



**1st Annual Meeting of the
Austrian Association of Molecular
Life Sciences and Biotechnology
(ÖGMBT)**

Innsbruck

September 21st – 23rd 2009

PROGRAM
and
ABSTRACTS

General Information

Venue: Building of the Theoretical Medical Institutes, Innsbruck Medical University, Fritz-Pregl-Straße 3

Lectures: Lecture Hall B, first lower level

Posters: Rooms 0121 and 0122 and foyer, first lower level

Industry exhibition: first and second lower level

Presentations: Talks:

The lecture hall is equipped with a beamer for PowerPoint presentations, a blackboard and loudspeakers. Speakers are kindly asked to store their PowerPoint presentations on a CD or USB-stick, preferentially compatible with Windows, and submit the file at the registration desk at least 2 hours before the presentation. If you require a Mac for your presentation you are strongly encouraged to bring your own laptop.

Posters:

All posters are on display throughout the meeting and poster viewing starts at 9:45. Presenters are encouraged to be at their posters during coffee and lunch breaks. Poster boards have a size of 90x120 cm. Pins for poster mounting will be available in the poster presentation rooms.

Language: English

Presentation Prices: The best oral presentation and the two best posters will be selected by a prize committee for prizes sponsored by the ÖGMBT.

Conference Fritz-Pregl-Straße 3, entrance area

Office: Sunday, September 20 th	16:00 - 19:00
Monday, September 21 st	07:30 - 19:00
Tuesday, September 22 nd	08:00 - 17:00
Wednesday, September 23 rd	08:00 - 12:00

Bank Account: ÖGMBT, Bank Austria 50670 034 323 bank code (BLZ) 12000
IBAN: AT75 1200 0506 7003 4323, BIC: BKAUATWW

REGISTRATION FEES:

	Before Aug. 20th	After Aug. 20th
Members of ÖGMBT	€ 45,--	€ 55,--
Non-members	€ 67,--	€ 75,--
Student members of ÖGMBT	free	free
Student Non-members, technicians and unemployed scientists	€ 31,--	€ 41,--

Organizing Committee: B. Auer, H. Grunicke, L. Hengst, J. Hofman, A. Hüttenhofer, H. Klocker, R. Schneider, J. Troppmair

Impressum: ÖGMBT, for the organizing committee:
Jakob Troppmair, Daniel-Swarovski Research Laboratory (DSL),
Department of Visceral-, Transplant- and Thoracic Surgery, Medical University of
Innsbruck
Innrain 66/6, A-6020 Innsbruck, Austria
P: +43 512 504 27819, F: +43 512 504 24625, E: jakob.troppmair@i-med.ac.at

Acknowledgements

The generous support of the following institutions and companies is acknowledged:

Abbott Labs

Agowa GmbH

AL-Labortechnik

Amt der Tiroler Landesregierung, Abteilung Kultur

Applied Biosystems

Biozym Scientific GmbH

Charles River

Eubio

Febit Holding GmbH

Fermentas GmbH

GenXpress

Karl Ohrfandl – Laborgeräte

Millipore Corporation

Qiagen GmbH

Sigma-Aldrich

Springer Verlag

Stadt Innsbruck

Szabo-Scandic Handelsgesellschaft mbH

THP Medical Products

VWR International

SOLID3

YOUR TRANSCRIPTOME ANALYSIS
EMPOWERED

The SOLiD™ 3 System empowers you to discover new insights into gene regulation. With a hypothesis-generating, highly-sensitive assay that preserves the strand information of the original RNA molecule, the SOLiD 3 System enables you to detect novel transcripts, including non-coding RNA and distinguish strand-specific expression patterns. The combination of 400 million sequence tags and sample multiplexing capabilities allows for cost effective analysis of multiple samples in a single run while maintaining the sensitivity to detect low abundance transcripts. Combined with the SOLiD Small RNA Expression Kits, Whole Transcriptome Analysis Kits and application specific data analysis tools, the SOLiD 3 System provides a comprehensive solution that takes you from RNA to results.

For more SOLID PROOF, visit solid.appliedbiosystems.com

For Research Use Only. Not for use in diagnostic procedures.
© 2009 Applied Biosystems. Applied Biosystems, and AB (Design) are registered trademarks and SOLiD is a trademark of Applied Biosystems or its subsidiaries in the US and/or certain other countries. All other trademarks are the sole property of their respective owners.

AB Applied
Biosystems

Important locations



- ① Meeting site
- ② University Main Building ("Aula")
- ③ Central Train station
- ④ Old Town
- ⑤ Airport

Monday, September 21st

Welcome and Opening

8:30 – 9:00

Opening Ceremony

Tilmann Märk, Vice-Rector, University of Innsbruck
Norbert Mutz, Vice-Rector, Innsbruck Medical University
Hans Grunicke, President ÖGMBT

Moderation: Jakob Troppmair, head of the organizing committee

Plenary Lecture 1: Neurogenetics

Chairperson: Christine Bandtlow

9:00 – 9:45

Herbert Herzog, Gravan Institute of Medical Research, Sydney
The role of NPY in health and disease: Insights from transgenic and KO models

9:45 – 10:15

Coffee Break and Begin Poster Viewing

10:15 – 10:45

Award Ceremony ÖGMBT-VWR/THP Research Awards

Chairperson: Hans Grunicke

Nikolaus Bernhard Binder: **Estrogen-dependent and C-C chemokine receptor-2- dependent pathways determine osteoclast behavior in osteoporosis**

Johann Ch. Holzmann: **RNase P without RNA: Identification and functional reconstitution of the human mitochondrial tRNA processing enzyme**

Short talks 1: Cancer and Signaling

Chairpersons: Carmen Birchmaier/Helmut Klocker

10:45 – 11:00

ST1. Genes involved in androgen synthesis and metabolism and the risk for prostate cancer

Demichelis F¹, Setlur SR², Hossain RR¹, Chen CX¹, Van Doren VE¹, Stenzel B³, Steiner E³, Oldridge D¹, Kata-bayashi N¹, Ha JS², Chen JY, Horninger, W³, Schäfer G³, Lee C², Rubin MA¹, Klocker H³

¹Dep. of Pathology and Laboratory Medicine and Inst. for Computational Biomedicine, Weill Cornell Medical College, New York; ²Dep. of Pathology, Brigham & Women's Hospital, Harvard Medical School, Boston; ³Dep. of Urology, Innsbruck Medical University, Innsbruck.

- 11:00 – 11:15 **ST2. Identification of functional modules in prostate cancer using an integrated approach**
Kamburov A¹, Pentchev K¹, Lehrach H¹, Klocker H², Sültmann H³, Herwig R¹
¹Max Planck Institute for Molecular Genetics, Berlin, ²Medical University Innsbruck, ³German Cancer Research Centre, Heidelberg, Germany.
- 11:15 – 11:30 **ST3. Co-operation of the Ewing's sarcoma fusion oncogene EWS-FLI1 and E2F transcription factors**
Schwentner R¹, Kauer M¹, Bilke S², Jug. G¹, Walker B², Meltzer PS² and Kovar H¹.
¹St. Anna Kinderkrebsforschung, Children's Cancer Research Institute, Zimmermannplatz 10, 1090 Vienna, Austria; ²National Cancer Institute, 37 Convent Drive, Bethesda, MD 20892, USA
- 11:30 – 11:45 **ST4. Evolutionary conserved crosstalk of GPCR signaling cascades involving protein kinase A**
Stefan E.^{1,2}, Malleshaiah M.², Bister K.¹ and Michnick S.W.² ¹Institute of Biochemistry and CMBI, University of Innsbruck, Austria; ²Institute of Biochemistry, Université de Montréal, Canada
- 11:45 – 12:00 **ST5. STAT5 regulates cellular iron uptake of erythroid cells via IRP-2 AND TFR-1**
Kerenyi, M, Grebien, F, Schifrer, M, and Müllner, EW;
Max F Perutz Laboratories, Department of Medical Biochemistry, Medical University of Vienna, Austria

12:00 – 13:30 **Poster Viewing and Lunch**

12:00 **ÖGMBT Board Meeting**
Room 522

13:15 – 14:00 **Charles River presentation:** Continuous infusion in laboratory animals during in vivo bioluminescence imaging (**Hörsaal 3**)

13:30 – 14:00 **Press Release Price Dialog Gentechnik**

Special Symposium 1: Cancer and signaling

Chairpersons: Lukas Huber/Gottfried Baier

- 14:00 – 14:30 **Caterina La Porta**, University of Milan, Department of Biomolecular Science and Biotechnology, Milan
Cancer stem cells: a lesson from melanoma
- 14:30 – 15:00 **Nisar Malek**, Hannover Medical School, Department of Gastroenterology, Hepatology and Endocrinology, Hannover
Differentiation-induced stem cell senescence is a tumor suppressor mechanism
- 15:00 – 15:30 **Michael Leitges**, Biotechnology Center of Oslo, University of Oslo, Oslo
Roles of individual Protein Kinase C isoforms during tumorigenesis
- 15:30 – 16:00 **Carmen Birchmeier**, Max-Delbück Center for Molecular Medicine, Berlin
Nrg1/ErbB signaling in development and function of the nervous system

16:00 – 17:00 **Coffee Break and Poster Viewing**

Plenary Lecture 2: Cancer and Signaling

Chairperson: Reinhard Kofler

- 17:00 – 17:45 **Patrick Baeuerle**, Micromet, Munich
Cancer Therapy by T Cell-engaging Antibodies

18:00 – 19:00 **General Assemblies (ÖGMBT/OGBM, ÖGGGT)**
Lecture Hall B

19:00 **Wine tasting**
Company exhibition: Theoretical Medical Institutes, Fritz Pregl. Str. 3, Congress Venue

All participants are kindly invited to spend a good and informative time with our exhibitors. Beverages and food are provided.

08:30 – 09:00 **Educational 1**
Ludger Hengst, Innsbruck
Restriction Point Control and Cell Proliferation

Plenary Lecture 3: Cancer

Chairperson: Ludger Hengst

09:00 – 09:45 **Eduardo Moreno**, Spanish National Cancer Research Center, Madrid
The competitive nature of cells

09:45 - 10:15 **Coffee Break and Begin Poster Viewing**

10:15 – 10:45 **Award Ceremony: ÖGMBT Best Thesis Awards**

Chairperson: Hans Grunicke

Oliver Spadiut: **Pyranose 2-oxidase: Playground for enzyme evolution**

Nina Wressnigg: **Influenza B NS1 Truncation Mutants: A live attenuated vaccine approach**

Short talks 2: Signaling/Transcription-Translation, Aging

Chairpersons: Johannes Grillari/Ulf R. Rapp

10:45 – 11:00 **ST6. Molecular characterization of the orphan cyclin dependent kinase PCTAIRE-1**

Mikolcevic P.¹, Sigl R¹, Sohm B¹, Pfaller K², Hess M² and Geley S¹.

¹*Division of Molecular Pathophysiology, Biocenter, ²Department of Anatomy, Histology and Embryology, Medical University of Innsbruck, Innsbruck, Austria.*

11:00 – 11:15 **ST7. EF-G GTPase Activation on the Ribosome – Who Pulls the Trigger?**

Clementi N.¹, Chirkova A.¹, Puffer B.², Micura R.² and Polacek N.¹

¹*Innsbruck Biocenter, Medical University Innsbruck, Division of Genomics and RNomics, Austria*

²*Institute of Organic Chemistry, Center for Molecular Biosciences, University of Innsbruck, Austria*

11:15 – 11:30 **ST8. Exo70, a subunit of the exocyst complex, is involved in pre-mRNA splicing**

Dellago H.¹, Löscher M.¹, Ajuh P.², Ryder U.², Kaisermayer C.¹, Grillari-Voglauer R.¹, Fortschegger K.¹, Gross S.¹, Borth N.¹, Eisenhaber F.³, Lamond A.I.², Katinger H.¹ and Grillari J.¹

¹*University of Natural Resources and Applied Life Sciences, Vienna, ²University of*

Dundee, Scotland, ³Institute of Molecular Pathology, Vienna, Austria

11:30 – 11:45 **ST9. Age-associated Functional Variances and Changes in Stemness of Human Mesenchymal Stem Cells**
Lepperdinger G.
Institute for Biomedical Aging Research, Austrian Academy of Sciences, Rennweg 10, A-6020 Innsbruck

11:45 – 12:00 **ST10. The novel protein Nopsi elongates the life span of model organisms**
Schossener M., Minois N.¹, Linder A., Wilson, I., Sekot G., Wurzenberger J., Katinger H., Grillari R., Grillari J.
University of Natural Resources and Applied Life Sciences, Muthgasse 18, 1190 Vienna, Austria. ¹*School of Biology, Brae House, University of St Andrews, St Andrews, Fife, KY16 9TH Scotland*

12:00 – 13:30 **Poster Viewing and Lunch**

13:30 – 14:00 **Educational 2**
Pidder Jansen-Dürr, Innsbruck
Molecular Mechanisms of Ageing: Models, Facts and Questions

Special Symposium: Aging

Chairpersons: Georg Wick/Pidder Jansen-Dürr

14:00 – 14:30 **Johannes Grillari**, Institute of Applied Microbiology, Vienna
From cellular senescence to organismal aging: novel players in the regulation of longevity

14:30 – 15:00 **Frank Madeo**, Institute for Molecular Biology, Graz
Inhibition of necrosis promotes longevity

15:00 – 15:30 **Placido Navas**, Universidad de Sevilla, Sevilla
Coenzyme Q in aging: a key factor in respiratory metabolism

15:30 – 16:00 **Aleksandra Trifunovic**, Department of Laboratory Medicine, Division of Metabolic Diseases Novum, Karolinska Institut, Stockholm
cancelled

16:00 – 17:00 **Coffee Break and Poster Viewing**

17:00 – 18:00 **FEBS Award Lecture**
Chair: Jakob Troppmair
Ulf R Rapp, Würzburg
RAF Kinase Signaling in Cancer

18:00 – 19:00

**Welcome Reception by the City of Innsbruck and the Province of Tyrol
Aula, Main University Building 1st floor, Christoph-Probst Platz**
(see map)

All participants are invited to attend this reception. Beverages and food will be served. An invitation is included in your congress package.

08:30 – 09.00 **Educational 3**
Alexandra Lusser, Innsbruck
Chromatin and Transcription Regulation

Plenary Lecture 4: Systems Biology

Chairperson: Bernhard Auer

09:00 – 09.45 **Vassilij Hatzimanikatis**, Institut des Sciences et Ingénierie Chimiques,
Lausanne
The Systems Engineering of Systems Bio/Technology

09:45 – 10:15 **Coffee Break**

Short Talks 3: Biotechnology, Free Communications

Chairpersons: Cornelia Lass-Flörl/Rainer Schneider

- 10:15 – 10:30 **ST11. In silico prediction of conformational IgE epitopes of group 3 allergens based on structural and immunological data**
Devanaboyina V¹, Lupinek C², Dall'Antonia F¹, Nandy A³, Valenta R², Keller W¹
¹Institute For Molecular Biosciences, Graz, Austria, ²Department of Pathophysiology, Vienna, Austria, ³Allergopharma J.Ganzer KG, Reinbek, Germany
- 10:30 – 10:45 **ST12. Surface Engineering of Enveloped Viral Vectors and Virus-like Particles**
Metzner C^{1,2}, Salmons B³, Günzburg WH^{1,2,4}, Dangerfield JA^{1,3,4}
¹Institute of Virology, Department of Pathobiology, University of Veterinary Medicine and ²Christian Doppler Laboratory for Gene Therapeutic Vector Development, Vienna, Austria. ³SGaustria Pte Ltd, and ⁴Christian Doppler Laboratory Foreign Module for Virology-Nanotechnology, Biopolis, Singapore.
- 10:45 – 11:00 **ST13. Triacylglycerol lipases of yeast and plants: more than just hydrolases**
S. Rajakumaria, R. Rajasekharanb and G. Daum
a Institute of Biochemistry, Graz University of Technology, *b* Department of Biochemistry, Indian Institute of Science,
- 11:00 – 11:15 **ST14. Micropatterning of plasma membrane proteins to analyze raft localization in living cells**
Weghuber J.¹, Sunzenauer S.¹, Rajendran L.², Brameshuber M.¹, Simons K.², Schütz G.J.¹
¹Biophysics Institute, Johannes Kepler University Linz, Altenbergerstr.69, A-4040 Linz, Austria, ²Max Planck Institute of Molecular Cell Biology and Genetics,

Pfotenhauerstr. 108, D-01307 Dresden, Germany.

- 11:15 – 11:30 **ST15. Imaging distinct conformational states of protein aggregates in steatohepatitis using novel luminescent polymers.**
Mahajan V¹, Klingstedt T², Nilsson K. P², Fuchsbichler A¹, Kashofer K¹, Abuja PM¹, Denk H¹, Zatloukal K¹
¹*Institute of Pathology, Medical University of Graz, Austria,* ²*Department of Chemistry, Linköping University, Sweden*
- 11:30 – 11:45 **ST16. Role of TIS7 and SKMc15 in lipid metabolism.**
D. Cikes, ¹R. Gstir, ¹Ch. Zwicker, ¹T. Stasyk, ²E. Demetz, ²I. Tancevski, ³A. Hermetter, ³M. Morak, ⁴V. Kuhn, ⁵F. Stellaard, ¹L.A. Huber, ¹I. Vietor
¹*Division of Cell Biology, Biocenter Innsbruck,* ²*Department for Internal Medicine,* ⁴*Department for Trauma Surgery and Sports Medicine, Innsbruck Medical University, A-6020 Innsbruck, Austria,* ³*Technical University, A-8401Graz, Austria* ⁵*University Medical Center Groningen, Groningen, The Netherlands*

12:00 – 13:15 **Lunch**

Plenary Lecture 5: Signaling

Chairperson: Hans Grunicke

13:15 – 14:00 **Walter Birchmeier**, Max-Delbück Center for Molecular Medicine, Berlin
Wnt/ β -catenin signaling in precursor and stem cells

14:00 – 15:15 **Funding Opportunities**

Moderation: Peter Josten

FWF: Christine Bandtlow

EU: Wolfram Rieneck

FEBS: Barbara Kofler

15:15 **Award ÖGMBT Prizes for best Short Talk and best Posters**
Hans Grunicke

Concluding Remarks

	Monday, September 21, 2009	Tuesday, September 22, 2009	Wednesday, September 23, 2009
07:30	Start Registration		
08:30 - 09:00	Opening Ceremony	<i>Educational 1</i>	<i>Educational 3</i>
09:00 - 09:45	Plenary lecture 1: NEUROGENETICS HERBERT HERZOG, Sydney (sponsored by FEBS 2007)	Plenary lecture 3: CANCER EDUARDO MORENO, Madrid	Plenary lecture 5: SYSTEMS BIOLOGY VASSILY HATZIMANIKATIS, Lausanne
09:45 - 10:15	Coffee Break – Begin Poster Viewing	Coffee Break - Begin Poster Viewing	Coffee Break
10:15 - 10:45	Award ceremony: ÖGMBT-VWR/THP Research Awards	Award ceremony: ÖGMBT best thesis awards	Short Talks 3: Biotechnology/Free Communications
10:45 - 12:00	Short Talks 1: Cancer/Signaling	Short Talks 2: Signaling/Transcription/Translocation/ Aging	
12:00	ÖGMBT Board Meeting Theoretical Medical Institutes, Fritz-Pregl-Str. 3, 5th floor, room 522		
12:00 - 13:30	Poster Viewing and Lunch	Poster Viewing and Lunch	Lunch
13:15 - 14:00	Charles River (Lecture Hall 3)		Plenary lecture 6: SIGNALING WALTER BIRCHMEIER, Berlin
13:30 - 14:00	Press Release Price Dialog Gentechnik	<i>Educational 3</i>	
14:00 - 16:00	Special Symposium 1 CATERINA LA PORTA, Milan NISAR MALEK, Hannover MICHAEL LEITGES, Oslo CARMEN BIRCHMEIER, Berlin	Special Symposium 2 JOHANNES GRILLARI, Wien FRANK MADEO, Graz PLACIDO NAVAS, Sevilla	FUNDING OPORTUNITIES 15:15 Award Ceremony “Best Short Talk” and “Best Posters” Concluding remarks
16:00 - 17:00	Coffee Break and Poster Viewing	Coffee Break and Poster Viewing	
17:00 - 17:45	Plenary Lecture 2: CANCER and SIGNALING PATRICK BAEUERLE, Munich	FEBS AWARD LECTURE ULF R RAPP, Würzburg	
18:00 - 19:00	General assemblies (ÖGMBT, OGBM, ÖGGGT), Fritz-Pregl-Str. 3, HS B	Reception by the City of Innsbruck/Province of Tyrol Aula, Main University Building, 1st floor, Christoph-Probst-Platz	
19:00	Wine tasting and Company exhibit		