

FINAL PROGRAMME

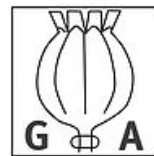


26th Scientific Congress of the Austrian Pharmaceutical Society (ÖPhG)



With a Pre-Symposium

Edelweiss - Phytochemical, Pharmacological and Clinical Evidence



University of Graz, Austria, 25 – 27 April 2019

<https://oephgraz-kongress.uni-graz.at>

<http://www.hmppa.at>

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ORGANIZATION

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Martin Schmid, Graz
Franz Bucar, Graz

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LOCAL ORGANIZING SECRETARIAT

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SCIENTIFIC ISSUES

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CONGRESS WEBSITES

<https://oephgraz-kongress.uni-graz.at>
<http://www.hmppa.at>

WELCOME

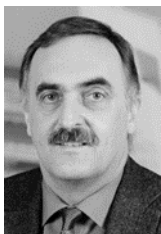
Dear Participants of the 26th Scientific Congress of the Austrian Pharmaceutical Society (ÖPhG)!

On behalf of the Organizing and Scientific Committees, it is our pleasure to welcome you to this scientific meeting at the University of Graz. It is organized by the Institute of Pharmaceutical Sciences on behalf of the Austrian Pharmaceutical Society (ÖPhG). This society was founded 40 years ago in 1979 by Prof. G. Heinisch and Prof. W. Kubelka. With more than 500 members, it is Austria's largest pharmaceutical society. One of the major goals of ÖPhG is to bring people together interested in scientific and practical aspects of pharmacy and to provide a platform for exchange of knowledge and experience.

Recent developments in pharmaceutical sciences will be presented and discussed during this meeting. The main scientific topics cover drug discovery & development, drug targeting, herbal medicines, human microbiota metabolism, molecular networking, pharmacogenomics. The congress will start with a pre-Symposium on the Medicinal Plant of the Year 2019: Edelweiss - Phytochemical, Pharmacological and Clinical Evidence, organized by Herbal Medicinal Products Platform Austria (HMPPA), and the Society for Medicinal Plant and Natural Product Research (GA).

Almost 90 participants from Austria and other European countries come together to have an inspiring meeting in the premises of the Departments of Pharmaceutical Chemistry and Pharmaceutical Technology. Scientific contributions which are presented during this conference indicate a clear tendency that current research in pharmaceutical sciences cannot be attributed anymore to a single core subject like pharmaceutical chemistry, pharmacology, pharmacognosy or pharmaceutical technology, but are rather in favor of an interdisciplinary approach.

We are grateful to all people who were involved in organization and preparation of this congress for their great engagement. We are also grateful to the University of Graz for providing the meeting place and infrastructure, and the sponsors for their financial support. We hope that the programme of this congress will meet your expectations and that you will enjoy your stay in Graz!



A handwritten signature in cursive script, appearing to read 'Franz Bucar'.

Franz Bucar
Chairman



A handwritten signature in cursive script, appearing to read 'Dr. Martin Schmid'.

Martin Schmid
Chairman

CONGRESS VENUE, REGISTRATION & INSTRUCTIONS

CONGRESS VENUE

25 April 2019: Edelweiss Symposium

Seminar room SR 03.K1, University of Graz, Universitätsplatz 1, 8010 Graz

25 – 27 April 2019: ÖPhG Congress

Institute of Pharmaceutical Sciences, University of Graz, Lecture hall 03.01, Universitätsplatz 1, 8010 Graz (main entrance Schubertstraße 1)

HOW TO REACH THE CONFERENCE VENUE BY PUBLIC TRANSPORT?

The University of Graz can be reached by several busses:

From the main railway station (“Hauptbahnhof”) to the meeting venue by

- ❖ bus no. 63 (stop “Universität” or “Uni-Mensa”)
- ❖ bus no. 58 (stop “Mozartgasse”)

From Jakominiplatz to the meeting venue by

- ❖ bus no. 31 (stop “Uni-Mensa”)
- ❖ bus no. 30 (stop “Mozartgasse”)

For the City of Graz area (Zone 101) tickets for 1 hr (€2,40), 24 hrs (€5,30) or a special ticket for 3 days (€12,40; including reduced entrance fees to some tourist attractions) are available. Tickets can be obtained in trams and busses (1 hr and 24 hrs), the ticket for 3 days at the Spar store at Graz railway station or at Graz airport, at hotels and at the vending machines in trams.

REGISTRATION AND INFORMATION DESK, OPENING HOURS

25 April 2019: 9:30 – 18:30, University of Graz, Universitätsplatz 1, Ground floor (main entrance at Schubertstraße 1)

26 April 2019: 08:15 – 16:30, Universitätsplatz 1, Ground floor

27 April 2019: 08:15 – 13:00, Universitätsplatz 1, Ground floor

INSTRUCTIONS FOR

❖ ORAL CONTRIBUTIONS

Plenary lectures are scheduled for 40 minutes, short lectures for 10 minutes, both plus 5 minutes for discussion. PC and beamer are available. Please contact the registration desk to deliver your Power Point presentation at latest in the morning of the day your presentation is scheduled.

❖ POSTER PRESENTATIONS

Posters (max. 90 x 120 cm (width x height)) will be on display on 26 – 27 April 2019. Posters should be mounted on 26 April 2019, before the morning session and be removed after the closing session on 27 April 2019. Participants are responsible for mounting their posters and removing them. The organizers will provide the necessary material to fix the posters. The poster numbers are indicated in the list of poster

presentations in the final programme. Presenting authors are requested to be present at their posters during the Poster Session on Friday, 26 April 2019, 16:30 – 18:00.

❖ AWARDS FOR BEST ORAL AND POSTER PRESENTATION

Two prizes for best oral and poster presentation will be selected by a jury and awarded during the closing ceremony. In order to receive an award it is obligatory that a member of the presenting group is present at the award ceremony.

❖ WELCOME RECEPTION

The Welcome Reception will be hosted by the Governor of Styria and will take place at the Orangery, Burggarten (8010 Graz, Hofgasse 15), on Thursday, 25 April 2019, 19:30. Registration for the Welcome Reception is necessary. A bus transfer will take the participants to the venue of the reception, a shuttle bus will depart at 19:00 at bus stop “Uni Mensa”, Leechgasse, close to main entrance Schubertstraße 1).

❖ CONGRESS DINNER & RECEPTION BY THE MAYOR OF GRAZ

The congress dinner will take place at the restaurant “Purberg” (located in the Hilmteichschlössl, Hilmteichstraße 70, 8010 Graz) on Friday, 26 April 2019, 19:00. The restaurant is in walking distance of the congress venue (20 min), no bus transfer will be provided. The congress dinner will start with a reception by the Mayor of Graz at the restaurant “Purberg” at 19:00.

❖ INTERNET ACCESS

A computer with internet access and a printer will be provided at the registration area. Detailed information regarding log-in will be provided on-site.

WLAN will be available free of charge at the congress site, access at „UniGrazTagung“, no password required.

❖ CITY WALK

A guided city walk to courtyards of Graz will be offered at the end of the congress, the tour lasts for about 2 hrs. The tour will be guided in German.

City walk “Courtyards of Graz”, Saturday 27 April 2019 at 14:00, meeting point at the registration desk. A tour to hidden spots or representative splendor plants, cozy arcades or meditative retreats

❖ CONGRESS WEBSITE

Information on the congress is also available at
<https://oephgraz-kongress.uni-graz.at>

GENERAL INFORMATIONS

LANGUAGE

Plenary lectures can be held in German or English, for short lectures and poster presentations English language is obligatory. No simultaneous translation will be provided.

REGISTRATION FEES

The registration fee covers the welcome reception, coffee and tea during the coffee breaks, admission to the scientific sessions and conference material including a copy of the Final Programme & Book of Abstracts, and the congress dinner.

	Until 4 March, 2019	From 5 March, 2019
Members of ÖPhG	180,00 Euros	200,00 Euros
Non-Members	210,00 Euros	240,00 Euros
Students*	100,00 Euros	120,00 Euros
Student* Members of ÖPhG	80,00 Euros	100,00 Euros
Accompanying Persons**	90,00 Euros	110,00 Euros

*In order to claim the student registration fee proof of full time enrolment at University or College must be provided at the registration desk.

** Fee includes the welcome reception and the congress dinner.

BADGES

Badges will be issued to all registered participants and enable access to all scientific sessions except for accompanying persons.

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be given to all registered participants during the congress.

MEMBERSHIP OF THE AUSTRIAN PHARMACEUTICAL SOCIETY (ÖPHG)

Application for membership of the organizing society, ÖPhG, can be found at <https://oephg.eu/mitgliedschaft>

IMPORTANT LINKS

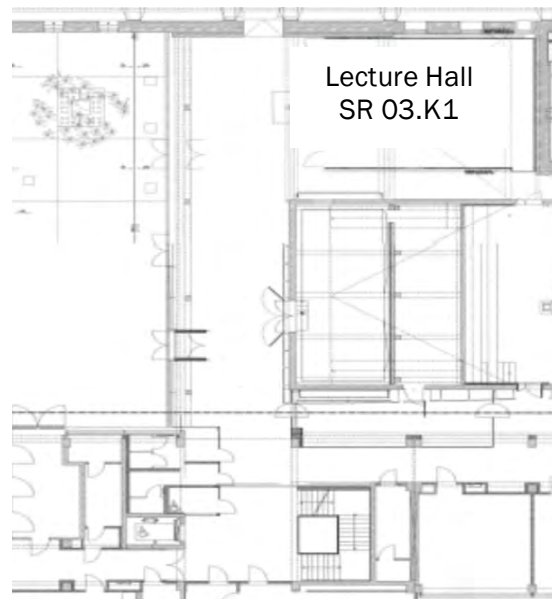
- ❖ City of Graz (including interactive city map): www.graz.at
- ❖ University of Graz: www.uni-graz.at
- ❖ Tourist office of Graz: www.graztourismus.at
- ❖ Public transport in Graz (“Graz Linien”): www.holding-graz.at/linien.html

LIABILITY

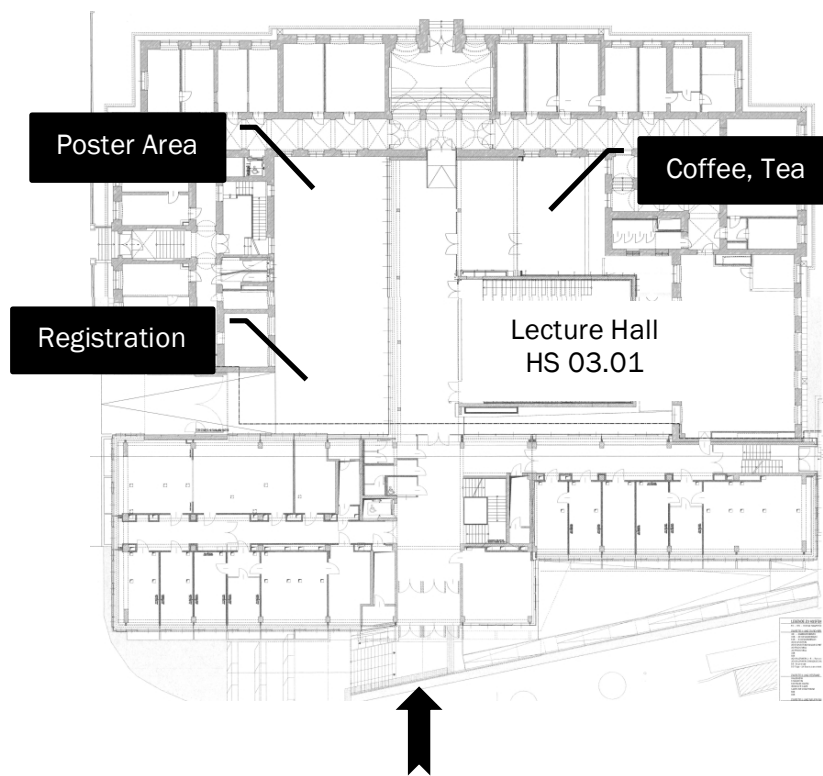
The congress organizers cannot be held responsible for any loss, theft, damage or injury to any person or property during the congress, whatever the cause may be. The liability of persons and enterprises providing means of transportation or other services, however, remains unaffected. The customers take part in the tour at their own risks. The organizers reserve the right to cancel the city walk in case of insufficient booking.

MAPS OF LECTURE HALLS & POSTER AREA

Universitätsplatz 1, Basement



Universitätsplatz 1, Ground floor



Main entrance, Schubertstraße 1

PROGRAMME AT A GLANCE

	Thu April 25, 2019	Fri April 26, 2019	Sat April 27, 2019	
Time		Lecture hall HS 03.01	Lecture hall HS 03.01	
08:15 - 08:30		08:15 - 16:30 Registration	08:15 - 13:00 Registration	
08:30 - 08:45		PL 02 Wolfender	PL 04 Moissl-Eichinger	
08:45 - 09:00				
09:00 - 09:15				
09:15 - 09:30				
09:30 - 09:45	09:30 - 18:30 Registration Universitätsplatz 1			SL 01 Mayr
09:45 - 10:00		SL 02 Akram	SL 14 Thi Tran	
10:00 - 10:15		SL 03 Pompermaier	SL 15 Cruz-Rubio	
10:15 - 10:30		SL 04 Solnier	SL 16 Fladerer	
10:30 - 10:45		Coffee Break	SL 17 Kirchweger	
10:45 - 11:00		Coffee Break	Coffee Break	
11:00 - 11:15			KL 01 Lämmerhofer	KL 02 Borchard
11:15 - 11:30		SL 05 Hochegger	SL 18 Tetyczka	
11:30 - 11:45		SL 06 Bäcker		
11:45 - 12:00		SL 07 Ujantari	SL 19 Schönemann	
12:00 - 12:15		SL 08 Pirker	SL 20 Göls	
12:15 - 12:30	HMPPA Pre-Symposium "Edelweiss - Phytochemical, Pharmacological and Clinical Evidence" Seminar room SR 03.K1	Break	PL 05 Göpferich	
12:30 - 12:45				
12:45 - 13:00				
13:00 - 13:15				
13:15 - 13:30				
13:30 - 13:45				
13:45 - 14:00			Closing Session	
14:00 - 14:15				
14:15 - 14:30			Guided City Walk Meeting Point: Registration Desk	
14:30 - 14:45		PL 03 Samwald		
14:45 - 15:00				
15:00 - 15:15		SL 09 Haas		
15:15 - 15:30		SL 10 Pum		
15:30 - 15:45	SL 11 Ardelt			
15:45 - 16:00	SL 12 Meßner			
16:00 - 16:15	Break	Coffee Break		
16:15 - 16:30				
16:30 - 16:45				
16:45 - 17:00				
17:00 - 17:15	Opening Session Lecture hall HS 03.01	Poster Session		
17:15 - 17:30				
17:30 - 17:45				
17:45 - 18:00	PL 01 Laufer			
18:00 - 18:15				
18:15 - 18:30				
18:30 - 18:45				
18:45 - 19:00				
19:00	Bus transfer („Uni Mensa“)			
		Congress Dinner Restaurant „Purberg“		
19:30 - 21:00	Welcome Reception Orangery, Grazer Burg			
21:00 - 22:00				

SCIENTIFIC PROGRAMME

Thursday, 25 April 2019

Symposium: Edelweiss - Phytochemical, Pharmacological and Clinical Evidence

Seminar room SR 03.K1

09:30 – 10:00 Registration

10:00 10:05	-	WELCOME Univ.-Prof. Dr. Hermann STUPPNER , HMPPA President <i>Institute of Pharmacy, Pharmacognosy, University of Innsbruck, Austria</i> Univ.-Prof. Dr. Anna-Rita BILIA , GA President <i>Department of Chemistry "Ugo Schiff", University of Florence, Italy</i>
10:05 10:10	-	INTRODUCTION emer. O. Univ. Prof. Dr. Chlodwig FRANZ , HMPPA Vice-President <i>University of Veterinary Medicine, Vienna, Austria</i>
10:10 10:45	-	BREEDING AND CULTIVATION OF THE ALPINE PLANT EDELWEISS IN SWITZERLAND Xavier SIMONNET <i>Mediplant, Conthey, Switzerland</i>
10:45 11:00	-	IN VITRO CULTIVATION OF EDELWEISS Ass. Prof. Dr. Christoph WAWROSCH <i>Department of Pharmacognosy, University of Vienna, Austria</i>
11:00 11:35	-	THE PHYTOCHEMISTRY OF LEONTOPODIUM Dr. Stefan SCHWAIGER <i>Pharmacognosy, University of Innsbruck, Austria</i>
11:35 12:10	-	TWO-DIMENSIONAL PREPARATIVE CHROMATOGRAPHY FOR THE PURIFICATION OF PHENYLPROPANOIDS FROM EDELWEISS EXTRACTS Dr. Karine FAURE <i>Institute of Analytical Sciences, CNRS-ENS-University of Lyon, France</i>
12:10 13:45	-	Lunch
13:45 14:20	-	BIOPROSPECTING ENDOPHYTES FROM <i>LEONTOPODIUM NIVALE</i> SUBSP. <i>ALPINUM</i> Dr. Martina OBERHOFER <i>Department of Pharmacognosy, University of Vienna, Austria</i>
14:20 14:55	-	ACTIVE SUBSTANCES OF EDELWEISS FOR SKIN HEALTH: FROM MOLECULAR MECHANISMS TO FUNCTIONAL COSMETICS Prof. Dr. Liudmila KORKINA <i>Centre of Innovative Biotechnological Investigations (CIBI-NANOLAB), Moscow, Russia</i>
14:55 15:10	-	MARKET OPPURTUNITIES FOR NATURALS - SUCCESS STORY EDELWEISS Dr. Julia MOESSLACHER <i>CURA-Marketing GmbH, Innsbruck, Austria</i>
15:10 15:45	-	EDELWEISS CONSTITUENTS IN CARDIOVASCULAR MEDICINE Assoc.-Prof. Priv.-Doz. Dr. David BERNHARD <i>Center for Medical Research, Johannes Kepler University Linz, Austria</i>
15:45 16:00	-	SUMMARY CLOSING REMARKS Univ.-Prof.i.R.Dr.Dr.h.c. Brigitte KOPP , HMPPA Vice-President <i>Department of Pharmacognosy, University of Vienna, Austria</i>

Thursday, 25 April 2019
26th Scientific Congress of ÖPhG

- 09:30 – 18:30 Registration
(Reception area/Foyer, University of Graz, Universitätsplatz 1,
main entrance Schuberstraße 1)
- 17:00 – 18:30 Opening session
Lecture hall HS 03.01
- 17:00 Opening of the congress by the President of the Austrian Pharmaceutical
Society (ÖPhG), O. Univ.-Prof. Dr. Helmut Viernstein
- Welcome addresses
- Univ.-Prof. Dr. Martin Polaschek
 Vice-Rector for Studies and Teaching, University of Graz
- Univ.-Prof. Dr. Gerrit Borchard
 President of the Swiss Society of Pharmaceutical Sciences (SSPhS)
- Univ.-Prof. Dr. Dezsö Csupor
 President of the Medicinal Plant Section of the Hungarian Society of
Pharmaceutical Sciences
- Univ.-Prof. Dr. Stefan Laufer
 President of the German Pharmaceutical Society (DPhG)
- Mag. pharm. Matjaž Tuš
 President of the Slovenian Pharmaceutical Society (SFD)
- Mag. pharm. Dr. Gerhard Kobinger
 Vice-President of the Austrian Chamber of Pharmacists, President of the
Regional Office of Styria
- 17:45 Plenary Lecture PL 01
Stefan Laufer (Tübingen)
Akademische Wirkstoffentwicklung - Fiction, Fantasie oder Wirklichkeit
- 19:00 Shuttle bus to Welcome Reception; bus stop (“Uni Mensa”, Leechgasse) in
front of the congress venue (exit Schubertstrasse 1)
- 19:30 – 21:00 Welcome Reception hosted by the Governor of Styria,
Hermann Schützenhöfer
- Orangery, Burggarten, Hofgasse 15, 8010 Graz

Friday, 26 April 2019

- 08:15 – 16:30 Registration
Universitätsplatz 1, Ground floor
- 08:30 – 10:15 Scientific session A
Lecture hall HS 03.01, Universitätsplatz 1
- 08:30 Chairs: Verena Dirsch (Wien), Sonja Sturm (Innsbruck)
- Plenary lecture PL 02
Jean-Luc Wolfender (University of Geneva, Switzerland)
Change of paradigm in pharmacognosy - prioritization of bioactive natural products using massive and detailed deep metabolome data of extract libraries
- 09:15 SL 01
Fabian Mayr
Establishing dihydrochalcones as new lead structures using a combined in-silico target prediction workflow
- 09:30 SL 02
Muhammad Akram
Identification of the fungicide epoxiconazole by virtual screening and biological assessment as inhibitor of human 11 β -hydroxylase and aldosterone synthase
- 09:45 SL 03
Luca Pompermaier
Structure elucidation of a new highly oxygenated ellagitannin-dihydrochalcone from *Thonningia sanguinea* VAHL
- 10:00 SL 04
Julia Solnier
Impact of herbal substances on efflux pumps in bacterial and human cells
- 10:15 – 10:45 Coffee break

- 10:45 – 12:15 Scientific session B
Lecture hall HS 03.01, Universitätsplatz 1
- Chairs: Ronald Gust (Innsbruck), Jean-Luc Wolfender (Geneva)
- 10:45 KL 01
Michael Lämmerhofer
Potential and applications of multidimensional liquid chromatography in pharmaceutical analysis
- 11:15 SL 05
Patrick Hochegger
Synthesis and structure–activity relationships of new 6-fluoroquinoline derivatives with antiplasmodial activity
- 11:30 SL 06
Daniel Baecker
Induction of ferroptosis in leukemia cells exerted by chlorido[N,N'-disalicylidene-1,2-phenylenediamine]iron(III) complexes
- 11:45 SL 07
Navista Sri Octa Ujjantari
Comparison of the 3D structures of β -adrenergic receptors and the binding modes of agonists
- 12:00 SL 08
Pirker Teresa
Effects of β -damascenone on NF- κ B mediated inflammatory response
- 12:15 – 14:15 Break
- 14:15 – 16:00 Scientific session C
Lecture hall, HS 03.01, Universitätsplatz 1
- Chairs: Rosa Lemmens-Gruber (Vienna); Thierry Langer (Vienna)
- 14:15 Plenary lecture PL 03
Matthias Samwald (Medical University Vienna)
Implementing pharmacogenomics decision support across Europe: The Ubiquitous Pharmacogenomics (U-PGx) Project
- 15:00 SL 09
Eva Haas
Drug-related problems and pharmaceutical recommendations identified in a pre-admission clinic at a large university teaching hospital

- 15:15 SL 10
Alexandra Pum
Investigating the role of GAGs in eotaxin-3 mediated eosinophilic cell migration
- 15:30 SL 11
Maximilian A. Ardel
Cdk5 Inhibition - The Key to Enhancing the Standard of Care in Hepatocellular Carcinoma Treatment
- 15:45 SL 12
Martina Meßner
Diamonds in the rough - with low application antibiotics against tumor relapse of sorafenib-resistant hepatocellular carcinoma
- 16:00 – 16:30 Coffee break (sponsored by Österreichische Apothekerkammer)
- 16:30 – 18:00 **Poster session**
Presenting authors are kindly requested to be available at their posters
- 19:00 **Reception by the Mayor of Graz & Congress dinner**
Restaurant “Purberg”, Hilmteichschlössl, Hilmteichstraße 70,
8010 Graz

Saturday, 27 April 2019

- 08:15 – 13:00 Registration
Universitätsplatz 1, Ground floor
- 08:30 – 10:30 Scientific session D
Lecture hall HS 03.01, Universitätsplatz 1
- Chairs: Hermann Stuppner (Innsbruck); Sabine Glasl-Tazreiter (Vienna)
- 08:30 Plenary lecture PL 04
Christine Moissl-Eichinger (Medical University Graz)
Pharmacomicrobiomics: drugs meet the human microbiome
- 09:15 SL 13
Eva-Maria Pferschy-Wenzig
Metabolization of milk thistle flavonolignans by human fecal microbiota *in vitro*
- 09:30 SL 14
Huyen Thi Tran
Anti-inflammatory and antiproliferative compounds from *Sphaeranthus africanus*
- 09:45 SL 15
José Manuel Cruz-Rubio
The prebiotic potential and molecular dimensions of oligosaccharides of mucilages from *Opuntia ficus-indica* and *Opuntia xocconostle*
- 10:00 SL 16
Johannes-Paul Fladerer
Cuticular hydrocarbons in the symbiosis of leafcutter ants and antimicrobial-producing bacteria
- 10:15 SL 17
Benjamin Kirchweger
***Caenorhabditis elegans* as model to study natural products affecting metabolism and lifespan**
- 10:30 – 11:00 Coffee break

- 11:00 – 13:00 Scientific session E
Lecture hall HS 03.01, Universitätsplatz 1
- Chairs: Eva Roblegg (Graz); Helmut Vierstein (Vienna)
- 11:00 KL 02
Gerrit Borchard (University of Geneva, Switzerland)
Increasing mucosal permeability using short peptide inhibitors of protein kinase C zeta
- 11:30 SL 18
Carolin Tetyczka
Encapsulation of D-limonene into nanostructured lipid carriers
- 11:45 SL 19
Magdalena S. Schönemann
Insights into lactose properties with high-throughput moisture sorption analysis
- 12:00 SL 20
Thomas Göls
Wound healing properties of Norway spruce balm
- 12:15 Plenary lecture PL 06
Achim Göpferich (University Regensburg, Germany)
The limits of drug targeting and how to go beyond
- 13:00 – 13:30 Closing session
Best poster & oral presentation awards
ÖPhG Diploma thesis awards
- 14:00 – 16:00 Guided city walk “**Courtyards of Graz**”, Meeting point: Registration desk

ACKNOWLEDGEMENTS

UNIVERSITÄT GRAZ
UNIVERSITY OF GRAZ



Österreichische
Apothekerkammer

