategies require further implementation. In particular oral immunotherapy (OIT) is an emerging treatment for food allergy which is proven to be efficacious with regards to desensitization but dropout rates (>25%) and side effects of OIT are considerable. Therefore, test systems diagnosing food allergy with high sensitivity and specificity and predict treatment success are demanded to allow an accurate patient selection and reduce the number of mislabeled patients. In this talk I will focus on new diagnostic tools and discuss therapeutic options to overcome current limitations in the treatment of food allergy.

**Keynote Lecture 2**

**Lisa Westerberg**

Karolinska Institutet, Sweden

Lisa Westerberg graduated from Stockholm University with a M.Sc. in Molecular Biology and received her PhD in Cell and Molecular Biology in 2003 from Karolinska Institutet where she studied under Professor Eva Severinson. In 2009 she completed her postdoctoral research at Harvard Medical School in the laboratories of Professors Scott Snapper and Luigi Notarangelo. She joined the faculty at Department of Medicine at Karolinska Institutet, Stockholm in 2009 after receiving an Assistant Professor position appointed by the Swedish Research Council. In 2013, Dr Westerberg joined the faculty at Department of Microbiology Tumor and Cell biology as senior researcher and group leader.

Her laboratory focuses on primary immunodeficiency caused by mutations in the Wiskott-Aldrich syndrome protein (WASP). WASP is uniquely expressed in cells of the immune system and coordinates cell surface signaling to changes in the actin cytoskeleton, thereby regulating cell movement, cell-to-cell communication, and intracellular signaling. The clinical outcome of WASP-associated primary immunodeficiency depends on how the mutations affect WASP expression and activity. Mutations that abolish expression of WASP leads to broad dysfunction of the immune system and patients develop eczema, autoimmunity and tumors. Mutations that induce constitutively-active WASP lead to development of severe neutropenia and recurrent bacterial infections.

**Thursday, 13th June 2019, 16.30–17.30**

**Understanding actin regulators in immune cells**

The actin cytoskeleton is the main cause of anaphylaxis in childhood and adolescence but markers of severity or tolerance development are lacking. The prevalence of food allergies has significantly increased over the last decades and has reached a prevalence of 8% in childhood and 5% in the adult population in Europe, Australia or North America. Numbers of individuals reacting to a low threshold of food protein and/or displaying severe, life-threatening to fatal reactions increase. Despite of recent advances in strategies of prevention and treatment there is no FDA or EMA approved treatment for food allergy available and prevention strategies require further implementation. In particular oral immunotherapy (OIT) is an emerging treatment for food allergy which is proven to be efficacious with regards to desensitization but dropout rates (>25%) and side effects of OIT are considerable. Therefore, test systems diagnosing food allergy with high sensitivity and specificity and predict treatment success are demanded to allow an accurate patient selection and reduce the number of mislabeled patients. In this talk I will focus on new diagnostic tools and discuss therapeutic options to overcome current limitations in the treatment of food allergy.

**Understanding actin regulators in immune cells**

The actin cytoskeleton is essential for life and regulates critical processes such as cell division, cell migration and cell-to-cell communication. The Wiskott-Aldrich syndrome protein (WASP) family induces actin polymerisation from existing actin filaments via the Arp2/3 complex to form a dynamic actin network. Megakaryoblastic Leukaemia 1 (MKL1) regulates G-actin concentration in the cytoplasm and in the nucleus. The importance of correct regulation of the actin cytoskeleton dynamics is revealed in rare and severe primary immunodeficiency diseases with high incidence of tumors and autoimmunity. We are using new animal models and rare patient samples to address how immune cells actin cytoskeleton, thereby regulating cell movement, cell-to-cell communication, and intracellular signaling to changes in the actin cytoskeleton, thereby regulating cell movement, cell-to-cell communication, and intracellular signaling. The clinical outcome of WASP-associated primary immunodeficiency depends on how the mutations affect WASP expression and activity. Mutations that abolish expression of WASP leads to broad dysfunction of the immune system and patients develop eczema, autoimmunity and tumors. Mutations that induce constitutively-active WASP lead to development of severe neutropenia and recurrent bacterial infections.

**Thursday, 13th June 2019, 16.30–17.30**

**Understanding actin regulators in immune cells**

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Keynote Lecture 3
Abass Alavi
University of Pennsylvania

Abass Alavi is a Professor of Radiology and Neurology, Director of Research Education in the Department of Radiology at the University of Pennsylvania. Dr. Alavi is a physician-scientist who is specialized in the field of molecular imaging, most notably in the modality of positron emission tomography (PET). He is among pioneers in adopting modern imaging modalities including SPECT, CT, MRI and PET as powerful imaging modalities to conduct research in medicine. In August 1976, he became the first to perform human PET studies of the brain and whole body using the radiotracer 18-Fluorodeoxyglucose (FDG). Alavi is the recipient of numerous awards and recognitions among which are the highest distinctions in molecular imaging: the Georg Charles de Hevesy Nuclear Pioneer Award and the Cassen Prize of the Society of Nuclear Medicine. These prizes are given to living scientists whose research has led to major advances in basic and clinical applications of novel radiotracers. He is among the most cited and published faculty members at the University of Pennsylvania.

Friday, 14th June 2019, 9.00–10.00

Unparalleled and Revolutionary Impact of PET Imaging on Medical Research and Day-to-Day Practice of Medicine

The discovery of x-ray by Roentgen in 1895 started a revolutionary era in medicine which continued to the 20th century and has accelerated in pace during the past 5 decades. The concept of focused collimation was introduced by Casen and has accelerated in pace during the past 5 decades. The introduction of PET/CT by investigators at the University of Pittsburgh in the late 1990s has further established the power of medical imaging, initially claims were made about the ability of MRI and NMR Spectroscopy to detect disease at the molecular level, but based on experience gained, these modalities remain somewhat limited in the molecular domains. The introduction of PET/CT by investigators at the University of Pennsylvania in 1995 brought about a paradigm shift in medical imaging and resulted in co-registration of structural images provided by CT and molecular images generated by PET for both research and clinical purposes. This invention has further established the power of molecular imaging with PET.

Currently, the main radiotracer being used for PET/CT imaging is FDG, which is employed primarily for the management of patients with a variety of malignancies. However, prospects for clinical applications of PET/CT are enormous with many novel and powerful tracers in the future. The introduction of PET/MRI over the past decade has opened up another domain for molecular imaging and its role is being investigated at this time. It is expected that this imaging modality will play a role in three major disciplines, which include disorders of the brain, cardiovascular system, and musculoskeletal structures.

Therefore, we believe that the future of medical imaging — and molecular imaging in particular—is going to heavily rely upon PET/CT and possibly PET/MRI for optimal management of many diseases and disorders. Arguments about the routine availability of PET and the associated costs may not be relevant, because of the high cost effectiveness of this modality in numerous maladies. Therefore, it is very timely to embrace PET as the future imaging modality of choice in medicine.

Keynote Lecture 4
Clare Heaviside
University of Oxford

Clare Heaviside is an Independent Research Fellow at the Environmental Change Institute at the University of Oxford. Her research interests cover climate change impacts, particularly on health, urban climate and the urban heat island, air pollution and heatwaves. Her research is often multi-disciplinary in nature, with application to the physical and environmental sciences as well as public health and policy.

Clare has an Engineering degree and a master’s degree in Applied Meteorology. Her PhD in Atmospheric and Oceanic Physics was from Imperial College, London. Aside from academia, she has over a decade of work experience in the private and public sectors, most recently at the Health Protection Agency and Public Health England (UK Government Agencies) on climate and air pollution research. Before taking up her position at University of Oxford, Clare was head of Climate Change at Public Health England, coordinating climate change research across the agency, advising the government on the health effects of climate change and providing scientific evidence to feed into national policy.

Her work has been published in journals such as Nature Climate Change, the Lancet Planetary Health, and Environmental Health Perspectives. She contributed to national policy documents such as the National Climate Change Risk Assessment, and National Adaptation Programme for the UK, as well as contributing to international publications such as the IPCC Special Report on Extreme Events.

Friday, 14th June 2019, 11.00–12.00

Climate Change and Health

Climate change is the biggest global challenge we face today. Already, human costs are being realised through the increasing frequency of extreme weather events such as floods, droughts and heatwaves. Changes in temperature will have direct and indirect impacts on health, and broader environmental changes will affect infectious disease risk, air pollution and other exposures. The health impacts of climate change will vary in different parts of the world, and for different populations, depending on exposure and vulnerability.

International actions such as the Paris Agreement and the Sustainable Development Goals recognise the risks to society in future, and acknowledge that we are already committed to a certain level of climate change. Future adaptation measures therefore need careful assessment and implementation if we are able to minimise the potential risks from climate change, at the same time as maximising potential health benefits of a cleaner, greener world.
I am a neuroscientist focusing on the stem cells in the brain. My original training lies in ion channel biophysics and electrophysiology. I conducted my diploma Master’s thesis at the Institute of Experimental Medicine of the Academy of Sciences of Czech Republic in Prague. In the laboratory of Professor Eva Sykova, I investigated the electrophysiological and morphological properties of reactive astrocytes in a model of mechanical brain injury. To deepen my understanding of ion channel biophysics, I enrolled as a PhD student at The University of Texas Health Science Center in San Antonio, USA. In the laboratory of Robert Brenner, I studied the effects of alternative splicing, reverse phosphorylation and accessory subunits on molecular kinetics of calcium activated (BK) channels and their role in action potential waveform and firing in the granule cell neurons in the hippocampus.

During my post-doctoral career, I have focused on adult neural stem cells and adult neurogenesis, the process of generating new neurons in the adult brain. In the laboratory of Professor Amelia Eisch at the University of Texas Southwestern in Dallas, I have led a research in small molecule screening to identify one of the most used drugs to upregulate adult neurogenesis. Also, I have studied the effects of epigenetic (such as Brg1) and genetic (Mef2, Cdk5) factors on the biology of adult neural stem cells. I relocated back to Europe as a Marie Curie Fellow in the laboratory of Professor Magdalena Götz. At the Institute of Stem Cell Research of the Helmholtz Centrum Munich and at Ludwig Maximilian University of Munich, I completed the research arc of my career by showing that adult neural stem cells in the brain are mechano-sensitive thanks to the epithelial sodium channel. Also, I have collaborated on projects that involve so called direct cell reprogramming. As a tenured associate professor of biomedicine and physiology at Cardiff University, I focus on the adult neural stem cells in hypothalamus and the role of metabolism and diet on their stemness and biology.

Friday, 14th June 2019, 
14.00 – 15.00

Adult neurogenesis: from hippocampus to hypothalamus

Adult neurogenesis is a process of generating new neurons from resident neural stem cells. In the adult mammalian brain, this process occurs only in discrete regions called neurogenic niches, where the newborn neurons are critical for learning and memory and for mood control. In this talk, I will discuss genetic and epigenetic factors and pharmacological means that influence stemness and proliferation capacity of the stem cells in the hippocampus and in the walls of the lateral ventricles. I will also present our latest results, which show that the neural stem cells are able to sense mechanical forces, utilizing them as proliferative cues.

During the past year, adult neurogenesis became a highly debated topic yet again thanks to several articles that either confirm or question its presence in human brain. While the neuroscience community strives to resolve the topic of human adult neurogenesis, there is a parallel debate about the extent of adult neurogenesis in the brain. Recent findings suggest that adult neurogenesis also occurs in the hypothalamus, where the stem cells may contribute to the metabolism and feeding feedback mechanisms. I will conclude the talk by discussing the cellular heterogeneity and proliferative potential of the stem cells in the hypothalamus.
Oral Session | Thursday, 13th June 2019

11.00–12.00 Oral Session 1 | Immunology

01 Production of nature-identical Bet v 1 and Ara h 2 using a plant-based transient expression system
Üzülmez Ö., Mayr V., Tscheppe A., Palladino C., Lengger N., Breiteneder H.

02 Hepatocyte-intrinsic Ifnar1 signaling modulates hepatic metabolism and adaptive immunity

03 Cutaneous microbiome dynamics in allogeneic hematopoietic stem cell transplantation
Bayer N., Pandey R., Strobl J., Hammerl L., Riva A., Berry D., Patra V., Stary G.

04 Investigating oncogenic functions of STAT5B in innate(-like) lymphocytes
Klein K., Vitalis-Siepracka A., Maurer B., Prinz D., Leidenfrost N., Prchal-Murphy M., Suske T., Mor cigi R., Sexl V.

13.45–14.45 Oral Session 2 | Malignant Diseases

05 Chromatin mapping and single-cell immune profiling define the temporal dynamics of ibrutinib drug response in chronic lymphocytic leukemia
Rendeiro A.F., Krausgruber T., Fortelny N., Zhao F., Penz T., Farlik M., Schuster L.C., Nemc A., Tasnády S., Reti M., Mátraf Z., Alpar D., Bödör C., Schmidt C., Bock C.

06 Examining the Function of PDGFRB in Anaplastic Large Cell Lymphoma

07 A protective role of myeloid mTORC1 in colitis and colorectal cancer

08 The role of clinical joint inflammation and acute phase response on structural progression of patients with psoriatic arthritis
Borst C., Alasti F., Aletaha D.

16.45–17.45 Oral Session 6 | Molecular Mechanisms of Cell Biology

09 Molecular imaging of the antigen recognition dynamics in CD8+ cytotoxic T-cells

10 Exploring trained immunity in pulmonary infection

Oral Session | Friday, 14th June 2019

10.00–10.30 Oral Session 4 | Medical Physics

011 Flexible size-adaptable multi-turn multi-gap coaxial RF coils (MTMG-CCs) for Magnetic Resonance Imaging (MRI)

012 Comparison of Motion Compensation techniques for cardiac PET imaging
Berger A., Lassen M.L., Beyer T., Grischel M., Cal-Gonzalez J.

12.00–13.00 Oral Session 5 | Public Health and Neuroscience

013 Monitoring evidence on overall survival benefits of anti-cancer drugs approved by the European Medicines Agency between 2009 and 2015
Grössmann N., Robausch M., Rosian K., Wild C., Simon J.

014 Identification of brain areas related to a complex task with [18F]FDG-functional PET in comparison to fMRI and arterial spin labeling

015 Evaluation of [11C]Tariquidar as a PET tracer to measure ABCB1 and ABCG2 transport activity in the liver

016 HRV (Heart Rate Variability) as a non-invasive measurement method for per-formance diagnostics and training control
Scherer M., Martinek J., Mayr W.

16.45–17.45 Oral Session 6 | Molecular Mechanisms of Cell Biology

017 Engineering young extracellular matrix environment for enhanced bone regeneration during aging
Hanebseder D., Levstek T., Redl H., Marlot-Presen E.

018 Multi-scale profiling of lung adaptation after transplantation

019 Fibrocytes and neutrophil extracellular traps at the culprit lesion site in myocardial infarction: a role for monocyte chemotactic protein 1
Horbauer T.M., Orndracek A.S., Mangold A., Scharz T., Seidl V., Lang I.M.

020 In depth analysis of the microenvironmental influence on human blood–brain barrier integrity in cerebral ischemia
Poster Session I  Thursday, 13th June 2019

14.45–16.00 Poster Session I

**Group 1: 1 – 14**

**Inflammation and Immunity**

P1 NK2G2D on mature NK cells is dispensable for the control of murine Abelson-induced leukemia

P2 Effect of Epidermal Growth Factor Receptor inhibition on tumor cell metabolism
Krauß D., Viedma V.M., Blauensteiner B., Mohr T., Sibilia M.

P3 Mechanisms of tumor killing by activated Plasmacytoid Dendritic Cells
Gastaldi T., Santoreno M., Derdak S., Sá Fernandes C., Novoszel P., Sibilia M.

P4 Chromatin Dynamic Immune regulation of anti-tumor functions of plasmacytoid Dendritic Cells
Sá Fernandes C., Novoszel P., Gastaldi T., Sibilia M.

P5 EGFR and Innate Cell Metabolism
Fari O., Holcman M., Sibilia M.

P6 The role of allergen-specific IgG antibodies in the induction of clinical tolerance for the birch pollen-related apple allergy
Sánchez Acosta G., Kinaciyan T., Mões C., Pfitzner W., Bohle B.

P7 The ERBB-STAT3 Axis Drives Tasmanian Devil Facial Tumor Disease

P8 The role of the Protocadherin CDHRS in intestinal tissue homeostasis and CRC
Awad M., Krieger S., Milovanovic D., Cricci I., Svinkla J., Timelhaler G., Kenner L., Eferl, R.

P9 Characterization of the affinity of Mal d 1-specific antibodies induced by sublingual immunotherapy with recombinant Bet v 1 or Mal d 1
Strobi M.R., Kitzmüller C., Lupinek C., Sánchez Acosta G., Kinaciyan T., Bohle B.

P10 An anti-inflammatory role for ALK3 in Langerhans Cells
Hochgerner M., Bauer T., Borek I., Sibilia M., Strobi H.

P11 The role of RNA modification in innate immunity and inflammation signaling
Varada R., Bajaj P., Jantsch M.

P12 Oncogenic germline mutations of TYK2 in acute lymphoblastic leukemia
Woess K., Lassnig C., Meissl K., Moriggi R., Maurer B., Prchal-Murphy M., Sexl V., Heyes, E., Ebnier J., Grebien F., Strobil B., Macho-Maschler S., Müller M.

14.45–16.00 Poster Session I

**Group 2: 15 – 27**

**Immunology and Allergology**

P13 Loss of bile salt export pump (Bsep/Abcb11) aggravates lipopolysaccharide induced hepatic inflammation in mice
Remetic J., Mitz V., Kunzer V., Scharnagl H., Stojakovic T., Fuchs C.D., Trauner M.

P14 The Kinase Inhibitor BX-795 is a TCR signaling modulator that stimulates IL-2 while attenuating Th2 response

P15 Bet v 1 – specific adaptive immune responses in mice and man
Adebanke A.O., Huang H., Focke-Tejkl M., Valenta R., Campana R.

P16 Bi-specific antibody conjugates binding ICAM1 and allergens prevents transepithelial allergen migration and rhinovirus infection

P17 Soluble FcεRI disrupts cell-bound chimeric IgE
Kopanja S., Morino-Romero S., Schmidthaler K., Diesner S.C., Bohle B., Fiebig E., Szepfalusy Z.

P18 Fast production of human monoclonal antibodies (IgE, IgG1 and IgG4) against beta-lactoglobulin by PIPE cloning

P19 Establishment of surrogate ELISA-based assays for studying rhinovirus-receptor interactions
Pazođerova P., Walti E., Niederberger V., Flicker S., Valenta R., Niespodziana K.

P20 Influence of obesity on the development of allergy and mucosal tolerance

P21 Suppression of experimental allergic airway inflammation by nasal application of probiotic E. coli 083

P22 Neutrophils promote T-cell mediated inflammation in allergy
Polak D., Samadi N., Zuccardelli C., Acosta G.S., Rooskoff S., Steiniberger P., Jahn-Schmid B., Bohle B.

P23 The AIT- adjuvants alum and MPLA as trigger for NET release in human neutrophils
Karacas J., Reithofer M., Bohle B., Jahn-Schmid B.
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**P24** PIPE-cloned recombinant antibodies against the major birch pollen allergen Bet v 1 engineered with Fc domains of different isotypes

**P25** CD47 targeted immunogene therapy for tumor eradication via immune cell activation

**P26** Chronic CTLA4-Ig therapy leads to permanent heart allograft survival in the absence of CD40-CD40L interaction
Muckenhuber M., Unger L.W., Mahr B., Granofszky N., Schwarz C., Pilat N., Regele H., Wekerle T.

**P27** Significance of genotype-specific immunity against Helicobacter pylori antigens
Bilgilier C., Schneider M., Kührer K., Kilb N., Herz T., Roth G., Steinering C.

**14.45–16.00 Poster Session I**

**Group 3: 28 – 40**

**Molecular Signal Transduction**

**P28** In vitro feeding of Ixodes ricinus and Amblyomma variegatum ticks using silicon membranes
Wijnveld M., Lindgren P.E., Stockinger H., Stanek G.

**P29** Novel inborn error of immunity linking aberrant cytoskeletal dynamics and severe immune dysregulation

**P30** The role of DNA methyltransferase 1 in macrophages
Kavakioglu G., Hess L., Fischer H.

**P31** Allergen exposure modulates the microbial composition in the gut

**P32** Back to Basics - Characterizing the Cells of the Respiratory Tract Brings Us One Step Closer to Understanding Pneumonia
Stecher C., Katic A., Rieder F., Marie-Theres K., Nekhai S., Steininger C.

**P33** Comprehensive phenotypic immune monitoring in a prospective randomized controlled trial of prophylactic use of extracorporeal photopheresis (ecp) in lung transplantation

**P34** Isolation of exosomes from body fluids by differential ultracentrifugation
Schulz S., Schachner H., Rees A.J., Kain R.

Thursday, 13th June 2019

**P29** P35: Studies on the mechanism of beneficial effects of probiotic E. coli O83 in a mouse model of airway inflammation

**P36** A genome-wide FACS based screen in macrophages uncovers genes involved in phagocytosis and cellular pH homeostasis
Eslettzbichler P., Sedlyarov V., Girardi E., Superti-Furga G.

**P37** Identification and characterization of almond allergens
Kabassar S., Jensen A.N., Mothes-Luksch N., Jensen-Jarolim E., Hoffmann-Sommergruber K., Bredenheider H., Bublin M.

**P38** Rinl - a novel modulator of CD4+ effector T-cells
Sandner L., Tschamme R., Ellmeier W., Herbst R., Boucheron N.

**P39** Reduced antibody titers and higher seronegativity rates against most common vaccine preventable diseases in adult cancer patients

**P40** Structure based epitope grafting indicates the IgE specific to the major birch pollen allergen, Bet v 1, binds a subset of potential epitopes in a patient specific manner
Schmalz S., Shoshorova A., Mayr V., Eisner C., Sturm G., Radauer C.

**14.45–16.00 Poster Session I**

**Group 4: 41 – 54**

**Cell Communication in Health and Disease**

**P41** Devising a dual chimeric antigen receptor system to prevent on-target off-tumor effect of engineered T cells
Timo Peters, Gudipati V., Dushek O., Hudecek M., Huppa J.B.

**P42** Vaccination with preS-based grass pollen allergy vaccine BM32 induces protective antibody responses against hepatitis B

**P43** Protein phosphatase 1 as a modulator of innate immunity during CMV infection
Stecher C., Katic A., Rieder F., Marie-Theres K., Nekhai S., Steinering C.

**P44** Impairment of TBE vaccine-induced antibody response by previous yellow fever vaccination
Bradt V., Janmer J., Malafa S., Kaner Uts, Staasny K., Heinz F.X.

**P45** Potency of IL-2/anti-IL-2 complexes to induce tolerance in a skin graft model
Steiner R., Willetel M., Weijler A., Sprent J., Wekerle T., Pilat N.
Thursday, 13th June 2019

P46 Myeloid PTEN Promotes Obesity-Induced Insulin Resistance
Vogel A., Brunner J.S., Lercher A., Korosec A., Sharif O., Schabbauer G.

P47 A platform to functionally test T cell sensitivity

P48 Anti-tumor activities of Chinese herbal medicine and their possible mechanism in prostate cancer cells
Xiao W., He S., Saciri A., Lyu F., Ma Y.

P49 AID and KI67: interrelated partners in germinal center biology
Piccolo D., Mungenast F., Meschederhalya A., Salzmann M., Beer A., Birner P., Koperek O., Mechtcheriakova D.

P50 Treatment with IL-2 Complexes Effects Frequency of Plasma Cells

P51 NFkB signaling is dispensable for suppressive function of human regulatory T-cells
Ziegler L., Gerner M., Schmidt R., Schmetterer K.

P52 WFDC12, a potential epidermal protease inhibitor, contributes to skin homeostasis
Kalinina P., Buchberger M., Golabi B., Lengauer B., Hiess M., Tschachler E., Mildner M.

P53 Osteoclasts Metabolically Adapt to Arginine Restriction

P54 Epithelioid cell differentiation in granulomatous disease
Mägi H.K.

P55 Exploring the Functions of Metabolic Enzymes in the Nucleus
Reicher, A., Kubicek, S.

P56 Screening for cardiac amyloidosis in aortic stenosis scheduled for TAVR

P57 In vitro characterization of 1-phenyl-2-(pyrrolidin-1-yl)pentan-1-one (-PVP) enantiomers
Niello M., Jantsch K., Sitte, H.H., Walther D., Baumann M.H.

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P58 Implementation of real-time image-based respiratory motion compensation for cardiac MR spectroscopy
Wampl S., Koerner T., Meyerspeier M., Schmid A.

P59 Pharmacological characterization of plant-derived peptides as ligands of the kappa-opioid receptor
Muratspahic E., Gruber C.W.

P60 Continuous Perfusion Culture Effects on the Endocrine Pancreas
Pazdior K., Kubicek S.

P61 Epigenome-Wide RNAi Screen Identifies a Repressor of Insulin Expression in Alpha Cells
Casteels T., Kubicek S.

P62 Identification of new regulators of alpha to beta-like cell transdifferentiation
Marquina-Sanchez B., Forteln Y., Farlik M., Kubicek S.

P63 Search for human proteins showing potential interactions with Toxocara canis MUc-3 antigen using yeast two hybrid system
Milewska M., Dlugosz E.

P64 Development and anticancer activity of hypoxia-activatable prodrugs of the tyrosine kinase inhibitor crizotinib
Schueffl H., Bielec B., Terenzi A., Keppler B.K., Kowol, C.R., Heffter P.

P65 Identification of evolutionarily ancient epidermal differentiation genes by comparative analysis of organotypic models of chicken and human skin
Lachner J., Wagner T., Schuster M., Bilban M., Derdak S., Mildner M., Tschachler E., Eckhart L.

14.45–16.00 Poster Session I

Group 5: 55 – 66
Endocrinology and Metabolism

P54 Exploring the Functions of Metabolic Enzymes in the Nucleus
Reicher, A., Kubicek, S.

P55 Screening for cardiac amyloidosis in aortic stenosis scheduled for TAVR

P57 In vitro characterization of 1-phenyl-2-(pyrrolidin-1-yl)pentan-1-one (-PVP) enantiomers
Niello M., Jantsch K., Sitte, H.H., Walther D., Baumann M.H.

Group 6: 67 – 79
Molecular Mechanisms of Cell Biology / Cardiovascular and Pulmonary Disease

P64 Development and anticancer activity of hypoxia-activatable prodrugs of the tyrosine kinase inhibitor crizotinib
Schueffl H., Bielec B., Terenzi A., Keppler B.K., Kowol, C.R., Heffter P.
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P71 Fish-derived low molecular weight components modify bronchial epithelial barrier properties and release of pro-inflammatory cytokines

P72 Assessment of tumor hypoxia with Blood and tissue oxygenation level-dependent MRI measurements as prognostic biomarkers for breast cancer aggressiveness
Ehret V., Friske J., Fröhlich V., Laimer-Gruber D., Helbich T.

P73 Cardiac phenotype of the Dmdmdx rat – an animal model of Duchenne muscular dystrophy (DMD)

P74 pH dependent activation of TALK1 channel
Postic S., Tsai W.H., Yang S.B., Slak Rupnik M.

P75 Specific Fibroblast Populations expand in the Tumor Stroma of Skin Papillomas
Frech S., Korosec A., Lichtenberger B.M.

P76 Screening of Modafinil analogues: Atypical dopamine re-uptake inhibitors for neurocognition enhancement
Khan J.A., Ilic M., Kalaba P., Sitte H.H., Lubec G.

P77 Myocardial and valvular characterization of a novel closed chest model of ischemic mitral regurgitation in pigs

P78 Life under hypoxia improves glucose tolerance in mice exposed to a high-fat diet without any impact on the lipid metabolism and mitochondrial biogenesis
Luca A.C., Kaplanian M., Hackl M., Einwallner E., Scherer T., Fünsminn C.

P79 Functional genomic investigation of NUP98-fusion proteins in leukemia
Tröster S., Schmölzer J., Grebien F.

14.45–16.00 Poster Session I

Group 7: 80 – 93
Molecular Drug Targets/ Regeneration of Bones and Joints

P80 The role of cytosolic and mitochondrial reactive oxygen species in the transition from quiescence to an active state in hASMCs

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P81 Validation of commercial dose calculation algorithms for pencil beam scanning in proton therapy
Ruangchan S., Fuchs H., Knausl B., Georg D., Clausen M.

P82 Fibroblast growth factor receptor 4 modulates glioma cell trans-differentiation

P83 T cell antigen recognition in health and autoimmunity
Plach A., Schober K., Madritsch C., Nau A., Davis M. M., Busch D.H., Huppa J. B.

P84 The Role of Lysosomal Transcriptional Control in Adipose Tissue Macrophages
Braun C., Stüling T.

P85 Elucidating the functional role of EL4 of SERT by employing antibodies and Fab(s)
Esendir E., Sandtriner W., Freissmuth M.

P86 Assessment of Vorinostat as an acute treatment option in the neuroinflammatory form of X-linked Adrenoleukodystrophy

P87 A mutation of A11-adenosine receptor (A1R–G279S) associated Parkinson's disease
Nasrollahi-Shirazi S., El-Kasaby A., Sucic S., Yang Q., Nanoff C., Freissmuth M.

P88 Does neuroinflammation drive spinal sensory activity towards patterns associated with allodynia? A voltage-sensitive dye imaging study in rat spinal cord
Haider T., Henke B., Sandkühler J.

P89 Brown fat activity in mood regulation
Sideromenos S., Nikou M., Pollak D. P.

P90 Toll-like receptors: Deciphering their role toward Borrelia spp.
Mündler V., Battin C., Reiter M., Stanek G., Steinberger P., Stockinger H.

P91 Fundamental sex differences in morphine withdrawal-induced synaptic plasticity
Hadschieff V., Drdla-Schutting, R., Sandkühler J.

P92 GPR55 controls functional differentiation of self-renewing epithelial progenitors for salivation
Korchynska S., Lutz M., Borók E., Pammer J., Cinquina V., Pedirko N., Irving A., Mackie K., Harkany T., Keimpema E.

P93 Effects of cold exposure and adrenergic activation on bone metabolism
Sprik K., Safdering V., Fenzl A., Herz CT., Blümli S., Kiefer FW.
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**Group 8: 94 – 109** Disease Development / Tumor biology

**P94** Dissecting the role of the Calcium-Sensing Receptor in colorectal cancer
Iamartino L., David J., Schepelmann M., Grusch M., Heffeter P., Baumgartner-Parzer S., Kallay E.

**P95** Residual repair of Cas9-induced DNA double strand breaks in cells deficient for non-homologous end joining and alternative end joining
Schrempf A., Loizou J.

**P96** Mechanism of Axl-mediated tumor progression in metastatic Colorectal Cancer
Blauensteiner B., Moreo Vedova V., Winter D., Cardone C., Martelli E., Ciardiello F., Maria Sibilia M.

**P97** Modelling co-morbidity patterns and risk in patient trajectories in lung cancer patients
Alakraa M.

**P98** NUP98-fusion proteins cause altered Biomolecular Condensation in Leukemia
Terlecki-Zaniewicz S., Eder T., Hummer T., Kuchynka N., Schmoller J., Muller A., Grebien F.

**P99** Nutritional and pharmacological modulation of the Calcium-Sensing Receptor in the dextran sulphate sodium- induced colitis mouse model
Iamartino L., David J., Schepelmann M., Grusch M., Heffeter P., Baumgartner-Parzer S., Kallay E.

**P100** Monitoring evidence on overall survival benefits of anti-cancer drugs approved by the European Medicines Agency between 2009 and 2015
Grössmann N., Robausch M., Rosian K., Wild C., Simon J.

**P101** Evaluation of ILEI/FAM3C as a prognostic marker and therapeutic target in head and neck and cutaneous squamous cell carcinomas
Malik B., Vokic I., Holcmann M., Mohr T., Petzelbauer P., Sibilia M., Csiszar A.

**P102** GATA6 suppresses pancreatic cancer progression and metastasis
Kloisch B., Martinelli R

**P103** The role of interleukin-8 in the pathogenesis of systemic mastocytosis
Witzeneder N., Frank S., Gurbisz M., Schmetterer K., Mayerhofer M., Sperr W. R., Arock M., Hoermann G.

**P104** Chimeric antigen receptor (CAR)-T cell therapy for myeloproliferative neoplasms with mutated c-kit/lecitin
Schueler C., Kralovics R.

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14.45–16.00 Poster Session I


**P105** Expression of chondroitin sulfate proteoglycan 4 (CSPG4) is influenced by the inhibition of MAPK signaling in BRAF-mutant melanoma cells
Uranowska K., Kalic T., Ellinger I., Breiteneder H., Schäider H., Hafner C.

**P106** Thiosemicarbazone copper complex stability and its influence on parapostasis induction
Hager S., Pape V. F. S., Berger W., Grusch M., Keppler B. K., Szakács G., Kowal C. R., Enyedy E. A., Heffeter P.

**P107** Mutational Processes due to High Fat Diet Induced Sterile Inflammation
Meyenberg M.

**P108** Proteomic profiling to predict therapeutic response to anti-PD1 therapy in melanoma

**P109** Establishing a model of Ewing Sarcoma in zebrafish
Grisenberg S., Poetsch A., Heinzi M., Morelli L., Poptitsch N., Sheffield N., Kovar H., Distel M.

**P110** Intestinal biofilms are an endoscopic feature of irritable bowel syndrome

**P111** Cell-free DNA analysis for sensitive follow-up monitoring and early relapse detection in MYCN amplified high-risk neuroblastoma patients

**P112** STAT3β is a tumor suppressor in acute myeloid leukemia

**P113** Serum and urinary biomarkers for the prediction of late antibody-mediated kidney transplant rejection
Mühlbacher J., Diener K., Koszakowski N., Regele H., Haindl S., Eskandary F., Böhmig G., Wahrmann M.

**P114** Development of donor-specific antibodies in murine cardiac transplant model during CTLA4 immunoglobulin treatment
Weijler A. M., Muckenhuber M., Schwarz C., Wiletel M., Pilat N., Wekerle T.
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P116 Evaluation of the feasibility of an in-house ex-vivo cytokine release assay in the Vienna cohort of peritoneal dialysis patients

P116 Connecting the proteome and metabolome of peritoneal dialysis effluent – influence of dwell duration and cytoprotective intervention
Wiesenhofer F., Herzog R., Wagner A., Unterwurzacher M., Vychytil A., Aufricht C., Kratochwill K.

P117 Use of hiPSC derived podocytes for disease modelling of Drug Induced Phospholipidosis

P118 Generative Adversarial Nets for the Prediction of Lesions in High Risk Breast Cancer Patients
Burger B., Bernathova M., Helbich T., Singer Ch., Langs G.

P119 Re-epithelialization studies in a novel ex vivo human skin wound-healing model
Rakita A., Nikolic N., Mildner M., Matiassek J., Elbe-Bürger A.

P120 Intra bladder wall mesenchymal stem cell transplantation in management of neurogenic bladder dysfunction: a translational study
Mostafaei H., Salehi Pourmehr H., Hajebrahimi S.

P121 Modelling of brain activation during a psychopharmacological challenge based on the topology of molecular targets

P122 Strategy for high-throughput chemical screening targeting solute carrier membrane transporters
Dvorak V., Bensimon A., Superti-Furga G.

P123 The ER (endoplasmic reticulum) in the ER (emergency room): effect of ER Stress modulation on organ injury and blood circulation in Traumatic Hemorrhagic Shock
Luís A., Müllebner A., Jafarmadar M., Keibl C., Jilge J., Duvigneau J.C., Bahrami S., Kozlov A.V.

P124 The potential influence of perfluoralkyl substances on fetal growth

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Poster Session II

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Group 10: 125–137
Molecular Mechanisms of Cell Biology & Regeneration of Bones and Joints & Preclinical and Clinical Research for Drug Development & Integrative Structural Biology

P125 Arginine regulates IL-4 induced Giant Cell Formation
Hofmann M., Brunner J.S., Kieler M., Vogel A., Kain R.

P126 Glucose concentration influences α-tubulin expression in vitro
Szwarc D., Weitzer G., Ruhnert D.

P127 Microbial effector interplay in CRC
Artner L., Koi L., Politi L., Schild S., Zechner E., Sibilia M.

P128 Intra-bladder wall transplantation of bone marrow mesenchymal stem cells improved urinary bladder dysfunction following spinal cord injury
Mostafaei H., Abolhasanzadeh N., Hajebrahimi S.

P129 Impact of the lipid metabolism on KP1329 anticancer activity
Bauer D., Schwenker-Alte B., Englberger B., Köhler T., Pirker C., Rohr C., Buck A., Lämmerer A., Heffeter P., Keppeler B., Berger W.

P130 Retinal Neurovascular Coupling in Glaucoma Patients
Kailab M., Hommer N., Szegedi S., Werkmeister R.M., Schmidt D., Gähöfer G.

P131 PGOR1C2 is expressed in Hassall’s bodies of the thymus and in terminally differentiated epidermal keratinocytes
Abbas Zadeh S., Lachner L., Mildner M., Mitter M., Ecker L., Tschachler E.

P132 The human ABCG2 Multidrug Resistance Transporter Operates as a Peristaltic Drug Pump Gated by a Hydrophobic Di-Leucine Valve and an Extracellular Lid
Khunweeraphong N., Szöllösi D., Stockner T., Kuchler K.

P133 Probing the Dynamic Order of Protein Disorder: YAP:TEAD Binding is Facilitated by the Structural Preformation of a Surprisingly Compact State
Feichtinger M., Beier A., Migotti M., Schmid M., Konrat R.

P134 Metabolomic profiling and its impact on liver regeneration
Jonas J.P.

P135 Tumor growth rates as independent predictor for therapy response and prognosis of recurrent high grade serous ovarian cancer
Bartl T., Postl M., Grimm C., Reinthaller A., Schwarmereis R., Cassire Castillo-Tong D.
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P136 Ectopic lymphoid structures in cancer tissues: dissecting complexity and functionality
Mungenast F., Mescheryakova A., Beer A., Salzmann M., Tamandl D., Bergmann M., Grünberger T., Pietschmann P., Birner P., Koperek O., Mechtcheriakova D.

P137 1,25(OH)2D3 Indirectly Effects CD4+ T cell Proliferation and Differentiation via IFN-γ treated NPDLSKs
Behm C., Blufstein A., Gahn J., Kubin B., Moritz A., Rausch-Fan X., Andrukhov O.

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Group 11: 138 – 152
Regeneration of Bones and Joints & Cardiovascular and Pulmonary Disease

P138 Adjunctive antimicrobial measures in surgical peri-implantitis treatment: a systematic review
Feher B., Gruber R., Ulm C., Kuchler U.

P139 Effect of kaolinite on human periodontal cells and pro-angiogenic marker production in vitro
Müller A. S., Janji K., Shokoohi-Tabrizi H., Oberoi G., Moritz A., Agis H.

P140 Evaluation of 3D gingival fibroblast toroids as attachment assay for collagen membrane testing
Janjic K., Cvikl B., Schädl B., Moritz A., Agis H.

P141 Milk and dairy products modulate macrophage polarization in vitro
Panahipour L., Kochergina E., Kreissl A., Haiden, N., Gruber R.

P142 Effect of vitamin D3 on expression of osteogenesis-related factors by human periodontal ligament stem cells is altered under inflammatory conditions
Blufstein A., Behm C., Gahn J., Kubin B., Rausch-Fan X., Andrukhov O.

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P147 Cardiac pacing and chemotherapy: Paceing threshold reflects cardiotoxic effects and predicts survival: A retrospective trial

P148 Sublingual microcirculation in diabetes
Wadowski P.P., Kautzky-Willer A., Greßmuller T., Koppensteiner R., Wolf P., Ertl S., Weikert C., Schüngenhofer C., Jilma B.

P149 EMMPRIN as a potential biomarker for atherosclerotic plaque vulnerability in patients with high-grade carotid stenosis
Kampf S., Stojkovic S., Eilenberg W., Krenn K., Wojta J., Demyanets S., Neumayer C.

P150 The Correlation Of Coagulation Factor XIII Activity and Anatomotic Leakage In Patients Who Undergo Bowel Resection: A prospective observational study
Mueller J. S., Wiegele M., Quehenberger P., Stift A, Martin C., Schaden E

P151 Oxygen oscillations as pathomechanism in respiratory failure: Characterization of intercellular communication by miRNA profiling of microvesicles

Kraft F., Trett V., Weller A., Pilat N., Ulrich R.

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Cardiovascular and Pulmonary Disease & Vascular Biology

P153 Characterization of left ventricular function, proinflammatory cytokines and NR4A-1 in chronic kidney disease model in rat
Acar E., Márványkövi F., Dajka D., Kovács Z. S., Bergmeister A., Csont T., Podesser B. K., Sárközy M., Kiss A.

P154 Remote conditioning partially reverses myocardial ischemia and reperfusion induced vascular endothelial dysfunction in aorta
Dostal C., Szabo L. P., Hamza O., Pilz P., Inci M., Podesser B., Kiss A.

P155 Progression of cardiac and vascular dysfunction in mouse model of Duchenne Muscular Dystrophy
Szabó L., Hamza O., Inci M., Hilber K., Ebnzer J., Podesser B. K., Kiss A.

P156 Aspirin for primary prevention of cardiovascular disease – a meta-analysis
Gelbengessinger G., Postula M., Pecen L., Halvorsen S., Lesiak M., Schoeggenhofer C., Jilma B., Hengstenberg C., Siller-Matula J. M.
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P157 Assessment of the tissue Renin-Angiotensin-System RAS in a pig model of heart failure
Mueller C., Pavo N., Zlabinger K., Lukovic D., Poglitsch M., Hülsmann M., Gyöngyösi M.

P158 Retinal oxygen saturation is affected in patients with mild cognitive impairment and Alzheimer’s disease

P159 In vitro hypertrophy stimulation in human cardiomyocytes leads to down-regulation of MEF2C and GATA-4; potential role of miRNA-21 and miRNA-29a
Zlabinger K., Winkler J., Traxler-Weidenauer D., Spannbauer A., Mester-Tonczar J., Pavone-Gyöngyösi M.

P160 Circular RNA CDR1as detected in porcine heart via qPCR and Sanger sequencing
Mester-Tonczar J., Winkler J., Lukovic D., Gyöngyösi M.

P161 Surgical models of abdominal aortic aneurysm formation in mice
Bleichert S., Busch A., Bailey M., Ibrahim N., Brostjan C.

P162 Long term inhibition of Complement C1s in Patients with Cold Agglutinin Disease: Results from a Named Patient Program

P163 Pre-inflammatory Macrophage Polarization enhances Neutrophil Extracellular Trap Degradation
Haider P., Mayer J., Kaun C., Speidl W., Wojta J., Hohensinner P.

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Vascular Biology & Clinical Neurosciences (CLINS) & Neuroscience

P164 Molecular glucose steel phenomenon imaged by hybrid PET-MRI: 18F-FDG perfusion–metabolism mismatch 3 days after acute myocardial infarction in a translational pig model of ischemic left ventricular dysfunction

P165 Cingulin can protect vascular barrier function
Holzer S., Petzelbauer P., Schossleitner K.

P166 Cellular Interactions and Molecular Turnover of Thrombospondin-1 Isoforms
Ibrahim N., Seif K., Hochreiter B., Brostjan C.

P167 Measurement of total retinal blood flow and oxygen extraction in patients with type II diabetes and healthy subjects
Hommer N., Schmidt D., Kallab M., Szegedi S., Howorka K., Werkmeister R., Garhöfer G.

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P168 Fabrication of a Bio-engineered Pre-Vascularized Islet Organ Generated by Organ Crossover
Moser P.T., Citro A., Rajab T.K., Ren X., Evangelista D., Podesser B.K., Piemonti L., Ott H.C.

P169 Effect of ischemic pre-conditioning on expression of cardio- and thrombomiRs in a porcine model of acute myocardial infarction

P170 Vascular Morphogenesis in the Context of Inflammation: Self-Organization in a Fibrin-Based 3D Culture System
Rüger B. M.

P171 Lack of tenasin c improves vascular endothelial function and network remodeling of coronary resistance arteries in diabetes

P172 Neuropathology and post-mortem imaging characteristics in autoimmune giall fibriillary acidic protein meningoencephalomyelitis
Endmayr V., De Simoni D., Gelpi E., Robinson S., Guthrie C., Oberndorfer S., Hametner S., Höftberger R.

P173 Global functional connectivity changes induced by standardized associative learning measured with resting-state fMRI
Handschuh P., Klöbl M., Seif B., Gyslewski M., Hahn A., Kasper S., Vanicek T., Lanzenger R.

P174 The role of auto-antibodies in spinal cord injury–induces maladaptive immune response and autoimmunity
Schwaiger C., May C., Kopp M., Schwab J., Höftberger R.

P175 Neurite outgrowth inhibitor A is upregulated in white matter lesions of complex cortical malformations

P176 Neural circuitry underlying learned maternal care behaviour in nulliparous mice
Gundacker A., Giat M., Pollak D.

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Group 14: 177 – 191
Neuroscience

P177 Characterization of novel GABAA receptor modulators of pyrazoloquinolinone class with low affinity for benzodiazepine binding sites
Fabjan J., Iorio, M. T., Bampali, K., Siebert, D. D. B., Studle F., Scholze, P., Mihovilovic, M. D.2, Ernst, M.

P178 Neuronal circuits of the orbitofrontal cortex for decision confidence
Nathanson B., Lagler M., Ren S., Ott T., Hauer R., Kepes A., Klausberger
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P179 Molecular characterization of two novel missense mutations in MuSK associated with congenital myasthenic syndrome
Korde D., Herbst R.

P180 Molecular Neuropathology of HACE1-Deficiency
Fell C. W., Kokotovic T., Lenartowicz E., Nagy V.

P181 Blood-brain barrier-related proteins in autoimmune encephalitis and demyelinating CNS disorders
Winkler M., Lang A., Ricken G., Höftberger R.

P182 Serine Phosphorylation as a Novel Regulatory Mechanism in Muscle Specific Kinase Signaling
Jonas K., Herbst R.

P183 Pathogenic mechanisms in fulminant Susac’s Syndrome
Glatter S., Schwager C., Awad E. M., Breuss J., Bauer J., Seidl R., Höftberger R.

P184 Anterograde Trafficking of the Creatine Transporter-1
Farr C., El-Kasaby A., Kasture A., Sucic S., Freissmuthb M.

P185 Cellular diversity in the developing hypothalamus
Tretiakov E., Romanov R., Harkany T.

P186 Cerebral cortex parcellation based on mRNA expression maps
Murgaš M., Gryglewski G., Klöbl M., Reed M. R., Lanzenberger R.

P187 Kv7 channel and inositol phosphate cycle
Moßhammer A., Salzer I., Böhm S.

P188 B lineage cells and antibody repertoire in Multiple Sclerosis
Paunovic M., Beltran E., Wimmer I., Dornmair K., Bradi M., Lassmann H.

P189 Interplay of aminopropyl-benzothiophenes with monoamine transporters
Ljubicic T., Holy M., Jantsch K., Brandt S. D., Sitte H. H.

P190 Supraspinal neuroinflammation in pain affective disturbances: role of the parabrachial nucleus
Mussetto V., Heinike B., Hogri R., Sandkühler J.

P191 The role of spinal astrocytes in nociception and pain
Ada S., Kurija D., Klimbacher R., Sandkühler J., Dilia-Schutting R.

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Group 15: 192 – 204
Neuroscience

P192 The parabrachial nucleus: A potential site for opioidergic modulation of pain aversion
Teuchmann H. L., Heinike B., Hogri R., Sandkühler J.

P193 Structural correlates of transmitter release, vesicle pools and plasticity at hippocampal mossy fiber synapses
Kim Q., Borges-Merjane C., Jonas P.

P194 Extracellular muscles are target of inflammation in experimental Neuromyelitis Optica
Nitrinou M., Bradi M.

P195 Homeobox protein MOX-2 plays a critical role in nociceptor function

P196 STAT3 in the serotonergic system and its relevance for psychiatric disorders
Reisinger S. N., Sideromenos S., Cicvaric A., Bilban M., Czabatic B., Monje F.J., Pollak D. D.

P197 Firing patterns of GABAergic neurons during gamma oscillations in area CA1 of the mouse hippocampus
Sakalar E., Wallerus A., Klausberger T., Lasztozci B.

P198 Acute intermittent porphyria – pathogenic principles and neurobiological mechanisms
Berger S., Stattmann M., Cicvaric A., Monje F., Ricken G., Hainfellner J., Ernst M., Scholze P., Greber-Platzer S., Yasuda M., Desnick R., Pollak D.

P199 Heterogeneity of neural crest and Schwann cell precursor populations during development
Faure L., Kastriti M.E., Kaucha M., Adameyko I.

P200 Evaluation of the C9ORF72 Hexanucleotide Repeat Expansion in Austrian Dementia Patients
König T., Hotzy C., Silvaeh S., Parvizi T., Wurm R., Zimprich A., Stogmann E.

P201 Astrocyte diversity in the hypothalamic circuitry
Jarc J., Kovacs G. G., Verkhratsky A., Keimpema, Harkany T.

P202 A three-dimensional in vitro model of the Neuromuscular Junction
Casado-Losada I., Spitz S., Rothbauer M., Ertl P., Herbst R.

P203 Cholesterol in X-linked adrenoleukodystrophy
Buda A., Wiesinger C., Forss-Petter S., Berger J.

P204 Demyelination and remyelination in X-linked adrenoleukodystrophy
Martinovic K., Harinett S., Stadelmann C., Höftberger R., Lassmann H., Bauer J., Berger J.
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Neuroscience & Biomedical Engineering & Medical Informatics, Biostatistics & Complex Systems

- P205 Generation of an in vitro model for Human Specific nAChR Polymorphisms via iPSC Derived Neurons
  Soztekin, Huck S., Uwe M., Scholze P.

- P206 In-vitro Measurement of Centering Forces on a Transvalvular Ventricular Assist Device Cannula
  Stoiber M., Aigner P., Moscato F., Schima H.

- P207 Cardiac respiratory motion detection algorithm development for navigator applications
  Koerner T., Wampf S., Meyerspeier M., Moser E., Schmid A.

- P208 Small diameter vascular grafts with adjustable mechanical properties
  Grasl C., Stoiber M., Bergmeister H., Schima H.

- P209 Artificial image synthesis and data augmentation for deep learning segmentation in 22 phase contrast images for biomarker discovery in cancer research
  Mivalt F., Kromp F., Lazic D., Ostalecki C., Ambros I., Ambros P., Taschner-Mandl S.

- P210 Flow field visualization in the assisted isolated heart during mechanical circulatory support
  Aigner P., Schweiger M., Fraser K., Lemme F., Cesarovic N., Schima H., Hübner M., Granegger M.

- P211 Investigation of left ventricular flow fields under LVAD support with synchronized pump speed changes
  Khienwad T., Maurer A., Schima H., Aigner P.

- P212 Extracting and combining concepts of Physiological Control of Left Ventricular Assist devices
  Maw M., Moscato F., Wiedemann D., Gross C., Schloglhofer T., Schima H.

- P213 Evaluation of motion correction strategies in resting-state functional MRI of the foetal brain

- P214 Effect of atrial inflow conditions on ventricular flow pattern during mechanical circulatory support using particle tracking
  Ghodrati M., Moscato F., Khienwad T., Zonta F., Aigner P., Schima H.

- P215 Pathway-based drug repositioning for breast cancer molecular subtypes
  Mejía-Pedroza R. A., Espinal-Enríquez J., Hernández-Lemus E.

- P216 A Two-Stage U-Net Algorithm for Segmentation of Nuclei in Hematoxylin and Eosin H&E-Stained Tissues
  Mahbod, A., Schaefer G., Ellinger I., Ecker, R., Smedby Ö., Wang C.
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P229 What happens to bariatric patients who did not attend a structured follow-up program in an outpatient clinic? A questionnaire based study
Ranzenberger-Haider T., Maruszczak K., Krebs M., Prager G., Rube S., Schindler K.

P230 Multilevel factors associated with repeat adherence to mammography screening in women in Austria
Ilic L., Simon J., Greideringer G., Reitter-Pförtner S., Rieder A., Haidinger G.

P231 Iron metabolism of the human placenta – the key to understand iron transfer from the mother to the fetus

P232 Does the use of T2MR for detection of ESKAPE pathogens in Blood-Stream infection shorten the time until targeted therapy and influence patients' outcome?
Seitz T., Zoufaly A.

P233 The involvement of iron transporters in placental cadmium uptake

P234 Effects of the exposure to mobile phones on heart rate variability in patients with aortic valve replacement
Jargouri Esparti M. R., Hutter H. P., Mirmohammadsadeghi A., Kundi M., Weitensfelder L.

P235 Hidden suffering: Unemployed Voice Concerns about Transmission of Their Health Data to the Job Centre
Hummernbrum S.

P236 Sand fly dispersal in Central Europe: is temperature really critical?
Kniha E., Obwaller A., Poeppl W., Mooseder G., Walchinger J.

P237 The kinetics of mercury in the human placenta: Relationship between genotype and phenotype in healthy and diseased placentas

P238 A Dynamic Jaw Model with a Finite-Element Temporomandibular Joint
Sagi B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.

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P239 Suicide Risk and Suicide Prevention in Austrian Patients with Chronic Skin Conditions from the Dermatologists' Point of View
Pronizius E., Voracek M.

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P240 Modulation of cortical activity with non-invasive neurostimulation in children and adolescents with autism spectrum disorder – a randomized, double-blind and sham-controlled study
Prillinger K., Piener R., Poustka L., Koniar L.

P241 Autism Spectrum Disorders in Austria – Prevalence, comorbidities & challenges
Kafka J. X., Goreis A., Kohthassner O. D., Poustka L.

P242 A Preliminary Survey On The Mental Health, Behavioral Problems and The Availability of Caring Adults in Children With A History Of Loss, Violence and Divorce
Mayerhofer D., Völki-Kernstock S., Bogl G., Skala K.

P243 Anonymous birth: Mental health outcome of adopted children
Krenreiter J., Klier C., Felnhofer A., Fiala C.

P244 Social Cognitive Impairment in 22q11 Deletion Syndrome Linked to Psychopathology and Social Competence: A Review
Milic B., Debbané M., Salzer-Muhar U., Loeffler-Statista H.

P245 Personality functioning in At-Risk Mental State and First-Episode Psychosis
Gruber M., Fechtlinger K., Parth K., Woininger A., Mosaheb N., Litvan Z., Hinterbichinger B., Resch F., Doering S., Blueml V.

P246 Burden of mothers and fathers of children with ADHD

P247 Neurocognition in Depression, Bipolar Disorder and Schizophrenia
Mainhofer E., Sachs G., Erfurth A.

P248 Using Technology to manage Self-Harm in Young People: Patients’ Expectations for the future Digital Resources
Cus A., Edbrooke-Childs J., Ohmann S., Piener P., Akkaya-Kalayci T.

P249 Coparenting intervention for expectant parents effects relationship quality: A pilot study
Philipp A., Lee J. K., Stamm T., Kapusta N.

P250 Fostering socio-emotional skills in children with Autism Spectrum Disorder: Results of a multicenter randomized controlled trial with the interactive training app Zirkus Empathico
Diehm R., Kirst S., Wilde-Etzold S., Ziegler M., Noterdaeme M., Dzobiak I., Poustka L.

P251 Determinates of social connectedness in early adolescence – systematic literature review
Mitic M., Amering M.2, Woodcock K., Schrank B.

P252 Austrian firearm legislation and its effects on suicide and homicide mortality: A natural quasi-experiment amidst the global economic crisis
König D., Swoboda P., Cramer R. J., Krall D., Posatova V., Kapusta N. D.
Come and participate in our Science Quiz! Answer all the questions correctly and put this sheet of paper (carefully remove this page from the abstract book) into the cardboard box at the registration desk until 14.00 ON THE 14TH OF JUNE. AT THE SCIENCE PARTY, A WINNER WILL BE ANNOUNCED AND WIN A PRIZE!

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Email address: ____________________________

Climate Change and Health Info Booth
1. Globally, the mean surface temperature has until today increased by 1.1 °C since pre-industrial times (1880). How many degrees has the average temperature increased in Austria?
2. Which city-planning options prevent the development of urban heat islands (UHI)?
3. Which topics are addressed in the Sustainable Development Goals 3 and 13?

BD Biosciences
1. How are the new high-end analyzers with 30 or 50 parameters called?
2. What is the name of the analysis software of the new BD FACS Lyric™?
3. How is the service called that enables ordering of customized antibodies and fluorochromes at BD?

Microsynth
1. Which colors do the Barcode Economy Run Labels at Microsynth have?
2. Name 3 NGS products from Microsynth!
3. What are the three pillars of Microsynth?

Eppendorf
1. What is the name of the newest generation of incubators of Eppendorf?
2. For which cell type are the new Cell Culture Consumables FN1 motifs from Eppendorf made?
3. What is the name of the newest Combitips from Eppendorf?

Eurofinns Genomics
1. How fast can Eurofins Genomics deliver oligonucleotides?
2. How high is the total daily capacity of Sanger-sequencing in our labs?
3. At which speed can genes with a size of up to 1000bp be synthesized at Eurofinns Genomics?

Bartelt
1. What makes the Kojar security hood so unique?
2. With which clever door mechanism is the new Binder CO2 incubator equipped?
3. Which incubator shaker has the lowest workbank height with a three-way stapled system?

Biozym
1. What is Biozyms new Cell-Counter called and what makes him so special?
2. What are the 3 new Viromer transfection Media called from Biozym?
3. Why is the Biozym Blue S’Green 2 x Master Mix called „Blue“

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