

29th International Winter-Workshop Clinical, Chemical and Biochemical Aspects of Pteridines



The International Society of Pteridinology
in collaboration with the Austrian Society of
Laboratory Medicine and Clinical Chemistry

www.pteridines.org – www.pteridines.sk - www.oeglmkc.at - www.neopterin.net

February 28th – March 7th, 2010

in

St.Christoph/Arlberg, Austria



MEDIZINISCHE UNIVERSITÄT
INNSBRUCK

Programme

Location: **Arlberg Hospiz Hotel, St.Christoph/Arlberg, Austria**

Scientific Committee: Fuchs D (Innsbruck)
Griesmacher A (Innsbruck)
Reibnegger G (Graz)

Honorary Committee: Pfleiderer W (Konstanz)
Wachter H (Innsbruck)

Scientific Goal: The purpose of the workshop is to bring together researchers and clinicians being engaged or interested in a wide spectrum of issues covering chemistry, enzymology, transport and clinical aspects of pteridines and folates.

Sessions: Neopterin, biopterin, folate..., tryptophan
analysis of
biochemistry of
chemistry of
clinical biochemistry of
in immunology
in metabolic disorders
in disease

Language: The official conference language is English

Presentation: Beamer (PC)

Lectures: 20 minutes (including 5 minutes for discussion)

Publication: Abstracts will be published in PTERIDINES

Organisation:

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Sunday, February 28th, 2010

7:00 p.m. Welcome Cocktail at the Chimney-Hall,
Arlberg-Hospiz Hotel

Thereafter, dinner will be served at the
BRUDERSCHAFTSSTUBE

All scientific sessions take place at Seminar Room “**St.Christoph**” (2nd floor, Sporthotel).

Monday, March 1st, 2010

3:15 p.m. - 6:30 p.m.: Scientific Sessions

3:15 – 4:40 Chair: Fuchs D (Innsbruck, Austria)

3:15 Introduction

Fuchs D (Innsbruck, Austria)

3:20 Serum phenylalanine to tyrosine ratio in patients with lung cancer and chronic obstructive pulmonary disease (COPD)

Denz H, Kurz K, Schroecksadel S, Amann A, Fuchs D (Natters & Innsbruck, Austria)

3:40 Tumor invasion pattern and related serum tryptophan and neopterin concentrations in colorectal carcinomas

Engin AB, Engin A, Gonul II, Karamercan A, Sepici-Dincel A, Dursun A (Ankara, Turkey)

4:00 Clinical status in long term successfully transplanted patients

Tenschert W, Atanackovic D, Cao Y, Thaiss F (Hamburg, Germany)

4:20 Oxidative and antioxidative mechanisms in juvenile and adult rats after application of Haloperidol

Berger M, Clement HW, Heiser P, Sommer O, Hoinkes A, Schulz E (Freiburg, Germany)

4:40 – 5:10 Coffee Break

5:10 – 6:30 Chair: Fuith LC (Eisenstadt, Austria)

5:10 Are pterins able to modulate oxidative stress?

Martínez A, Barbosa A (México DF, Mexico; Madrid, Spain)

5:30 Dose-dependent effects of Tibetan remedies on peripheral blood mononuclear cells *in vitro*

Klein A, Jenny M, Gostner J, Vennos C, Schennach H, Fuchs D, Ueberall F (Innsbruck, Austria & Schwerzenbach, Switzerland)

5:50 Oxygen radical absorbance capacity (ORAC) of compounds compared to the suppression of stimulated peripheral blood mononuclear cells

Gostner J, Klein A, Jenny M, Schennach H, Fuchs D, Ueberall F (Innsbruck, Austria)

6:10 Immune system modulation by anti-HIV drugs

Jenny M, Schroecksadel S, Kurz K, Schennach H, Zangerle R, Fuchs D (Innsbruck, Austria)

Tuesday, March 2nd, 2010

9:00 a.m. - 1:00 p.m.: Meet the Experts

3:15 p.m. - 6:20 p.m.: Scientific Sessions

3:15 – 4:35 Chair: Sperner-Unterweger B (Innsbruck, Austria)

3:15 Phenylalanine to tyrosine ratio (phe/tyr-ratio) in children with neuropaediatric abnormalities

Scholl-Bürgi S, Karall D, Albrecht U, Haberlandt E, Rostásy K, Fuchs D (Innsbruck, Austria)

3:35 Changes in NLAA in patients with depressive disorders

Kohl C, Fuchs D, Birkner Ph, Jakob G, Pröll S, Koudouovoh-Tripp P, Sperner-Unterweger B (Innsbruck, Austria)

3:55 „Mild Encephalitis“ - brain-organic pathologies between neurologic and psychiatric disease?

Bechter K (Günzburg, Germany)

4:15 Expression of indoleamine 2,3-dioxygenase-2 (IDO2) at the human feto-maternal interface

Blaschitz A, Maschke P, Gauster M, Dohr G, Ball HJ, Sedlmayr P (Graz, Austria & Sydney, Australia)

4:35 – 5:00 Coffee Break

5:00 – 6:20 Chair: Woloszczuk W (Vienna, Austria)

5:00 Iron metabolic changes and immune activation in patients with HIV-1 infection before and after ART

Kurz K, Schroecksnadel S, Seifert M, Sarcletti M, Fuchs D, Weiss G, Zangerle R (Innsbruck, Austria)

5:20 Nifedipine affects the course of *Salmonella* infection by pharmacological modification of iron homeostasis

Mair SM, Nairz M, Muehlbacher T, Schroll A, Sonnweber T, Weiss G (Innsbruck, Austria)

5:40 *Staphylococcus aureus* lipoproteins affect immune response and body iron homeostasis

Sonnweber T, Theurl I, Schroll A, Nairz M, Seifert M, Theurl M, Mair S, Schmalzer M, Landmann R, Weiss G (Innsbruck, Austria & Basel, Switzerland)

6:00 The impact of Lcn2 deficiency on granulocytes

Schroll A, Eller K, Feistritz C, Sonnweber T, Nairz M, Seifert M, Moser P, Mair S, Rosenkranz A, Theurl I, Weiss G (Innsbruck, Austria)

Wednesday, March 3rd, 2010

9:00 a.m. - 1:00 p.m.: Meet the Experts
3:15 p.m. - 6:40 p.m.: Scientific Sessions

3:15 – 4:45 Chair: Martinez A (Bergen, Norway)

3:15 Mechanisms of tetrahydrobiopterin stimulation of enzymes - an overview
Werner ER, Watschinger K, Keller MA, Golderer G, Werner-Felmayer G (Innsbruck, Austria)

3:35 Distribution of alkylglycerol monooxygenase and fatty aldehyde dehydrogenase activities in tissues and subcellular compartments
Watschinger K, Keller MA, Wiesinger C, Maglione M, Duwensee K, Tancevski I, Forss-Petter S, Hermetter A, Golderer G, Werner-Felmayer G, Berger J, Werner ER (Innsbruck, Wien & Graz, Austria)

3:55 Metabolism of fluorescence labelled-alkylglycerols and fatty aldehydes by cultured cells
Keller MA, Watschinger K, Golderer G, Hermetter A, Werner-Felmayer G, Werner ER (Innsbruck & Graz, Austria)

4:15 Tetrahydrobiopterin saves murine pancreatic grafts from ischemia reperfusion injury: application in an eNOS-/- model
Cardini B, Oberhuber R, Watschinger K, Hermann M, Obrist P, Schneeberger S, Werner-Felmayer G, Pratschke J, Brandacher G, Werner ER, Maglione M (Innsbruck, Austria)

4:35 – 5:00 Coffee Break

5:00 – 6:40 Chair: Werner ER (Innsbruck, A)

5:00 Pharmacological chaperones for the aromatic amino acid hydroxylases
Martinez A, Calvo AC, Scherer T, Pey AL, Ying M, Winge I, McKinney J, Teigen K, Haavik J, Thöny B (Bergen, Norway, Zürich, Switzerland)

5:20 N-Terminal sequencing of pterin deaminase from *Micrococcus luteus* B1252 using MALDI-TOF
Priyadharshini U, Sabarathinam S, Angayarkanni J, Palaniswamy M (Coimbatore, Tamil Nadu, India)

5:40 Antioxidant property exhibited by novel enzyme pterin deaminase
Sabarathinam S, Priyadharshini U, Angayarkanni J, Palaniswamy M (Coimbatore, Tamil Nadu, India)

6:00 Serum neopterin levels in patients with chronic lymphocytic leukemia
Mistrík M, Parrák V, Šujanová Z, Skraková M, Zwiewka M, Fuchs D (Bratislava, Slovakia & Innsbruck, Austria)

6:20 The relationship between alcohol intake and cellular immune activity in systemic lupus erythematosus may change from inhibitory to stimulatory within two months of study
Schubert C, Fuchs D (Innsbruck, Austria)

Thursday, March 4th, 2010

9:00 a.m. - 1:00 p.m.: Meet the Experts
3:15 p.m. - 5:40 p.m.: Scientific Sessions
5:40 p.m.: General Assembly of ISP

3:15 – 4:45 Chair: Hoffmann G (Hall, Austria)

3:15 Determination of volatile organic compounds in exhaled breath of patients with lung cancer and healthy volunteers using TD-GC-MS and PTR-MS

Filipiak W, Filipiak A, Ager C, Bajtarevic A, Schwarz K, Amann A (Innsbruck, Austria)

3:35 TDS-GCMS analysis of volatile metabolites of human lung cancer and non-carcinogenic cells *in vitro*

Sponring A, Filipiak W, Filipiak A, Ager C, Schubert J, Miekisch W, Amann A, Tropfmair J (Innsbruck, Austria & Rostock, Germany)

3:55 Role of food additives in addition to calory intake in the pathogenesis of obesity?

Ciardi C, Jenny M, Tschoner A, Ueberall F, Patsch J, Pedrini M, Ebenbichler C, Fuchs D (Innsbruck, Austria)

4:15 Neopterin and melatonin during a 24h night shift in anaesthetist and medical students

Leichtfried V, Schobersberger W, Putzer G, Perkofer D, Benzer A (Hall in Tirol & Innsbruck, Austria)

4:35 – 5:00 Coffee Break

5:00 – 5:40 Chair: Schobersberger W (Hall in Tirol, Austria)

5:00 Native and adaptive immune response: serum neopterin concentrations in healthy blood donors are not influenced by MBL2 polymorphism

Mühlbacher A, Scholz L, Gassner C, Grabmer C, Mayersbach P, Schennach H (Innsbruck, Austria)

5:20 Effects of rheumatoid arthritis and coronary artery disease on the expression of chemokines and neopterin

Fagerer N, Kullich W (Saalfelden, Austria)

5:40 Annual General Assembly of the International Society of Pteridinology (ISP)

(ISP-members only)

Friday, March 5th, 2010

9:00 a.m. - 1:00 p.m.: Meet the Experts
3:15 p.m. - 6:30 p.m.: Scientific Sessions

3:15 – 4:45 Chair: Haeger M (Gothenburg, Sweden)

3:15 Neopterin in cardiovascular medicine

Kaski JC (London, United Kingdom)

3:45 Prognostic significance of urinary neopterin in colorectal cancer patients treated with cetuximab

Melichar B, Kalábová H, Študentová H, Zezulová M, Holečková P, Krčmová L, Kašparová M, Plíšek J, Solichová D (Olomouc, Hradec Králové & Prague, Czech Republic)

4:05 Urinary neopterin and serum vitamins in patients with head and neck carcinoma

Holečková P, Mašek M, Pála M., Kalábová H, Zezulová M, Študentová H, Krčmová L, Kašparová M, Plíšek J, Solichová D, Melichar B (Prague, Hradec Králové & Olomouc, Czech Republic)

4:25 Serum homocysteine, C-reactive protein, retinol and alpha-tocopherol and urinary neopterin in patients with breast carcinoma treated with bevacizumab

Melichar B, Kalábová H, Študentová H, Zezulová M, Holečková P, Krčmová L, Kašparová M, Plíšek J, Solichová D (Olomouc, Hradec Králové & Prague, Czech Republic)

4:45 – 5:10 Coffee Break

5:10 – 6:30 Chair: Teigen K (Bergen, Norway)

5:10 Evolution of regulation, structure and function in phenylalanine hydroxylase

Teigen K (Bergen, Norway)

5:30 A murine model of human BH4-responsive phenylketonuria

Lagler FB, Gersting SW, Zsifkovit C, Glosmann H, Muntau AC (Innsbruck Austria; Munich Germany)

5:50 Increased plasma phenylalanine to tyrosine ratio in HIV-1 infection and correction following effective antiretroviral therapy

Zangerle R, Kurz K, Neurauter G, Kitchen M, Sarcletti M, Fuchs D (Innsbruck, Austria)

6:10 Carbonyl proteins as useful oxidative stress markers in mild cognitive impairment and Alzheimer's disease

Greilberger J, Koidl C, Greilberger M, Lamprecht M, Schroecksnadel K, Leblhuber F, Fuchs D, Oetl K (Linz, Graz & Innsbruck, Austria)

Saturday, March 6th, 2010

9:00 a.m. - 1:00 p.m.: Meet the Experts
3:15 p.m. – 6:20 p.m.: Scientific Sessions
6:20 p.m.: Blair-Curtius-Pfleiderer-Wachter AWARD

3:15 – 4:35 Chair: Melichar B (Olomouc, Czech Republic)

3:15 Inflammatory markers in post-partum period

Parrak V, Malova A, Secnik P, Redecha M, Fuchs D (Bratislava & Lucenec, Slovakia; Innsbruck, Austria)

3:35 Neopterin production and tryptophan degradation in obese children with morbid obesity

Weghuber D, Krösslhuber V, Mangge H, Fuchs D, Zaknun D (Salzburg, Graz, Innsbruck & Vienna, Austria)

3:55 Urinary neopterin and prognosis of patients with breast carcinoma

Kalábová H, Študentová H, Zezulová M, Holečková P, Krčmová L, Kašparová M, Plíšek J, Solichová D, Melichar B (Olomouc, Hradec Králové & Prague, Czech Republic)

4:15 Immunomodulatory effects of vitamin K-antagonist acenocumarol (Sintrom)

Schroeksnadel S, Jenny M, Kurz K, Schennach H, Weiss G, Fuchs D (Innsbruck, Austria)

4:35 – 5:00 Coffee Break

5:00 – 6:20 Chair: Pellegrin K (Los Angeles, CA, USA)

5:00 Serum neopterin concentrations and tryptophan degradation in intensive care unit patients

Girgin G, Sahin TT, Fuchs D, Yüksel O, Sare M, Kurukahvecioglu O, Baydar T (Ankara Turkey & Innsbruck, Austria)

5:20 Urinary neopterin in patients with gastrointestinal stromal tumors treated with imatinib

Zezulová M, Kalábová H, Študentová H, Holečková P, Krčmová L, Kašparová M, Plíšek J, Solichová D, Mašek M, Melichar B (Olomouc, Hradec Králové & Prague, Czech Republic)

5:40 Urinary neopterin in metastatic renal cell carcinoma patients treated with bevacizumab-based therapy

Študentová H, Kalábová H, Zezulová M, Holečková P, Krčmová L, Kašparová M, Plíšek J, Solichová D, Mašek M, Melichar B (Olomouc, Hradec Králové & Prague, Czech Republic)

6:00 Serum neopterin and tryptophan degradation in patients with neurodermitis

Schröcksnadel S, Fuchs D, Kofler H (Innsbruck, Hall in Tirol, Austria)

6:20 Blair-Curtius-Pfleiderer-Wachter AWARD for Pteridine Research

Closing remarks

The 29th Winterworkshop on "Clinical, Chemical, and Biochemical Aspects of Pteridines" is sponsored by (as by February 1st, 2010):

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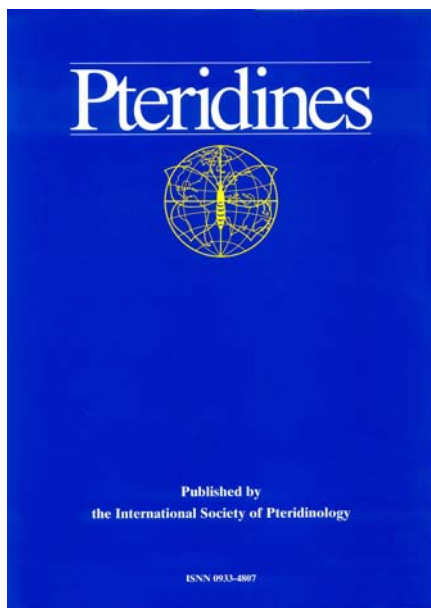
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PTERIDINES, the official organ of the International Society of Pteridinology, now is in its twenty-first year of publication. The on-line journal bridges the gap between basic, chemical and clinical aspects of pteridinology and publishes work in the fields of:

- Unconjugated and Conjugated Pteridines
- Biochemistry of Pteridines
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Only papers written in English are considered. Manuscripts should be double-spaced with a wide margin, and should be sent electronically as word document with eventual figures incorporated to:

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YOUNG SCIENTISTS AWARDS (€ 1000.-- and € 500.--) provided by the International Society of Pteridinology (ISP):

The best two papers published in PTERIDINES per year by first author scientists younger than 40 years will be awarded !

Please contact the Executive-Editor for further information and for membership of the International Society of Pteridinology (the annual rate is € 50.--).