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Vienna Doctoral School of Pharmaceutical, Nutritional and Sport Sciences

PhaNuSpo Retreat 2023

Vienna Doctoral School of Pharmaceutical Nutritional and Sport Sciences, University of Vienna

18-19 September 2023
Maiers Oststeirischer Hof, 8632 Söchau, Styria

What you can expect

A two-day programme of exciting scientific talks and poster presentations by our PIs, PhD students and key-note speaker showcasing the research diversity of the VDS PhaNuSpo and to strengthen interdisciplinary research and exchange. Prizes will be awarded to the 4 best posters. The second day programme will include workshops on career development, an open space for PhD students, for instance, to brainstorm and plan their own initiatives (e.g. symposium, science slam), or designing the 'power point karaoke' slides for the faculty party for staff in October, or sharing experiences of combining external work and study, or finalising the launch of our podcast series. The supervisors are invited to attend a workshop on supervision led by an external trainer. Last but not least, our annual retreat is a nice break from the daily routine at the university and a perfect opportunity to exchange ideas and to network with other PhD students and PIs, and as well having fun.

Target group

The Retreat is aimed for VDS PhaNuSpo and invited guest. An active contribution is expected as well as active participation during the entire period and will be credited with ECTS: active participation 1 ECTS, poster 2 ECTS and evaluation jury members 1 ECTS.

The costs for travel, accommodation and meals are covered by the doctoral school for PhaNuSpo members and invited guests.

Vienna Doctoral Schools

Retreat-Feedback

Scan the QR code or go to
https://forms.office.com/e/RdkeEvW5u8
Link is active 18.09. - 02.10.2023, 12pm

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AGENDA

DAY 1	Day of Science
08:00	Departure in Vienna (UZA2, Josef-Holaubek-Platz 2, 1090 Vienna, meeting point taxi stand between WU and Verkehrsamt, see map on last page)
About 10:30	• Arrival & check-in • Coffee
11:00 - 11:15	• Welcome • Housekeeping
11:15 – 12:30	Learn about the diversity of research at Pha-Nu-Spo • Presentations by Thierry Langer, Karl-Heinz Wagner and Robert Csapo • Panel discussion or Q&A session Short presentation of the forthcoming PhaNuSpo podcast series
12:30 - 14:00	Lunch
14:00 - 14:10	• Rules for poster sessions
14:10 - 15:10	• Poster session A: odd numbers
15:10 - 16:10	• Poster session B: even numbers
16:10 - 16:40	Coffee break
16:40 - 17:10	• Poster award session
17:10 - 18:10	• Keynote presentation by Werner Gruber & Panel discussion or Q&A session
18:30	Dinner
	Offered evening programme: bonfire (dependent on weather), ball games, etc.

DAY 2	Day of networking and development
09:00 – 10:30	Parallel sessions • For PIs: Supervision Workshop, Trainer Markus Böckle • For PhD students: Career talks with invited postdocs on "*My career path and its successes and challenges*".
10:30 – 10:45	Coffee Break
10:45 – 12:00	• Parallel sessions to continue • … and PhD-initiated sessions
12:00 – 12:30	To be confirmed • Roundup career talks • Roundup supervision workshop
12:30 – 14:00	Lunch
14:00 – 15:00	• Wrap-up & Photos & Farewell
15:00	Departure to Vienna

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INVITED GUESTS

Scientific Advisory Board (SAB) Member, representing Sport Science

Daniela Caporossi

Daniela Caporossi is Full Professor of Experimental Biology at the University of Rome "Foro Italico", Department of Movement, Human and Health Sciences. Her main research interests focus on the cellular and molecular basis of health-related physical activity, including a) exercise and redox imbalance in the induction of molecular damage and apoptosis, b) the role of free radicals in cell signaling and modulation of gene expression in skeletal muscle, c) genetic polymorphisms and motor performance.

Keynote speaker on 18 September

Werner Gruber

Professor Gruber is a well-known Austrian physicist, author, lecturer, cabaret artist, and co-founder of the Science Busters. At the age of 17, he received the 'First Austrian Youth Research Award' for the creation of a three-dimensional screen, which was followed by many other awards. In 1999, he graduated with honours in physics from the University of Vienna. He then worked as a research assistant at the Institute for Experimental Physics at the University of Vienna. From 2013 to 2022, Gruber was director of the astronomical facilities of the Wiener Volkshochschulen (adult education centres) - the Vienna Planetarium, the Kuffner Observatory and the Urania Observatory. During Prof. Gruber's directorship, the number of visitors almost doubled and the planetarium was transformed into one of the most modern planetariums in the world. He currently teaches physics at the Medical Faculty of the Sigmund Freud Private University in Vienna, is the Research Coordinator and Research Commissioner for the province of Burgenland, a member of the Board of Trustees of the Natural History Museum Vienna and is also assigned to the Cooperative Systems Research Group at the Faculty of Computer Science at the University of Vienna.

Trainer of the PI workshop on supervision on 19 September

Markus Böckle

Markus Boeckle works at the Karl Landsteiner Private University (Austria) and as a psychotherapist. His education and research have focused on an interdisciplinary approach of philosophy of mind, evolutionary biology, cognitive biology and acoustic communication. His focus in psychotherapy is to understand self-efficacy and intentions during the process of therapy and how they influence treatment outcome. Furthermore, he investigates in various forms of Psychotherapy Integration. He is also part of the research project team investigating on mental health and coping strategies among doctoral students in the life sciences.

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Session *"My career path and its successes and challenges"* on 19 September
Postdocs from the University of Vienna

Verena Battisti

Verena is a senior postdoctoral researcher in the Cheminformatics Research Group with strong academic expertise in pharmaceutical sciences and drug development. She obtained her MSc in Pharmaceutical Sciences from the University of Vienna, specialising in medicinal chemistry and drug development. During her master's program, she conducted research in anticancer pharmaceutical chemistry by designing and synthesizing Calothrixin analogues and graduated with distinction. Verena's passion for drug discovery and optimisation led her to pursue a PhD in medicinal chemistry and drug development at the University of Vienna (Austria), where she focused on computational drug design and lead optimisation of antiviral drugs. Verena's research focus lies in critical key steps of developing a potential new drug, encompassing hit identification, molecular design, synthesis, lead optimisation, and crucial *in vitro* and *in vivo* assays in drug discovery.

Annette Brandt

After completing her master's degree in molecular nutrition at the Friedrich-Schiller-University Jena, Germany, Annette did her PhD at the Department of Nutritional Sciences at University of Vienna and completed the PhD in 2020. During her PhD, she focused on possible modulators of intestinal barrier function in prevention of metabolic dysfunction-associated steatotic liver disease. Since 2020, she is working as a PostDoc at the Department of Nutritional Sciences focusing on the 'gut-brain' axis and its impact on ageing-associated cognitive and liver decline.

Gustavo Zaccaria Schaun

Gustavo is a postdoctoral researcher in the Department of Training Science with a strong academic expertise in the implementation of training trials to investigate the effects of physical exercise on neuromuscular and cardiorespiratory outcomes. He obtained his PhD in Sport Science from the Federal University of Pelotas (Brazil), during which he conducted research on how healthy and at-risk older adults respond to high-velocity resistance training. Gustavo's long-lasting interest in how our bodies respond to exercise at the molecular level also led him to expend a year of his PhD at the Centre for Exercise Medicine at the University of Alabama at Birmingham. Currently, Gustavo's research focus lies in understanding how different exercise modes can be leveraged to improve aging, ideally from the molecule to the individual level.

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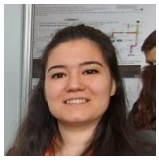
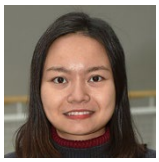
POSTER SESSIONS

Session A: *odd numbers*			
No.		**Name**	**Poster title**
1		**Aileen Prosche**	The cell physiological role of NORAD-PUMILIO axis in tissue homeostasis during aging
3		**Anna Magdalena Huber**	Generation of a human neuronal *in vitro* model for Rett Syndrome
5		**Björn Kadlubowski**	The influence of strength training of the knee extensors in combination with reactive strength training or strength training of the plantar flexors on speed and jump performance in youth elite soccer players
7		**Christian Fellinger**	Binding Affinity Prediction Based on GRAIL Maps
9		**Franziska Kromm**	Oral supplementation of melatonin attenuates the onset of Alcohol-Related Liver Disease
11		**Irem Duman**	Keeping an Eye on the Move: Tracking Cell Migration with Optical Imaging in 3D
13		**Julia Scholda**	The role of noncoding RNA NORAD in ER stress and the unfolded protein response
15		**Lukas Wimmer**	It's not only love that's in the air: Searching for a relationship between health and inhaled micro- and nanoplastics

17		**Michael Netzer**	Electrophysiological characterization of cardiac organoids
19		**Nejra Granulo**	Macrocycles as inhibitors of GLUT1 and GLUT4
21		**Peter Raidl**	Assessing Cardiac Vagal Activity: A Practical Approach to Determining Individualized Breathing Frequencies
23		**Rebecca Wagner-Kerschbaumer**	Forming conclusions despite complexity: judgment competence in the context of nutrition, health and consumer literacy
25		**Sabine Chmelar**	“Austrian Osteoarthritis Cuisine”: A new antiinflammatory diet for osteoarthritis
27		**Sarah Luise Stellnberger**	Comparative study of calculated and experimental pKa values to investigate effect on blood-brain permeability
29		**Thi Thuy Anh Nguyen**	The molecular mechanism of long non-coding RNA NORAD in cellular stress response pathways
31		**Victoria Sarne**	The role of KIF5B in the emergence of a skeletal dysplasia

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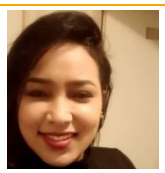
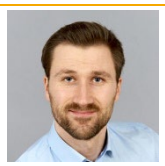
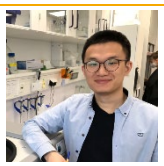
Session B: *even numbers*			
No.		**Name**	**Poster title**
2		**Anna Grabowski**	Identification of the cell type-specific molecular function of the NORAD-PUMILIO axis in aging
4		**Anna Maria Moitzi**	Increased DNA strand breaks were observed after acute aerobic exercise in endurance-trained men, however regular endurance training mitigates the exercise-induced damage
6		**Bozhidar Baltov**	Assay for evaluation of proarrhythmic effects of herbal products
8		**Christine Coffey**	Characterisation of the honokiol derivative, LRK071, as a dual specific RXR agonist and PDE4 inhibitor
10		**Haktan Övül Bozkir**	TNFα is a trigger of ‚inflammaging' and aging-associated liver decline in healthy aging mice
12		**Jacqueline Schwarzinger**	Can inhalation administration provide a therapeutic benefit in acute respiratory infections? Pharmacokinetic profiling of sanggenons from *Morus alba* root bark extracts
14		**Karin Grillberger**	A structure-based view on molecular initiating events (MIEs) related to developmental neurotoxicity (DNT)
16		**Martina Redl**	Integrating semi-automated tools for the rapid and sustainable detection of health-promoting natural products in *C. elegans*
18		**Namarig Abdelrahman**	Effect of topically applied bolalipid surfactants PC-C24-PC and PC-C32-PC on corneocyte cohesion
20		**Palle Steen Helmke**	Predicting liver related adverse events with systemic fingerprints

22		**Raphaela Staltner**	Acute intake of a sugar-sweetened beverage but not of apple spritzer is associated with postprandial endotoxemia in healthy young adults
24		**Roxane Jacob**	Predicting Sites of Metabolism with Graph Neural Networks
26		**Sara Tkaczyk**	Testing the stability of Neural Network Potentials for free energy calculations
28		**Sigrid Adelsberger**	Can inhalation administration provide a therapeutic benefit in acute respiratory infections? Analytical methods for quantitation of sanggenons from *Morus alba* root bark extracts
30		**Verena Schwingenschlögl-Maisetschläger**	Sterilized silk fibroin for biomedical application: Stability assessment and quality control
32		**Yunzhan Ning**	Ligand Development for Targeted Delivery to Murine Langerin

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POSTER EVALUATION @PHANUSPO RETREAT 2023

At the PhaNuSpo retreat 2023, ~30 students will present their poster (poster numbers from 1-~30). There will be two poster sessions (session A: odd numbers; session B: even numbers) with each having a time slot of one hour for the active presentation. The VDS PhaNuSpo offers 4 poster prizes. For each session there will be one poster prize (à 200€) and a runner-up poster (à 100€).

The aim of the poster session is to:

- Encourage scientific excellence
- Provide a space for developing communication and presentation skills for a wider audience
- Encourage young researchers to engage with their PhD topic
- Represent the diversity that exists within the PhaNuSpo

~4 Jury members per session (different background, different academic career, i.e., students and PIs) will judge the posters according to the following criteria:

- **Scientific content/Comprehensibility:** What is the scientific advancement and is this properly explained on the poster (even for those not familiar to this research field?) Are the objectives clearly explained/self-explanatory? Are the methods adequate? Are the conclusions justified?
- **Layout**: How well does the poster present the data (text, graphics, figures)? Are they clearly presented and in a logical order? Readability?
- **Oral presentation/discussion:** Is the presenter familiar with the topic? Are questions from the audience/jury members well addressed and explained by the presenter?

Session A - odd posters:
Presentation & evaluation on 18.9.2023, from 14:10 to 15:10, presenters are advised to be at their poster.

Session B - even posters:
Presentation & evaluation on 18.9.2023, from 15:10 to 16:10, presenters are advised to be at their poster.

Jury members of the poster sessions are asked to complete the scoring sheet (see next page) for each poster in the assigned session and to bring them to the meeting point immediately after each poster session.

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Spo	Daniela Caporossi: SAB	
--	Werner Gruber: Keynote Speaker	
--	Martin Böckle: Trainer	
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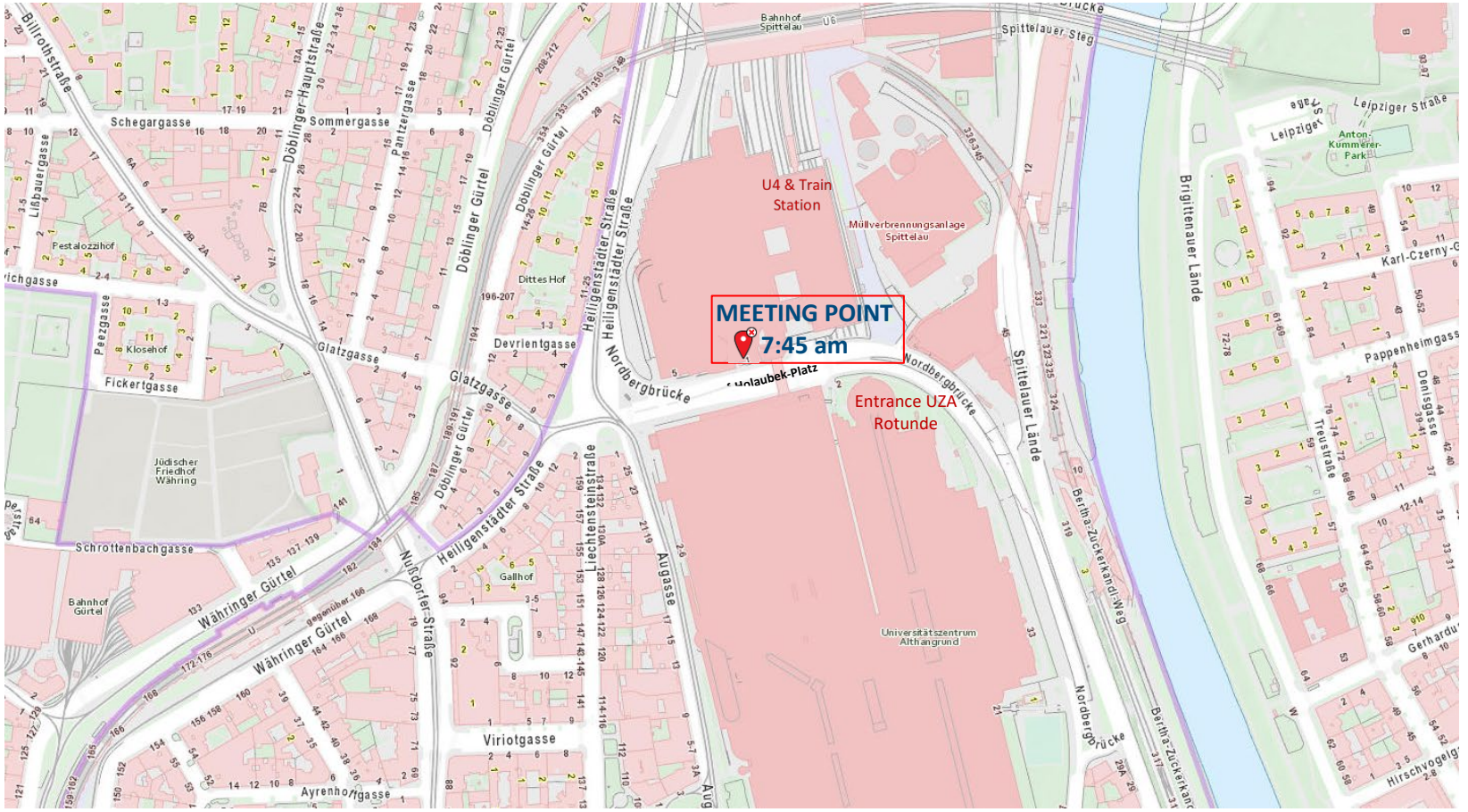
MEETING POINT: Departure in Vienna on 18 September 2023 at 8:45am.

The busses leave punctually at 8:00am



SÖCHAU Map:
Seminar-Hotel, Seminar-Room (=Kulturzentrum/Gemeindeamt) and other outdoor spaces