

10th Scientific Symposium of the Austrian Pharmacological Society (APHAR)

23–26 September 2004

Vienna, Austria



Joint meeting with the Austrian Society of Toxicology (ASTOX),
the Hungarian Society for Experimental and Clinical Pharmacology (MFT)
and the Swiss Society for Pharmacology and Toxicology (SGPT)

PROGRAM

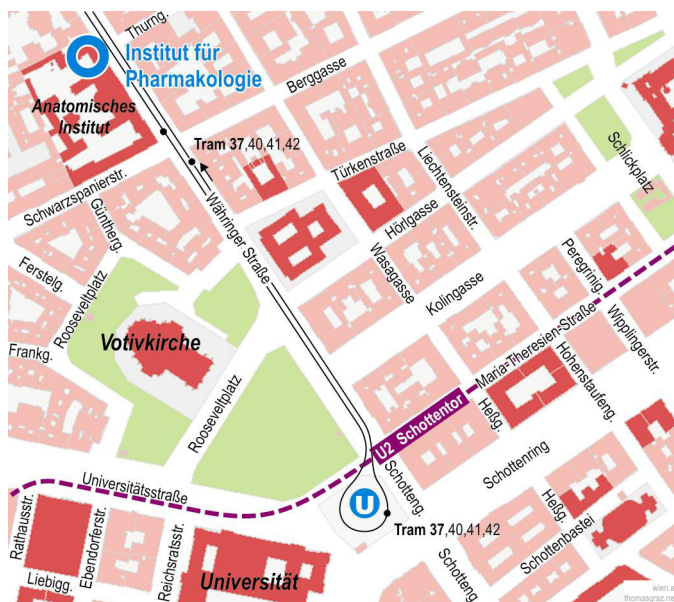
This program can also be downloaded from our website (<http://www.aphar.at/2004/program04.pdf>)

Abstracts of short communications and posters will be published in the journal *Pharmacology* at the time of the meeting and are also available on the web (<http://www.aphar.at/2004/abstracts04.pdf>)

LOCATION

Institute of Pharmacology
Währinger Straße 13a, A-1090 Vienna

Nearest Underground station:
Schottentor, line U2 (purple line)



U-Bahn in Wien

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Tramway-Museum
Wiener Linien
Kondenzzentrum



REGISTRATION FEES AND ORGANISATION

- Registration Fee:** € 40.– (Please pay the registration fee at the registration desk)
Reduced registration fee for retired members of APHAR and for students with written confirmation of student status: € 20.– (The confirmation form can be downloaded from: <http://www.aphar.at/2004/student.pdf> and should be signed by the head of the institution)
Participation is free of charge for plenary speakers and for APHAR honorary members.
The registration fee includes the welcome and farewell receptions (Thursday and Saturday), the evening at a Viennese wine restaurant (Friday), and participation in one of the two guided tours (Sunday).
- Travel Grants:** A limited number of travel grants of € 100.– are available for students of institutions outside Vienna. Please use the application form (<http://www.aphar.at/2004/travel.pdf>) and return it by fax (+43-316-380-69-4310). Grants will be awarded in the order of their arrival.
- Registration Desk:** Institute of Pharmacology, Medical University of Vienna
Währinger Straße 13a, A-1090 Vienna, Tel: +43 (1) 4277-64101, Fax: +43 (1) 4277-9641
e-mail: ludmilla.hertting@meduniwien.ac.at
Opening hours: Thu 23 Sept: 11:00 – 18:00
Fri 24 Sept: 08:30 – 18:00
Sat 25 Sept: 08:30 – 12:00
- Language:** All presentations shall be given in English.
- Organisation:** Austrian Pharmacological Society (APHAR)
President: Ernst Singer, Institute of Pharmacology, Medical University of Vienna
Tel: + 43 (1) 4277-64100, Fax: +43 (1) 4277-9641, ernst.singer@meduniwien.ac.at
Secretary: Thomas Griesbacher, Inst. for Exp. and Clin. Pharmacology, Medical University of Graz
Tel: +43 (316) 380-4310, Fax: +43 (316) 380-69-4310, thomas.griesbacher@meduni-graz.at

**SYMPOSIUM OF THE
AUSTRIAN SOCIETY OF TOXICOLOGY (ASTOX)**

PLENARY LECTURES

Chair: Rolf SCHULTE-HERMANN (*Vienna*)

- 12:00 Helmut BARTSCH
(*German Cancer Research Center, Heidelberg*)
↳ Molecular Chemoprevention Science: From Cure of End-Stage Disease to Early Reversal of Carcinogenesis
- 12:45 Bernhard KEPPLER
(*Department of Anorganic Chemistry, University of Vienna*)
↳ New Antitumor Agents Derived from Metal Coordinated Compounds – Preclinical and Clinical Results
- 13:30 *Coffee Break*

SHORT COMMUNICATIONS

Chair: Helmut BARTSCH (*Heidelberg*), Bernhard KEPPLER (*Vienna*)

- 14:00 Influence of Chromanol-Type Antioxidants on the Respiration of Intact and Oxidatively
T 10 Damaged Rat Heart Mitochondria (RHM)
↳ *Karin Staniek, W. Gregor, H. Nohl, L. Gille (Vienna)*
- 14:15 Detection of Various Oxygen- and Carbon-Centered Radicals Requires the Development
T 2 of Novel Spin Traps
↳ *Klaus Stolze, N. Udilova, T. Rosenau, A. Hofinger, H. Nohl (Vienna)*
- 14:30 Superoxide from NADPH Oxidase in Kupffer Cells Enhances Hepatotoxicity of
T 9 Diethylnitrosamine
↳ *Olga Teufelhofer, W. Parzefall, L. Elbling, R. Thurman, S. Knasmüller, R. Schulte-Hermann (Vienna)*
- 14:45 Dietary Lipid Hydroperoxides Induce Expression of Vascular Endothelial Growth Factor
T 5 (VEGF) in Human Colorectal Tumor Cells
↳ *D. Jurek, Natalia Udilova, A. Jozkowicz, H. Nohl, B. Marian, R. Schulte-Hermann (Vienna, Kraków)*
- 15:00 Activins, Follistatins, and Liver Cancer
T 6 ↳ *N. Erlach, B. Peter-Vörösmarty, C. Drucker, C. Gerner, B. Grasl-Kraupp, R. Schulte-Hermann, Michael Grusch (Vienna)*
- 15:15 New Insights in Mechanisms Underlying Resistance against the Anticancer Ru (III)
T 15 Compound KP1019 (FFC14a)
↳ *Petra Heffeter, M.A. Jakupec, M. Pongratz, P. Chiba, M. Micksche, W. Körner, M. Hauses, B. Marian, B.K. Keppler, W. Berger (Vienna)*

- 18:00 **WELCOME RECEPTION**
at the Institute of Pharmacology

POSTER PRESENTATIONS

THURSDAY

AUSTRIAN SOCIETY OF TOXICOLOGY (ASTOX)

- T 1 **Apoptosis and Liver Tumor Promoter-Stimulated DNA Synthesis Are Regulated by Nutrients in Primary Hepatocyte Culture**
↳ *Wolfram Parzefall, J.-M. Reuter, E. Kainzbauer, R. Schulte-Hermann (Vienna)*
- T 3 **Antioxidant Properties of Ubichromanol, Ubichromenol and Three New Chromanols**
↳ *Wolfgang Gregor, C. Adelwöhner, T. Rosenau, G. Grabner, H. Nohl, L. Gille (Vienna)*
- T 4 **The Challenge to Reduce Animal Testing in Regulatory Toxicology. Example: The Biocidal Products Directive (BPD)**
↳ *Martin Paparella, E. Fassold (Vienna)*
- T 7 **Flavaglines: A Group of Efficient Growth Inhibitors Block Cell Cycle Progression and Induce Apoptosis in Colorectal Cancer Cells**
↳ *B. Hausott, H. Greger, Brigitte Marian (Vienna)*
- T 8 **Cytotoxicity and Antioxidant-Derived Prooxidants of Hydroxystilbenes**
↳ *Lars Gille, M. Murias, N. Handler, T. Erker, T. Szekeres, H. Nohl, W. Jäger (Vienna)*
- T 11 **Evaluation of the Role of EGFR and erbb2 Signaling and its Blockage in Hepatoma Cells**
↳ *Annemarie Losert, N. Erlach, B. Peter-Vörösmarty, R. Schulte-Hermann, M. Grusch (Vienna)*
- T 12 **Quantitative Assessment of Individual Drug Responsiveness by Proteome Analysis**
↳ *Elisabeth Traxler, N. Gundacker, H. Zwickl, R. Schulte-Hermann, C. Gerner (Vienna)*
- T 13 **Screening for Cancer Biomarkers Applying Quantitative Proteome Analysis of Tumour Tissues and Isolated Cells**
↳ *Hannes Zwickl, E. Traxler, S. Stättner, W. Parzefall, B. Grasl-Kraupp, R. Schulte-Hermann, C. Gerner (Vienna)*
- T 14 **Toxicity and Anticancer Activity of the New Lanthanum-Centred Compound KP772 (FFC24)**
↳ *Petra Heffeter, M.A. Jakupec, M. Micksche, M. Hauses, N. Graf von Keyserlingk, B.K. Keppler, W. Berger (Vienna)*
- T 16 **Hypermethylation: Epigenetic Silencing of Tumorsuppressor Genes in Human Hepatocarcinogenesis**
↳ *Doris Macheiner, S. Kappel, C. Bichler, D. Kandioler-Eckersberger, R. Schulte-Hermann, S. Zöchbauer-Müller, B. Grasl-Kraupp (Vienna)*

**SYMPOSIUM OF THE
APHAR SECTION OF CLINICAL PHARMACOLOGY**

PLENARY LECTURE

Chair: Markus MÜLLER (Vienna)

- 09:00 Urban UNGERSTEDT
(Department of Pharmacology, Karolinska Institutet, Stockholm)
↳ Microdialysis in Clinical Pharmacology

SHORT COMMUNICATIONS

- 09:45 The Effect of Norepinephrine on Cefpirome Tissue Concentrations in Healthy Subjects
K 1 ↳ Ilka Steiner, H. Langenberger, C. Marsik, B.X. Mayer-Helm, M. Fischer, A. Georgopoulos,
M. Müller, G Heinz, C. Joukhadar (Vienna)
- 10:00 In vitro and in vivo Evaluation of [¹⁸F]Ciprofloxacin for the Imaging of Bacterial
K 5 Infections with PET
↳ Oliver Langer, M. Brunner, M. Zeitlinger, S. Ziegler, U. Müller, G. Dobrozemsky, E. Lackner,
C. Joukhadar, M. Mitterhauser, W. Wadsak, E. Minar, R. Dudczak, K. Kletter, M. Müller (Vienna)
- 10:15 Time Lag in Platelet Function Inhibition by Clopidogrel in Stroke Patients as Measured
K 4 by PFA-100
↳ S. Raman, Rosemarie Reiter, B. Jilma (Detroit, Vienna)
- 10:30 Coffee Break

PLENARY LECTURE

Chair: Michael WOLZT (Vienna)

- 11:00 David J. WEBB
(Clinical Research Centre, University of Edinburgh)
↳ Molecular and Pharmacological Approaches to Probing the Vascular Endothelin System

SHORT COMMUNICATIONS

- 11:45 Simvastatin Prevents Vascular Hyporeactivity during Inflammation
K 9 ↳ Johannes Pleiner, G. Schaller, F. Mittermayer, S. Zorn, C. Marsik, S. Polterauer, S. Kapiotis,
M. Wolzt (Vienna)
- 12:00 Influence of a Functional MDR-1 Gene Single Nucleotide Polymorphism (SNP) on the CNS
K 6 Distribution of a PGP Substrate in Humans
↳ Martin Brunner, O. Langer, R. Sunder-Plassmann, U. Müller, M. Mitterhauser, W. Wadsak,
C. Mannhalter, K. Kletter, C. Joukhadar, M. Müller (Vienna, Gainesville)
- 12:15 Age and Sex Modulate Metabolic and Cardiovascular Risk Markers of Patients after One
K 2 Year of Highly Active Antiretroviral Therapy (HAART)
↳ Judith Maria Leitner, H. Pernerstorfer-Schön, A. Weiss, K. Schindler, A. Rieger, B. Jilma (Vienna)
- 12:30 Lunch Break

'HUNGARIAN AFTERNOON'
SYMPOSIUM OF THE HUNGARIAN SOCIETY FOR
EXPERIMENTAL AND CLINICAL PHARMACOLOGY (MFT)

PLENARY LECTURES

Chair: Peter HOLZER (*Graz*), Csaba FARSANG (*Budapest*)

- 14:00 E. Sylvester VIZI
(*Department of Pharmacology, Hungarian Academy of Sciences, Budapest*)
↳ Non-Synaptic Receptors as Targets of Drugs
- 14:45 János SZOLCSÁNYI
(*Department of Pharmacology, University of Pécs*)
↳ Sensocrine Function of Capsaicin-Sensitive Nociceptors:
Perspectives in Drug Research
- 15:30 *Coffee Break*

SHORT COMMUNICATIONS

Chair: Harald SITTE (*Vienna*), E. Sylvester VIZI (*Budapest*)

- 16:00 Influence of Arachidonyl Ethanolamide on the Occurrence of Arrhythmias after
M 1 Experimental Myocardial Infarction in Rats
↳ *Szilvia Vajda, I. Baczkó, I. Leprán (Szeged)*
- 16:15 Central and Peripheral Opioid Actions of Novel 6-Amino Acid-Substituted Derivatives
M 2 of 14-O-Methyloxy-Morphone
↳ *Pál Riba, K. Király, T. Friedmann, J. Schütz, M. Spetea, H. Schmidhammel, S. Fürst*
(*Budapest, Innsbruck*)
- 16:30 Regulation of Transmitter Release in the CNS by Cannabinoid Receptors
M 3 ↳ *Beáta Sperlágh, A. Kőfalvi, E.S. Vizi (Budapest)*
- 16:45 Potentiation of P2X3 Receptor-Mediated Currents in HEK293-hP2X3 Cells by
M 4 Phosphorylation of the Extracellular Loop
↳ *László Köles, K. Wirkner, M. Klebingat, D. Stanchev, S. Fürst, H. Dihazi, G. Flemig, K. Eschrich,*
P. Illes (Budapest, Leipzig)
- 17:00 Interaction between the Sensory Nervous System and Inflammatory Cells in Skin
M 21 ↳ *Erika Pintér, A. Bánvölgyi, T. Berki, L. Pálinkás, Z. Helyes, N. Clark, J. Szolcsányi, S.-D. Brain*
(*Pécs, London*)
- 17:15 The Regulatory Role of α -Adrenergic Receptors in Pregnant Rat Uterine Contractility
M 23 and Implantation
↳ *György Falkay (Szeged)*
- 17:30 *Short Coffee Break*
(*afternoon program continues on next page*)

100 YEARS OF PHARMACOLOGY IN VIENNA

PLENARY LECTURE

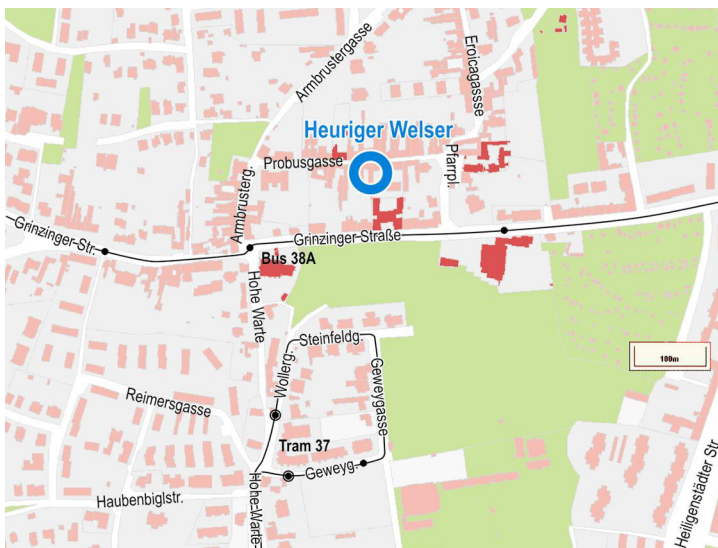
Chair: Michael FREISSMUTH (*Vienna*)

17:45 Georg HERTTING
(*Institute of Pharmacology, Medical University of Vienna*)
📍 100 Years of Pharmacology in Vienna

HONORARY MEMBERSHIP AWARD CEREMONY

18:30 The Honorary Membership of the Austrian Pharmacological Society is awarded to
Prof. Dr. Walter KOBINGER (*Vienna*) for his outstanding achievements in pharmacology.
Laudation: Ludwig PICHLER (*Vienna*)

20:00 EVENING AT A VIENNESE WINE RESTAURANT (HEURIGER)



Location: Heuriger WELSER
Probusgasse 12
1190 Vienna (19th district)
(www.werner-welser.at)

Public Transport: Tram no. 37: Stops are right next to the Institute of Pharmacology at the corner of Währinger Straße and Berggasse/Schwarzspanierstraße or next to the underground station U2 Schottentor (see plan on p. 2). Take Tram no. 37 in direction "Hohe Warte" and get off at the last stop. From there walk down Hohe Warte (keeping the direction of the tram line), cross Grinzinger Straße, enter Ambrusterergasse, first right is Probusgasse.

Alternatively, you can take underground U4 (green line, see plan on p. 2) until last stop Heiligenstadt, then take bus no. 38A until stop Ambrusterergasse.

POSTER PRESENTATIONS

FRIDAY

APHAR CLINICAL PHARMACOLOGY SECTION

- K 3 **Exploratory Relative Bioavailability Study: Desmopressin Administered Intranasally versus Sublingual and Oral Application in Healthy Volunteers**
✉ *Florian Islinger, S.T. Kaehler, E. Lackner, P. Zeleny, M. Müller, C. Joukhadar (Vienna, Fieberbrunn)*
- K 7 **Penetration of Intravenously Administered Fosfomycin into Abscess Fluid**
✉ *Robert Sauermann, H. Langenberger, R. Karch, G. Karanikas, R. Gattringer, J. Kettenbach, B.X. Mayer-Helm, M. Petsch, T. Sautner, C. Joukhadar (Vienna)*
- K 8 **Pharmacokinetics of Cefpirome in Subcutaneous Adipose Tissue of Septic Patients**
✉ *Robert Sauermann, G. Delle-Karth, C. Marsik, I. Steiner, B.X. Mayer-Helm, A. Georgopoulos, M. Müller, C. Joukhadar (Vienna)*
- K 10 **Sensitizing NSCLC to Chemotherapy by Bcl-2 siRNA – What is the Optimal Chemo Combination?**
✉ *Doris Losert, M. Müller, V. Wacheck (Vienna)*
- K 11 **Targeting Mcl-1 Exhibit a Strong Single Agent Activity in Hepatocellular Carcinoma**
✉ *Wolfgang Sieghart, D. Losert, S. Strommer, D. Cejka, M. Peck-Radosavljevic, V. Wacheck (Vienna)*

HUNGARIAN SOC. FOR EXP. AND CLIN. PHARMACOLOGY (MFT)

- M 5 **Lack of ATP-Induced [³H]GABA and [³H]Glutamate Release from the Hippocampus of P2X₇ Receptor Knockout Mice**
✉ *Lilla Papp, B. Sperlágh, E.S. Vizi (Budapest)*
- M 6 **Dendritic Calcium Dynamics Modulated by Nonsynaptic Receptors**
✉ *Balázs Lendvai, S. Szabó, T. Zelles, E.S. Vizi (Budapest)*
- M 7 **Low-Dose Nicotine Modulates Action Potential-Evoked Calcium Transients in CA1 Pyramidal Neurons**
✉ *Szilárd Szabó, T. Zelles, E.S. Vizi, B. Lendvai (Budapest)*
- M 8 **Intracellular Sodium and Calcium Dynamics in CA1 Pyramidal Cells Revealed by in vitro Ischemia Models**
✉ *Ádám Fekete, T. Zelles, B. Lendvai, E.S. Vizi (Budapest)*
- M 9 **Heterologous Uptake and Release of Norepinephrine by Serotonergic Terminals in NET KO Mice**
✉ *János P. Kiss, G. Zsilla, M.G. Caron, E.S. Vizi (Budapest, Durham NC)*
- M 10 **'Gating Equilibrium Hypothesis': A Novel Mechanism of Sodium Channel Inhibition**
✉ *Róbert Károly, A. Mike, J.P. Kiss, E.S. Vizi (Budapest)*
- M 11 **Investigation of the Effects of Erythropoietin on Human Placental Blood Vessels' Contractility**
✉ *Béla E. Resch, R. Gáspár, S. Sonkodi, G. Falkay (Szeged)*

- M 12 **Regulation of DA Transporter by Nitric Oxide**
↳ Gabriella Zsilla, J.P. Kiss, E.S. Vizi (Budapest)
- M 13 **Acute and Chronic Effect of Terbutaline on the Pregnant Rat Cervical Resistance**
↳ Róbert Gáspár, Z. Kolarovszki-Sipiczki, E. Ducza, A. Heinrich, E. Páldy, S. Benyhe, A. Borsodi, G. Falkay (Szeged)
- M 14 **The Mechanism of Use-Dependent Sodium Channel Inhibition by Anticonvulsants and Antidepressants: Two Distinct Mechanisms Underlie Apparent Similarity**
↳ Árpád Mike, R. Károly, J.P. Kiss, E.S. Vizi (Budapest)
- M 15 **Pharmacological Investigation of the Newly Synthesized Progestins**
↳ Árpád Márki, I. Zupkó, A. Dancsi, E. Francsics-Czinege, G. Falkay, Z. Tuba (Szeged)
- M 16 **Modulation of Backpropagating Action Potential and Synaptic Stimulation-Induced Calcium Transients by Nicotinic Receptors in Dendrites of Hippocampal Interneurons**
↳ Balázs Rózsa, G. Katona, T. Zelles, R. Szipocs, E.S. Vizi, B. Lendvai (Budapest)
- M 17 **Lipopolysaccharide Treatment Alters the Relaxing Potency of β_2 -Adrenergic Receptor Agonists on the Pregnant Rat Uterus**
↳ Anna Klukovits, Á. Márki, G. Falkay (Szeged)
- M 18 **Inhibitory Effect of Antidepressants on NMDA Receptors in the Central Nervous System**
↳ Bernadett K. Szász, A. Mayer, Z. Gerevich, P. Illes, J.P. Kiss, E.S. Vizi (Budapest, Leipzig)
- M 19 **Superfusional Investigation of Adrenergic Innervation of the Uterus during Pregnancy and Postpartum Period in the Rat**
↳ István Zupkó, D. Csonka, G. Falkay (Szeged)
- M 20 **Inhibitory Effect of Channel Blocker Type Antagonists on the Dopamine Uptake: an in vivo Microdialysis Study**
↳ Aliz Mayer, B.K. Szász, J.P. Kiss, E.S. Vizi (Budapest)
- M 22 **Mechanisms of $[Ca^{2+}]_i$ Increase in Hippocampal Neurons after in vitro Ischemia**
↳ Tibor Zelles, T. Ikemoto, H. Wada, A. Fekete, B. Lendvai, E.S. Vizi (Budapest, Tokorozawa)
- M 24 **Heat Injury-Induced Drop of the Noxious Heat Threshold: A Novel Method for the Study of Thermonociception and Its Pharmacological Modulation**
↳ Kata Bölcskei, G. Pethő, J. Szolcsányi (Pécs)
- M 25 **Insulin Sensitization Induced by Low Dose Isosorbide Mononitrate in Conscious Rabbits**
↳ Barna Peitl, Z. Szilvássy, Cs. Pánkucsi (Debrecen)
- M 26 **Pharmacological Exploitation of the NO–cyclic GMP Pathway in the Extrahepatic Biliary Tract**
↳ Zoltán Szilvássy, R. Sári, B. Peitl (Debrecen, Szeged)

'SWISS MORNING'
**SYMPOSIUM OF THE SWISS SOCIETY FOR
PHARMACOLOGY AND TOXICOLOGY (SGPT)**

PLENARY LECTURES

Chair: Veronika SEXL (*Vienna*)

- 09:00 **Hans-Uwe SIMON**
(*Department of Pharmacology, University of Bern*)
↳ **The Role of Eosinophils in Inflammation: Lessons from Anti-IL-5 Antibody Studies**
- 09:45 **Karl G. HOFBAUER**
(*Biozentrum, University of Basel*)
↳ **Novel Targets for Anti-Obesity Drugs**
- 10:30 *Coffee Break*

SHORT COMMUNICATIONS

Chair: Martin HOHENEGGER (*Vienna*)

- 11:00 **Effects of Topical Pimecrolimus on Skin Histology, Inflammatory Infiltrate and Cytokine
S 1 Production in Atopic Dermatitis**
↳ *Dagmar Simon, E. Vassina, L.R. Braathen, H.-U. Simon (Bern)*
- 11:15 **Melanocortin 4-Receptor (MC4-R) Blockade in Rodent Models of Cachexia
S 2**
↳ *Janet R. Nicholson, P. Dunant, K.G. Hofbauer (Basel)*
- 11:30 **Induction of Genes Mediating Interferon-Dependent Extracellular Traps Formation during
S 3 Neutrophil Differentiation**
↳ *S. Martinelli, M. Urosevic, A. Daryade, P.A. Oberholzer, C. Baumann, M.F. Fey, R. Dummer, H.-U. Simon, Shida Yousefi (Bern)*
- 11:45 **Mechanism of Action of the General Anaesthetics Propofol and Etomidate
S 4**
↳ *R. Jurd, M. Arras, S. Lambert, A. Zeller, B. Drexler, R. Siegwart, F. Crestani, M. Zaugg, K. Vogt, B. Ledermann, B. Antkowiak, Uwe Rudolph (Zürich, Tübingen)*
- 12:00 **Adenosine-Based Stem Cell Therapy for Drug-Resistant Epilepsy
S 5**
↳ *N. Gouder, Denise E. Fedele, M. Güttinger, H. Möhler, W.F. Pralong, P. Aebischer, P. Koch, O. Brustle, D. Boison (Zürich, Bonn)*
- 12:15 **Quantitative in vivo Imaging of Angiogenesis in Antigen-Induced Arthritis Using Non-Invasive
S 6 Approaches**
↳ *Fabienne Baffert, C.R. Schnell, K. Grosios, N. Beckmann, J. Dawson, J. Wood (Basel)*
- 12:30 *Lunch Break*

**SYMPOSIUM OF THE
AUSTRIAN PHARMACOLOGICAL SOCIETY (APHAR)**

PLENARY LECTURES

Chair: Christian NANOFF (*Vienna*)

- 14:00 **Francesco FERRAGUTI**
(*Department of Pharmacology, Medical University of Innsbruck*)
↳ **Metabotropic Glutamate Receptors: Cell-Specific Expression and Transcriptional Regulation**
- 14:45 **Ferdinando NICOLETTI**
(*Department of Human Physiology and Pharmacology, University of Rome "La Sapienza"*)
↳ **Metabotropic Glutamate Receptors: Pharmacology and Neurobiology** (*preliminary title*)
- 15:30 *Coffee Break*

SHORT COMMUNICATIONS

Chair: Günther SPERK (*Innsbruck*)

- 16:00 **Impact of Tyk2 on Abelson-Induced Tumour Formation**
A 8 ↳ *Dagmar Stoiber, B. Kovacic, C. Schuster, C. Schellack, M. Karaghiosoff, O.C. Kleine, R. Kreibich, E. Weisz, M. Mueller, V. Sexl* (*Vienna*)
- 16:15 **Ecstasy Synthesis Impurities Characterized with Recombinant Human Monoamine Transporters**
A 23 ↳ *Christian Pifl, G. Nagy, S. Berényi, A. Kattinger, H. Reither, S. Antus* (*Vienna, Szeged, Debrecen*)
- 16:30 **Functional Analysis of Cav1.4 Ca²⁺ Channel Missense Mutations Associated with X-Linked Congenital Stationary Night Blindness Type II (CSNB2)**
A 10 ↳ *J.-C. Hoda, Francesca Zagherro, A. Koschak, J. Striessnig* (*Innsbruck*)
- 16:45 **Selective Increase of Dark-Phase Water Intake in Neuropeptide-Y Y₂ and Y₄ Receptor Knockout Mice**
A 27 ↳ *Thomas Wultsch, E. Painsipp, G. Sperk, H. Herzog, B.A. Peskar, P. Holzer* (*Graz, Innsbruck, Sydney*)

ZAK AWARD

The ZAK Award was donated by ZAK Pharma on the occasion of the 100 Year Anniversary of the Institute of Pharmacology of the Medical University of Vienna.

- 17:00 **Hesso FARHAN** (*Institute of Pharmacology, Medical University of Vienna*)
↳ **Two Discontinuous Segments in the Carboxyl Terminus are Required for Membrane Targeting of the Rat GABA Transporter-1 (GAT1)**
- 17:15 **Christian ROSKER** (*Institute of Pharmacology and Toxicology, University of Graz*)
↳ **Ca²⁺ signaling by TRPC3 involves Na⁺ entry and local coupling to the Na⁺/Ca²⁺ exchanger**
- 17:30 *Short Coffee Break*
(*afternoon program continues on next page*)

SHORT ADDRESS

17:45 Karl J. NETTER (*Department of Pharmacology and Toxicology, University of Marburg*)

PLENARY LECTURE

Chair: Klaus GROSCHNER (*Graz*)

18:00 Thomas GUDERMANN (*Department of Pharmacology and Toxicology, University of Marburg*)
↳ Receptor-Operated Cation Entry via TRP Channels: Physiology and Pathophysiology

19:00 **FAREWELL RECEPTION**

at the Institute of Pharmacology

Hans Horst MEYER
1853 – 1939



POSTER PRESENTATIONS

SATURDAY

AUSTRIAN PHARMACOLOGICAL SOCIETY (APHAR)

- A 1 **Alterations in Neuropeptidergic Systems in Y₁ Receptor-Deficient Mice – Correlation to Phenotype**
✉ *Christoph Schwarzer, W. Wittmann, T. Karl, M. Couzens, H. Herzog (Innsbruck, Sydney)*
- A 2 **Genomic Structure and Transcriptional Regulation of Metabotropic Glutamate Receptor 8**
✉ *Carmen Lackner, L. Crepaldi, F. Ferraguti (Innsbruck)*
- A 3 **Secretoneurin – a Neuropeptide which Links Neurons, Blood Vessels and the Immune System**
✉ *Johannes Leierer, J. Troger, R. Kirchmair, P. Schratzberger, R. Fischer-Colbrie (Vienna)*
- A 4 **A Hydrophobic Motif in the Carboxyl Terminus of the GABA Transporter 1 Mediates ER Export but not the Interaction with Sec24D**
✉ *Verena Paulitschke, V. Reiterer, H.H. Sitte, M. Freissmuth, H. Farhan (Vienna)*
- A 5 **Protective Role of Myocardial eNOS-Derived Nitric Oxide in Diabetic Cardiomyopathy**
✉ *G. Wölkart, H. Stessel, Friedrich Brunner (Graz)*
- A 6 **JunB Determines the Malignancy of Abelson Transformed B-Lymphoid Cells**
✉ *René Georg Ott, O. Simma, E.F. Wagner, V. Sexl (Vienna)*
- A 7 **A Novel Transposon Tn5-Based Technique for Random Epitope Tagging of Neuronal Ion Channels**
✉ *Claudia Wild, K. Watschinger, G.J. Obermair, B.E. Flucher, M.J. Sinnegger-Brauns, J. Striessnig (Innsbruck)*
- A 9 **An Interaction between the Selectivity Filter and the Inner Vestibule Stabilizes the Structure of the Pore of the Voltage-Gated Sodium Channel**
✉ *Touran Zarrabi, W. Sandtner, J. Szendrödi, E. Zebedin, K. Hilber, H. Todt (Vienna)*
- A 11 **Expression of Glutamate Decarboxylase (GAD67) and the Vesicular GABA Transporter (VGAT) in the Hippocampus of Patients with Mesial Temporal Lobe Epilepsy**
✉ *Katja Heitmair-Wietzorrek, S. Pirker, C. Baumgartner, T. Czech, E. Trinkka, M. Ortler, G. Sperk (Innsbruck, Vienna)*
- A 12 **Molecular Nature of Anomalous L-type Calcium Channel Gating in Mouse Cerebellar Granule Cells**
✉ *Alexandra Koschak, M.J. Sinnegger-Brauns, J. Striessnig, D. Pietrobon (Innsbruck, Padova)*
- A 13 **Presynaptic Inhibition of Transmitter Release from Rat Sympathetic Neurons by Bradykinin**
✉ *Hannah Edelbauer, S.G. Lechner, M. Mayer, T. Scholze, S. Böhm (Vienna)*
- A 14 **Time-Course of the Expression of Spinal cord PGD Synthase in Systemic Inflammation – Indication for a 'Late' PGD₂ Response?**
✉ *Magdalena Grill, R. Schuligoi, R. Amann (Graz)*
- A 15 **The Nonselective Cation Channel Protein TRPC3 Associates with NCX1 in Rat Cardiac Myocytes**
✉ *Petra Eder, C. Rosker, K. Groschner (Graz)*

- A 16 **Amphetamines Take Two to Tango: An Oligomer-Based Counter-Transport Model of Neurotransmitter Transport Explores the Amphetamine Action**
↳ *Stefan Seidel, H.H. Sitte, H. Just, H. Farhan, P. Scholze, O. Kudlacek, M. Holy, K. Koppatz, P. Krivanek, M. Freissmuth, E.A. Singer (Vienna)*
- A 17 **The Role of ARNO/Cytohesin-2 in A2A-Adenosine Receptor Signaling**
↳ *Ingrid Gsandtner, C. Charalambous, E. Stefan, M. Freissmuth, J. Zezula (Vienna)*
- A 18 **Homophilic Dimerization of Transmembrane Domain 2 via an Interplay of Hydrophobic Interactions and Hydrogen Bonding Mediates Oligomerization of GABA Transporter-1**
↳ *Vladimir M. Korkhov, H. Farhan, M. Freissmuth, H.H. Sitte (Vienna)*
- A 19 **Extracellular ATP Activates ERK1/2 via Metabotropic P2Y Receptors in a Ca²⁺-Independent Manner in Differentiated Human Skeletal Muscle Cells**
↳ *Christopher May, L. Weigl, M. Hohenegger (Vienna)*
- A 20 **Functional Properties of Voltage-Gated Sodium Currents in the Course of Skeletal Muscle Fibre Type Transformation**
↳ *Eva Zebedin, W. Sandtner, J. Szendrödi, T. Zarrabi, H. Just, H. Todt, K. Hilber (Vienna)*
- A 21 **Electrophysiological Adaptations of Skeletal Muscle Cells in a Cardiac Cell Environment**
↳ *Eva Zebedin, M. Mille, M. Speiser, W. Sandtner, T. Zarrabi, H. Todt, K. Hilber (Vienna)*
- A 22 **Plasma Membrane-Targeted TRPC3 Mediates Cellular Responses to Phospholipase C and Oxidative Stress**
↳ *Annarita Graziani, C. Rosker, M. Krenn, K. Groschner (Graz)*
- A 24 **Autocrine Feed Back Loops in Tumor Cells as Guides to Pharmacological Target Identification**
↳ *Edin Ibrisimovic, E. Fürst, C. Nanoff (Vienna)*
- A 25 **Independence of Prostaglandin Formation and the Inflammatory Oedema during Caerulein-Induced Acute Pancreatitis in Rats**
↳ *Thomas Griesbacher, I. Rainer, R. Schuligoi, B.A. Peskar (Graz)*
- A 26 **Increased TRPV1 Expression in Dorsal Root Ganglia (DRG) after Acid Insult of the Rat Stomach**
↳ *R. Schicho, P. Holzer, Irmgard Th. Lippe (Graz)*
- A 28 **Differential Changes in Homecage Activity, Baseline Temperature and Stress-Induced Hyperthermia in Neuropeptide-Y Y₂ and Y₄ Receptor Knockout Mice**
↳ *Evelin Painsipp, T. Wultsch, F. Hetzenauer, N. Singewald, G. Sperk, H. Herzog, P. Holzer (Graz, Innsbruck, Sydney)*
- A 29 **Use Dependent Inhibition of the Skeletal Muscle Ryanodine Receptor by the Suramin Analogue NF676**
↳ *Ilse Wolner, M.U. Kassack, H. Ullmann, M. Hohenegger (Vienna, Bonn)*
- A 30 **In vitro Differentiation of Pluripotent Progenitor Cells from Human Adipose Tissue into Endothelial Cells**
↳ *Vandana S. Nikam, A. Graziani, A. Trantina-Yates, H. Mächler, K. Groschner (Graz)*

GUIDED TOURS
SUNDAY

Participation in one of the two guided tours is included in the registration fee.
If possible, please register for the tours before the meeting by sending the tour registration form (available on our website: <http://www.aphar.at/2004/registration.rtf>).
If you have not registered before the meeting please ask the registration desk.



Tour A) Vienna City

Tour Guide: Prof. M. Freissmuth



Tour B) 'Narrenturm' ('Madhouse Tower')

The building was constructed in 1784 as part of the Vienna General Hospital. The institution was then the first psychiatric hospital. Today, the Narrenturm houses the Federal Pathologic-Anatomical Museum

10:15 Meeting Point: Institute of Pharmacology, Währinger Straße 13a (for both tours)

Austrian Pharmacological Society (APHAR)

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ANSUCHEN UM AUFNAHME

als **ordentliches Mitglied** **Dissertant**

(gem. §5 der Statuten können alle Personen, die aktiv auf dem Gebiet der Pharmakologie in Forschung, Lehre oder Administration tätig sind und entweder ein abgeschlossenes Universitätsstudium besitzen oder sich im Dissertationsstadium befinden, Mitglieder der APHAR werden. Bei Dissertanten wird um Bestätigung des Institutsvorstandes gebeten.)

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*) **Akad. Grad:**

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*) **Ausbildung:**

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Befürwortendes Mitglied der Gesellschaft:

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Das ausgefüllte Formular bitte an den Geschäftsführer der APHAR (T. Griesbacher, Institut für Experimentelle und Klinische Pharmakologie, Universitätsplatz 4, 8010 Graz, Fax: 0316 / 380-69-4310) schicken.