

13th Scientific Symposium of the Austrian Pharmacological Society (APHAR)

Joint Meeting with the
Austrian Society of Toxicology (ASTOX) and the
Hungarian Society for Experimental and Clinical
Pharmacology (MFT)

22–24 November 2007

Department of Pharmacology
Medical University of Vienna



First
Heribert Konzett
Award 2007



Third
Hans Horst Meyer
Award 2007

Organisation:

Ernst Singer (Vienna)
Michael Freissmuth (Vienna)
Brigitte Blöchl-Daum (Vienna)
Thomas Griesbacher (Graz)
Andrea Laslop (Vienna)
Peter Placheta (Vienna)

Information:

Thomas Griesbacher (Graz)
thomas.griesbacher@meduni-graz.at

<http://www.aphar.at>

LOCATION

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

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



REGISTRATION FEES AND ORGANISATION

Registration Fee: € 30.– (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: € 15.– (The confirmation form can be downloaded from: <http://www.aphar.at/2007/student.rtf> and should be signed by the head of the institution)
Participation is free of charge for plenary speakers and for APHAR honorary members.

Travel Grants: A limited number of travel grants are available for students of institutions outside Vienna (€ 200 for western Austria, € 150 for eastern Austria, € 200 for Hungary). Please use the application form (<http://www.aphar.at/2007/reko07.rtf>) and return it by fax (+43-316-380-694310 or +43-316-380-9645).
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 22 Nov: 13:00 – 17:30
Fri 23 Nov: 08:30 – 18:00
Sat 24 Nov: 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
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AUSTRIAN SOCIETY OF TOXICOLOGY (ASTOX)

ASTOX POSTER SESSION

14:00 The presenters of ASTOX posters are requested to be present at their poster during this session. The best ASTOX presentation (short communication or poster) will be selected to receive the ASTOX Prize (total EUR 500).

Chairs: Rolf SCHULTE-HERMANN (*Wien*), Katrin STANIEK (*Wien*), Karl-Heinz WAGNER (*Wien*)

PLENARY LECTURE

14:30 Application of Mouse Models Humanised for Major Pathways of Drug Disposition in Toxicology
↳ Roland WOLF (*University of Dundee Biomedical Research Centre, Dundee*)

SHORT COMMUNICATIONS

15:15 Submitochondrial Particles from *Saccharomyces cerevisiae* to Screen Compounds for
A 56 Antiprotozoal Activity

↳ Carmen Streicher, G. Wiesenberger, T. Rosenau, L. Gille (*Wien*)

15:30 Control of Hepatocellular Apoptosis by Cytokines (TGF- β 1), Liver Tumor Promoter
A 63 (Phenobarbital) and Nutritional Factors (Glucose): Approach to Validate the Hepatoma Cell Line
HCC-1.2 as Cell Culture Model

↳ A. Karwan, J. Dornetshuber, R. Schulte-Hermann, Wilfried Bursch (*Wien*)

15:45 Role of Mesenchymal Liver Cells in Mediating Hepatic Toxicity and Carcinogenesis

A 58 ↳ Sandra Sagmeister, W. Parzefall, C. Gauglhofer, C. Gerner, R. Schulte-Hermann,
B. Grasl-Kraupp (*Wien*)

16:00 *Coffee Break and Posters*

Chairs: Roland WOLF (*Dundee*), Bettina GRASL-KRAUPP (*Wien*)

ORAL COMMUNICATIONS

16:30 Lipid Hydroperoxide, an Intermediate Product of Oxidative Stress, Induces Tumour Progression-
A 67 Associated Genes in Hepatocarcinoma Cells

↳ Nataliya Rohr-Udilova, K. Stolze, B. Grasl-Kraupp, R. Schulte-Hermann,
R. Peck-Radosavljevic (*Wien*)

16:45 Influence of an Ironman Triathlon on Sister Chromatid Exchanges and High Frequency Cells

A 61 ↳ Stefanie Reichhold*, M. Meisel, O. Neubauer, K.-H. Wagner (*Wien*)

17:00 Investigation of Genotoxic Effects of Inhalative Occupational Exposure to Vanadium: Results of
A 60 a Multiple Endpoint Study

↳ Veronika Ehrlich, A. Nersesyan, C. Hoelzl, F. Ferk, J. Bichler, K. Atefie, E. Valic,
A. Schaffer, R. Schulte-Hermann, S. Knasmüller (*Wien*)

PLENARY LECTURE

17:15 DNA-Protective Food Constituents: Detection and Occurrence

↳ Siegfried KNASMÜLLER (*Dept. of Medicine I, Inst. of Cancer Research, Med. University of Vienna*)

17:45 *Presentation of the ASTOX Prize*

18:00 **WELCOME RECEPTION**

for all registered participants.

**CLINICAL SECTION OF THE
AUSTRIAN PHARMACOLOGICAL SOCIETY (APHAR)**

Chair: Bernd JILMA (*Wien*)

SHORT COMMUNICATIONS

- 09:00 **Daptomycin Elimination by Continuous Venovenous Hemofiltration: In Vitro Evaluation of**
A 21 **Factors Influencing Sieving and Membrane Adsorption**
↳ Claudia Wagner, I. Steiner, M. Zeitlinger (*Wien*)
- 09:15 **Effects of High Dose Prednisolone on Optic Nerve Head Blood Flow in Patients with Acute**
A 30 **Optic Neuritis**
↳ H. Resch, Günther Weigert, G. Garhöfer, G.T. Dorner, A. Reintner, L. Schmetterer (*Wien*)
- 09:30 **Pharmacokinetics of Amphotericin B Colloidal Dispersion in Liver Failure**
A 28 ↳ Stefan Weiler, S. Weiler, R. Bellmann-Weiler, M. Joannidis, R. Bellmann (*Innsbruck*)
- 09:45 **Pharmacokinetics and Pharmacodynamics of the Dual FII/FX Inhibitor BIBT 986 in**
A 29 **Endotoxin-Induced Coagulation**
↳ Judith Leitner, B. Jilma, F.B. Mayr, F. Cardona, A.O. Spiel, C. Firbas, K. Rathgen, H. Stähle, U. Schühly, E.U. Graefe-Mody (*Wien, Biberach*)
- 10:30 **In Vivo Dose Finding of Tariquidar Using (R)-[¹¹C]Verapamil μ PET**
A 22 ↳ Oliver Langer, J. Bankstahl, C. Kuntner, A. Abraham, R. Karch, J. Stanek, T. Wanek, M. Zsebedics, K. Kletter, W. Löscher, M. Müller, H. Kvaternik (*Seibersdorf, Wien, Hannover*)
- 10:15 *Coffee Break and Posters*

Chair: Brigitte BLÖCHL-DAUM (*Wien*)

- 10:45 **Influence of the Duffy Genotype on Pharmacokinetics and Pharmacodynamics of**
A 31 **Recombinant Monocyte Chemoattractant Protein (MCP-1) In Vivo**
↳ F.B. Mayr, A.O. Spiel, J.M. Leitner, C. Firbas, J. Schnee, J. Hilbert, Bernd Jilma (*Wien, Ridgefield*)

PLENARY LECTURE

- 11:00 **Mechanisms of Ischaemic Preconditioning in Humans**
↳ Raymond MacALLISTER
Centre for Clinical Pharmacology and Therapeutics, Rayne Institute, London

- 12:00 **MITGLIEDERVERSAMMLUNG DER SEKTION KLINISCHE PHARMAKOLOGIE**
Members of the APHAR Section of Clinical Pharmacology only

Teilnahmeberechtigt sind alle Mitglieder der Sektion Klinische Pharmakologie der APHAR. Gemäß § 12 der Statuten wird den Sektionsmitgliedern die vorläufige Tagesordnung spätestens vier Wochen vor der Sektionsversammlung zugesandt. Gemäß § 3 der Geschäftsordnung der Sektion sind weitere Anträge zur Tagesordnung bis spätestens sieben Tage vor der Sektionsversammlung bei der Sektionsleitung schriftlich einzureichen.

Lunch Break

Afternoon Programme continues on next page

**AUSTRIAN PHARMACOLOGICAL SOCIETY (APHAR) AND
HUNGARIAN SOCIETY FOR EXPERIMENTAL AND CLINICAL
PHARMACOLOGY (MFT)**

Chairs: Karlheinz HILBER (*Wien*), Valéria KECSKEMÉTI (*Budapest*)

PLENARY LECTURE

- 14:00 Analysis of the Role of Central α_2 , Opioid and Excitatory Amino Acid Receptors in Gastric Mucosal Defense
↳ Klára GYIRES
Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest

SHORT COMMUNICATIONS


- 14:45 Cell Adhesion-Dependent Trafficking and Targeting of TRPC4 Channels in Human Vascular Endothelium
A 17
↳ Annarita Graziani, M. Krenn, M. Poteser, K. Groschner (*Graz*)
- 15:00 The Possible Link between Insulin Resistance and Increased Cardiovascular Mortality
A 48
↳ Barna Peitl, L.P. Drimba, R. Döbrönte, J. Németh, R.Zs. Sári, Cs. Pankucsi, A. Varga, L. Fésüs, J. Tózsér, Z. Szilvássy (*Debrecen, Győr*)
- 15:15 Ion Channels Alteration in Dilated Cardiomyopathy in Human Heart
A 51
↳ Viktoria Szűts, I. Baczkó, D. Ménesi, Z. Varga-Orvos, J.Zs. Kelemen, L.G. Puskás, Z. Bódi, L. Csincsik, N. Houshmand, M. Bitay, M. Csanády, J. Norbert, L. Virág, J.Gy. Papp, A. Varró (*Szeged*)
- 15:30 *Coffee Break and Posters*

Chairs: Klára GYIRES (*Budapest*), Peter HOLZER (*Graz*)

- 16:00 14-Methoxy-Metopon: a Highly Potent μ Opioid Agonist on Rat Vas Deferens
A 45
↳ Kornél P. Király, P. Riba, T. Friedmann, M. Al-Khrasani, H. Schmidhammer, S. Fürst (*Budapest, Innsbruck*)
- 16:15 Neurokinin 1 Receptor Antagonism Promotes Active Stress Coping via Enhanced Septal 5-HT Transmission
A 1
↳ Georg M. Singewald, K. Ebner, N. Whittle, F. Ferraguti, N. Singewald (*Innsbruck*)
- 16:30 Experiments to Localize the Site for the Anxiogenic action of NPY Mediated by Y_2 Receptors in the Mouse Brain
A 14
↳ Ramon O. Tasan, S. Weger, R. Heilbronn, N.K. Nguyen, N. Singewald, H. Herzog, G. Sperk (*Innsbruck, Berlin, Sydney*)
- 16:45 Further Evidence for the Involvement of 5-HT_{2c} Receptors in the Pentylentetrazol Model of Epilepsy
A 36
↳ Pál Riba, Gy. Bagdy, V. Kecskeméti (*Budapest*)

Programme continues on next page

HANS HORST MEYER AWARD 2007

17:00 The Hans Horst Meyer Award of the Austrian Pharmacological Society is awarded to young investigators in experimental and clinical pharmacology and toxicology.
Donated by  Corporation Austria.



H.H. MEYER (1853-1939)

PLENARY LECTURE ON THE OCCASION OF THE 80TH BIRTHDAY OF PROF. WALTER KOBINGER

17:15 Molecular Pharmacology of Clonidine and α_2 Adrenoceptors

↳ Lutz HEIN

Institut für Experimentelle und Klinische Pharmakologie und Toxikologie, University of Freiburg

18:00 GENERAL ASSEMBLY

Members of the Austrian Pharmacological Society only

Gem. § 9 der Statuten wird den Mitgliedern die vorläufige Tagesordnung spätestens vier Wochen vor der Generalversammlung zugeschickt. Weitere Anträge sind mindestens sieben Tage vor dem Termin der Versammlung beim Vorstand schriftlich einzureichen. Teilnahmeberechtigt sind alle ordentlichen Mitglieder, sowie Vertreter der außerordentlichen Mitglieder. Stimmberechtigt sind nur die ordentlichen Mitglieder.

19:30 EVENING AT A VIENNESE WINE RESTAURANT (HEURIGER)



Admittance for registered participants only.

Date: Friday
23 November 2007

Time: 19:30

Location: Heuriger WELSER
Probusgasse 12
1190 Vienna (19th district)

Public transport: Take tram no. 37 (see map of meeting location above) 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 Ambrustergasse, first right is Probusgasse. Alternatively, you can take underground U4 (green line, see plan above) until last stop Heiligenstadt, then take bus no. 38A until stop Ambrustergasse.

APHAR AND MFT SYMPOSIUM (CONT'D)

Chairs: Árpád MIKE (*Budapest*), Jörg STRIESSNIG (*Innsbruck*)

SHORT COMMUNICATIONS

- 09:00 C-Terminal Splicing Reveals Intramolecular Gating Modulation in Cav1.3 L-Type Ca²⁺
A 11 Channels
✉ A. Singh, M. Gebhart, R. Fritsch, J.-C. Hoda, M. Sinnegger-Brauns, C. Romanin, J. Striessnig, Alexandra Koschak (*Innsbruck, Linz*)
- 09:15 State-Dependent Dissociation of HERG Channel Inhibitors
A 13 ✉ D. Stork, Andreas Windisch, E.N. Timin, A. Hohaus, M. Auer, G. Ecker, S. Hering (*Wien*)
- 09:30 Interaction Between the Selectivity Filter and the Fast Inactivation Machinery in the Voltage-
A 15 Gated Na⁺ Channel
✉ René Cerwenka, T. Zarrabi, X. Koenig, E. Zebedin, K. Hilber, H. Todt (*Wien*)

PLENARY LECTURE

- 09:45 P2 Receptor-Mediated Modulation of Neurotransmitter Release
✉ Beáta SPERLÁGH (*Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest*)
- 10:30 Coffee Break and Posters
- Chairs: Stefan BÖHM (*Wien*), Beáta SPERLÁGH (*Budapest*)

SHORT COMMUNICATIONS

- 11:00 GPR55 is a Novel Cannabinoid Receptor
A 3 ✉ Nariman Balenga, A.J. Irving, M. Waldhoer (*Graz, Dundee*)
- 11:15 PI3Kδ: A Double-Edged Sword in Leukemia Formation
A 7 ✉ Eva-Maria Zebedin, O. Simma, C. Schuster, E. Eckelhart, W. Warsch, D. Stoiber, E. Weisz, W.F. Pickl, R. Piekorz, Freissmuth, V. Sexl (*Wien, Düsseldorf*)
- 11:30 Exploring the Heterogeneity of Use-Dependent Sodium Channel Inhibitor Drugs. II: Drugs
A 42 Described by the Modulated Receptor Hypothesis (MRH) and/or the Guarded Receptor Hypothesis (GRH)
✉ Árpád Mike, N. Lenkey, R. Károly, E.S. Vizi (*Budapest*)
- 11:45 Evidence Against a Separate High Affinity Binding Site on the P2X₃ Receptor
A 38 ✉ Róbert Károly, Á. Mike, Z. Gerevich, P. Illes, E.S. Vizi (*Budapest*)

HERIBERT KONZETT AWARD 2007

- 12:00 The Heribert Konzett Award of the Austrian Pharmacological Society is awarded to young investigators in experimental and clinical pharmacology in recognition of their independent research achievements.

Donated by AstraZeneca  Austria.

H. KONZETT (1912–2004)



PLENARY LECTURE

- 12:15 The Structure-Function Relationship in Neurotransmitter Transporters: From Molecule to Disease
✉ Harald SITTE (*Department of Pharmacology, Centre for Biomolecular Medicine and Pharmacology, Medical University of Vienna*)
- 13:00 End of meeting

POSTER PRESENTATIONS SESSION I
(THURSDAY 14:00 – FRIDAY 12:00)

Presenting authors are requested to indicate the times of their presence at the poster boards (preferably during the coffee breaks). Dimensions of the poster boards: width 90 cm, height 135 cm.

APHAR SECTION OF CLINICAL PHARMACOLOGY

- A 23 **Metabolism of (R)-[¹¹C]Verapamil in Epilepsy Patients**
↳ *Aiman Abraham, G. Luurtsema, M. Bauer, R. Karch, C. Baumgartner, K. Kletter, M. Müller, O. Langer (Wien, Seibersdorf, Amsterdam)*
- A 24 **P-Glycoprotein inhibition at the Blood-Brain Barrier Visualized with (R)-[¹¹C]Verapamil μ PET**
↳ *C. Kuntner, J. Bankstahl, A. Abraham, R. Karch, J. Stanek, T. Wanek, M. Zsebedics, K. Kletter, W. Löscher, H. Kvaternik, M. Müller, Oliver Langer (Seibersdorf, Wien, Hannover)*
- A 25 **mTORC1 Inhibition with Rapamycin or LY294002 Alone but Not in Combination Leads to AKT Phosphorylation via mTORC2 in Melanoma Cells**
↳ *Johannes Werzowa, D. Cejka, B. Dekrout, T. Fuereder, C. Thallinger, H. Pehamberger, V. Wacheck, B. Pratscher (Wien)*
- A 26 **Monitoring Platelet Activation with Two Different Shear-Dependent Function Tests: Application of PFA-100 and the Impact-R ARA**
↳ *Ghazaleh Gouya, M. Wolzt, M. Niel, B. Jilma, S. Panzer (Wien)*
- A 27 **Effects of Topical Clonidine vs. Brimonidine on Choroidal Blood Flow and Intraocular Pressure During Isometric Exercise**
↳ *Günther Weigert, H. Resch, G. Garhöfer, G. Fuchsjäger-Mayrl, L. Schmetterer (Wien)*

AUSTRIAN SOCIETY OF TOXICOLOGY (ASTOX)

The presenters of ASTOX posters are requested to be present at their poster at the designated ASTOX Poster Session (Thursday 22 Nov, 14:00–14:30). Please make sure that you put up your poster before the session starts. The best ASTOX presentations (short communication and poster) will be selected to receive the ASTOX Prize (total EUR 500), which will be awarded at the end of the Thursday afternoon session.

- A 52 **Spin Trapping Experiments with Ethyl-Substituted EMPO Derivatives (EEMPO)**
↳ *Klaus Stolze, N. Rohr-Udilova, T. Rosenau, A. Hofinger, H. Nohl (Wien)*
- A 53 **In Situ Monitoring of the Genotoxic Effects in the Vicinity of a Petrochemical Plant with the *Tradescantia* Micronucleus (Trad-MCN) and with Pollen Abortion Test**
↳ *Miroslav Mišík, K. Mičieta, M. Solenská, N. Markusková, K. Mišíková, S. Knasmüller (Wien, Bratislava)*
- A 54 **H₂O₂ Detection with 10-Acetyl-3,7-Dihydroxyphenoxazine: Comparison with Homovanillic Acid**
↳ *Katrin Staniek (Wien)*
- A 55 **Toxicological Investigation of Nanoparticles: Effects on Human Cells**
↳ *Letizia Farmer, A. Graff, S. Szameit, E. Valic, H. Tuschl (Seibersdorf, Leoben, Wien)*
- A 57 **Role of Fibroblast Growth Factors in Hepatocarcinogenesis of Humans and Rats**
↳ *Christine Gauglhofer, S. Sagmeister, W. Parzefall, R. Schulte-Hermann, B. Grasl-Kraupp (Wien)*

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POSTER PRESENTATIONS (SESSION I CONT'D)

- A 59 **New Epithelial and Mesenchymal Cell Lines from Primary Liver Cancer to Study Cell Interactions in Hepatocarcinogenesis**
↳ *Sandra Sagmeister, M. Eisenbauer, C. Pirker, K. Holzmann, W. Parzefall, C. Gerner, R. Schulte-Hermann, B. Grasl-Kraupp (Wien)*
- A 62 **β -Sitosterol Oxidation Products Failed to Show Mutagenic Potential in the Ames Test**
↳ *Karin Koschutnik*, S. Kemmo, A.-M. Lampi, V. Piironen, K.-H. Wagner (Wien, Helsinki)*
- A 63 **Control of Hepatocellular Apoptosis by Cytokines (TGF- β 1), Liver Tumor Promoter (Phenobarbital) and Nutritional Factors (Glucose): Approach to Validate the Hepatoma Cell Line HCC-1.2 as Cell Culture Model**
↳ *Anneliese Karwan, A. Karwan, J. Dornetshuber, R. Schulte-Hermann, W. Bursch (Wien)*
- A 64 **Cancer and Nutrition: Role of Amino Acids (AA) for the Regulation of Hepatocellular Apoptosis**
↳ *Miriam Mayer, A. Ellinger, A. Karwan, R. Schulte-Hermann, W. Bursch (Wien)*
- A 65 **Impact of Stereochemistry on Biological Effects of Permethrin: Induction of Apoptosis in Human Hepatoma Cells (HCC-1.2) and Primary Rat Hepatocyte Cultures**
↳ *Julia Dornetshuber, W. Bicker, M. Lämmerhofer, W. Lindner, A. Karwan, W. Bursch (Wien)*
- A 66 **Influence of Dissolved Organic Matter on the Bioavailability of Hydrophobic Organic Pollutants in Sediments Investigated by Bioassays**
↳ *Klaus Wruss, D. Todorovic, A.P. Loibner (Tulln)*
- A 68 **iNOS Expression and Levels of Nitric Oxide in a Hepatocarcinogenesis Model of p47-NADPH Knockout Mice**
↳ *Constanze Freiler, E. Kainzbauer, R. Schulte-Hermann, W. Parzefall (Wien)*

Presenters of posters in Poster Session I are requested to take down their posters at Friday noon so that the presenters of Poster Session II (starting Friday 14:00; see next page) can put up their posters for display.

POSTER PRESENTATIONS SESSION II (FRIDAY 14:00 – SATURDAY 12:00)

AUSTRIAN PHARMACOLOGICAL SOCIETY (APHAR)

- A 2 **Restricted Expression between Parvalbumin and Substance P Receptor NK₁ in Interneurons of the Lateral Amygdala**
↳ *Hari Kishore Sreepathi, F. Ferraguti (Innsbruck)*
- A 4 **The hCMV Chemokine Receptor US28 Prevents Melanoma Growth**
↳ *Elisabeth Moser, J. Shripad, P. Quan, H. Seidl, S. Frank, Z.-J. Liu, M. Fukunaga, R. McDaid, H. Kerl, M. Herlyn, H. Schaidler, M. Waldhoer (Graz, Philadelphia)*
- A 5 **SAP102, a Novel Interaction Partner of the A_{2A} Adenosine Receptor**
↳ *Ingrid Gsandtner, N. Ferstl, M. Freissmuth, J. Zezula (Wien)*
- A 6 **Heterologous Expression of Membrane Proteins in Cardiac Myocytes**
↳ *Miroslav Radenkovic, H. Pankevych, O. Kudlacek, I. Gsandtner, K. Hilber (Wien)*

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POSTER PRESENTATIONS (SESSION II CONT'D)

- A 8 **Selective Serotonin Reuptake Inhibitors: A New Modality for the Treatment of Lymphoma/Leukaemia?**
 ↪ *Christian Schuster, N. Fernbach, U. Rix, G. Superti-Furga, M. Holy, M. Freissmuth, H.H. Sitte, V. Sexl (Wien)*
- A 9 **Duramycin Effects on Voltage-Gated Ion Channels: a QT-Prolongation Risk?**
 ↪ *Eva Zebedin, X. Koenig, M. Radenkovic, H. Pankevych, H. Todt, M. Freissmuth, K. Hilber (Wien)*
- A 10 **Anticonvulsant and Neuroprotective Actions of Endogenous Dynorphin**
 ↪ *Christoph Schwarzer, S. Loacker, E. Schunk, M. Sayyah, H. Herzog (Innsbruck, Sydney)*
- A 12 **Mapping the Interaction Sites of the Viral Encoded Chemokine Receptor US28 and the Sorting Protein GASP-1**
 ↪ *Gerald Parzmair, W. Platzer, M. Waldhoer (Graz)*
- A 16 **Activation of RhoB in Simvastatin-Induced Apoptosis of Differentiated Human Skeletal Muscle Cells**
 ↪ *Timm Zörgiebel, L. Weigl, H. Genth, M. Hohenegger (Wien, Hannover)*
- A 18 **Sensitization of cAMP Formation in a Neuron-Like Cell Line**
 ↪ *Edin Ibrišimović, M. Bilban, C. Nanoff (Wien)*
- A 19 **Mapping the Binding Sites for Accessory Proteins on the A_{2A} Adenosine Receptor**
 ↪ *Ivana Ostrouska, I. Gsandtner, H. Pankevych, C. Nanoff, Oliver Kudlacek (Wien)*
- A 20 **Differential Anti-Inflammatory Properties of Peroxisome Proliferator-Activated Receptors (PPAR) α and γ in Experimental Pancreatitis**
 ↪ *Thomas Griesbacher, V. Pommer, R. Schuligoi, B.A. Peskar (Graz)*

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

- A 32 **The Selective Enhancer Substance (-)-BPAP Counteracts the Histological and Functional Consequences of an Experimental Stroke in Rats**
 ↪ *László Dénes, I. Miklya (Budapest)*
- A 33 **The Basic Difference in the Pharmacological Spectrum between Methamphetamine and Its Derivative, the Enhancer Substance (-)-Deprenyl**
 ↪ *Ildikó Miklya (Budapest)*
- A 34 **New Method for Detecting ATP Release from Rat Hippocampal Slices**
 ↪ *Attila Heinrich, E.S. Vizi, B. Sperlág (Budapest)*
- A 35 **P2 Receptor-Mediated Modulation of Noradrenaline Release by Electrical Field Stimulation and Ischemic Conditions in Superfused Rat Hippocampus Slices**
 ↪ *Cecília Csölle, A. Heinrich, B. Sperlág (Budapest)*
- A 37 **Ionotropic Neurotransmitter Receptors: Activation and Allosteric Modulation**
 ↪ *Gábor Maksay, L. Fodor (Budapest)*
- A 39 **Changes in the Action of Morphine Challenge Following Perinatal Morphine Exposure in Rats**
 ↪ *Melinda Sobor, J. Timár, S. Gyarmati, S. Füst (Budapest)*

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POSTER PRESENTATIONS (SESSION II CONT'D)

- A 40 **Electrophysiological Effects of Heat Shock Proteins and Dofetilide on Cardiac Preparations of Streptozotocin-Induced Diabetic Rats**
↳ *Éva Virágh, A. Szebeni, V. Kecskeméti (Budapest)*
- A 41 **Exploring the Heterogeneity of Use-Dependent Sodium Channel Inhibitor Drugs. I: Fast- vs. Slow-Inactivated State Preference**
↳ *Nóra Lenkey, R. Károly, E.S. Vizi, Á. Mike (Budapest)*
- A 43 **Electrophysiological Characteristics of Heart Ventricular Papillary Muscles from Histidine Decarboxylase Knockout and Wild-Type Mice: Effects of Rosiglitazone**
↳ *Andrea Szebeni, V. Kecskeméti (Budapest)*
- A 44 **Potential Role of Nociceptin and Nocistatin in Central Regulation of Gastric Mucosal Defense**
↳ *Zoltán S. Zádori, N. Shujaa, K. Tekes, K. Gyires (Budapest)*
- A 46 **Changes in Stereotyped Behaviour Following Acute or Repeated Methylenedioxy-Methamphetamine (MDMA) Treatment**
↳ *Zsuzsanna Szelényi, Á. Bajnógel-Orosz, J. Timár, S. Gyarmati, M. Sobor, S. Füst (Budapest)*
- A 47 **The Role of Cannabinoid CB₁ Receptor Agonists in Gastric Mucosal Protection in Rats and Mice**
↳ *Nashwan Shujaa, Z.S. Zádori, M. Al-Khrasani, S. Füst, T. Wenger, K. Gyires (Budapest)*
- A 49 **Nitrate Tolerance-Induced Deterioration of the Ischemic Adaptability of the Heart**
↳ *Zoltán Szilvássy, J. Szaszko, R. Döbrönte, J. Németh, R.Zs. Sári, Cs. Pankucsi, A. Varga, J. Tózsér, L. Fésüs, B. Peitl (Debrecen, Győr)*
- A 50 **The Peripheral Antinociceptive Effect of DAMGO and 6 β -Glycine-Substituted 14-O-Methyloxymorphone (HS-731) after Systemic Administration in a Mouse Visceral Pain Model**
↳ *Mahmoud Al-Khrasani, M. Spetea, T. Friedmann, P. Riba, K. Király, H. Schmidhammer, S. Füst (Budapest, Innsbruck)*

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