

GEBIN



**6th Meeting of the
German-Endocrine-Brain-Immune Network
together with the
Study Group Dermato-Endocrinology
of the Arbeitsgemeinschaft Dermatologische
Forschung (ADF)**



Program

March 5th – 7th 2007, Freiburg

Dear Colleagues,

The 6th GEBIN Symposium will be held in Freiburg in March 5th-7th, 2007. According to the overall aim of the GEBIN, this Symposium will provide an exciting and interdisciplinary program covering various fields including psychiatry, psychology, neurology, immunology, endocrinology, ethology and other disciplines.

Based on the stimulating interaction between the GEBIN and the Deutsche Zoologische Gesellschaft during the last GEBIN Symposium in Bayreuth, the Steering Committee of the GEBIN decided to further intensify its interdisciplinary goal by meeting another society. The XXXIV. Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung (ADF) of the Deutsche Dermatologische Gesellschaft will take place in Freiburg in March 8th - 10th, 2007. Among the various working groups of the ADF, the Study Group "Dermato-Endocrinology" has emerged as one of the most active ones organizing Satellite Symposia prior to the official start of each ADF Meeting. It is thus our very pleasure that the next GEBIN Symposium on the last day will be organized as a Joint Meeting together with the Study Group Dermato-Endocrinology of the ADF.

The Symposium will be divided into 5 thematic sessions. Each session consisting of short oral presentations will be opened with an introductory lecture of an international expert. Three thematic poster sessions will allow scientists to present their latest research findings. All oral presentations and posters will be published in the April issue of *Experimental Dermatology*.

The organizers of the next GEBIN Symposium 2007 are proud to offer again an Educational Short Course for students. This course will be held prior to the official start of the GEBIN Symposium and is intended to present aspects of Behaviour-Neuro-Endocrine-Immune interactions on a scholarly level.

Our social program of the GEBIN Symposium will include a Welcome Reception in the "Feierling Brauhaus" within the City Center of Freiburg and a Banquet Evening in the "Historisches Kaufhaus" after the Joint Meeting of the GEBIN and the Study Group Dermato-Endocrinology of the ADF on the last day.

We would highly appreciate your participation in this exciting meeting and look forward to welcoming you in Freiburg in March 2007.

With kind regards



Markus Böhm
(Local organizer / Speaker GEBIN)



Bernd Fiebich
(Local organizer)



**Arbeitsgemeinschaft
Dermatologische
Forschung**

Local Organising Committee

Markus Böhm, Münster

Bernd Fiebich, Freiburg

Information

Further information about the GEBIN and the GEBIN 2007 Symposium including the Joint Meeting with the Study Group Dermato-Endocrinology can be found at the GEBIN homepage:

www.gebin.org

Information about the ADF, the Study Group Dermato-Endocrinology of the ADF and the XXXIV. Annual Meeting of the ADF can be found at the ADF homepage:

www.adf-online.de

Scientific Committee

Rainer H. Straub	Regensburg
Hugo O. Besedovsky	Marburg
Markus Böhm	Münster
Jan Born	Lübeck
Adriana del Rey	Marburg
Ralf Gold	Göttingen
Norbert Müller	Munich
Jörg Reichrath	Homburg / Saar
Peter Rieckmann	Würzburg
Manfred Schedlowski	Zürich
Volker Stefanski	Berlin
Karlheinz Voigt	Marburg
Eberhard Weihe	Marburg

Congress Venue

Lecture Hall of the Institute of Zoology (Spot 2) (Biologie I),
University Hospital Freiburg, Hauptstraße 1, 79104 Freiburg im Breisgau, Germany



01 Schänzlestr. 1
Biologie II
Biologie III
Hörsaal
02 Hauptstraße 1
Biologie I (Zoologie)
03 Schänzlestraße
Botanischer Garten
04 Schänzlestraße 1
Schaugewächshaus

05 Schänzlestr. 1
Direktion Botanischer Garten
06 Hauptstr. 7
Hautklinik
07 Hauptstraße 8
Personalwohnheim/Casino
08 Hauptstraße 8
Psychiatrie
09 Hauptstr. 8
Kinderpsychiatrie

10 Karlstrasse
Hörsaal
11 Hauptstraße 8
Klinikschule
12 Hauptstraße
Laborgebäude
13 Pforte - Hauptstraße
Information/Verwaltung

Official Language

The official language of the Congress is English.

Coffee Breaks and Lunch

Coffee, lunch and refreshments will be available in the foyer (ground level) of the Institute of Zoology (Spot 2) (Biologie I) next to the Lecture Hall.

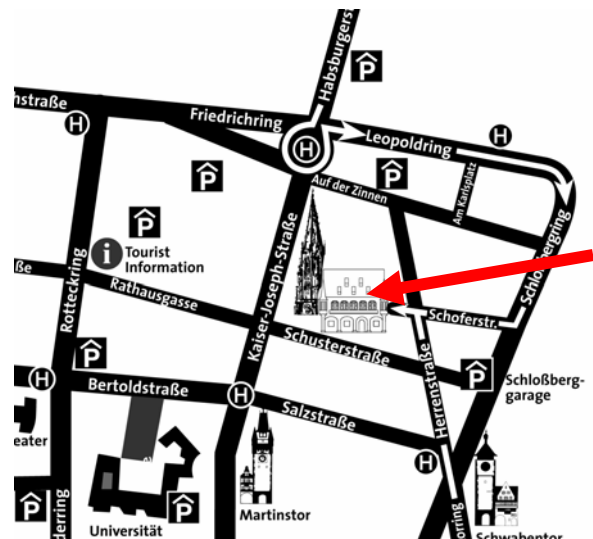
Social Program

The Welcome Reception on Monday evening, 5th March 2007, 20.15, will take place in the "Feierling Brauhaus" within the City Center of Freiburg. On Wednesday, 7th March 2007, the Banquet Evening in the "Historisches Kaufhaus" will kick-off at 20.00. Only registered GEBIN and ADF participants (please bring with you your name badge and voucher for the Banquet Evening) can participate in the social program.

Feierling Brauhaus (Gerberau 46)



Historisches Kaufhaus (Am Münsterplatz 24)



Instructions for Poster Presenters

Mount your poster on your assigned board (number listed below) located in the foyer (ground level) next to the Lecture Hall of the Institute of Zoology. All posters should be mounted on Monday, March 5th 2007, before 15.30. Mounting material will be available in the poster area. Poster width x Poster height = 90 cm x 120 cm. During the thematic Poster Sessions 1-3, presenters should be present at their posters. Presenters of posters are asked to present a short oral overview during the guided tour at the indicated time. Posters should be left mounted until Wednesday, March 7th, 16.00.

Registration

If you wish to participate in this symposium it is highly necessary to pre-register by contacting PD Dr. Bernd Fiebich (e-mail: bernd.fiebich@uniklinik-freiburg.de). Please mention name, title, complete address, Phone, Fax, E-Mail.

Registration Fee:

Student: 50 €

Non-student: 100 €

Transfer the money to the following bank account: Universitätsklinikum Freiburg, Account No. 301 48 100, BLZ 680 700 30, Deutsche Bank, mention the intended purpose: First Name, Last Name, "1028-0002-01 GEBIN Meeting".

Alternatively you can register on-site at the registration desk:

The registration desk is open:

Monday, 5.3.2007: 12:30-19:00

Tuesday, 6.3.2007: 9:00-17:30

Wednesday, 7.3.2007: 9:00-18:30

The registration fees include the program booklet, coffee and lunch breaks, the Welcome Reception on Monday 5th, and the Banquet Evening on Wednesday 7th, March 2007.

Educational Short Course

The GEBIN offers an Educational Short Course organized by A. del Rey. It is intended to teach basic elements of Behaviour-Neuro-Endocrino-Immunology to students (last semester or PhD students). **Time:** March 4th, 2007, 14:00 - 19:00 and March 5th, 2007, 09:00 - 13:00. **Venue:** Seminarraum Psychiatrie, Hauptstraße 8 (Spot 8). For further details on the program of the course and for registration please visit the GEBIN homepage: www.gebin.org and contact Adriana del Rey, Dept. of Physiology, Professor at the University of Marburg, e-mail: delrey@mail.uni-marburg.de.

Hotel Accommodation and Practical Information

Be aware to book the hotel very early. Please find your own hotel via the homepage: <http://www.hotel.de>. It is recommended to take a hotel in the City Center of Freiburg (near the Münsterplatz). From the City Center, it is easy to travel to the congress venue by tramway. Take tramway No.2 from the City Center (Bertoldsbrunnen or Siegesdenkmal) to Hauptstraße.

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Deutsche Gesellschaft für Neurologie
World Psychiatric Association, Section Immunology and Psychiatry

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Ulrike Götzinger Berger
University Hospital Freiburg, Dept. of Psychiatry
Vikramjeet Singh

Monday, March 05, 2007

- 14.00 **Opening of the Congress**
- 14.15 **Stress, Behaviour and Immune Function**
Chairs: M. Schedlowski / P.C. Arck
Invited Speaker: S. von Hörsten
 CD26 (Dipeptidyl-Peptidase IV) as an integrator at the behavioural-neuroendocrine-immune interphase
- 14.55 - 15.07 **H. Engler**, M.T. Bailey, A. Engler, N. Quan, J.F. Sheridan
IL-1 plays a key role in the development of stress-associated glucocorticoid resistance in mice
- 15.07 - 15.19 **S. Benson**, O.E. Janssen, S. Hahn, S. Tan, K. Mann, K. Pleger, N. Rifaie, M. Schedlowski, P.C. Arck, S. Elsenbruch
Body mass index affects cardiovascular and immune cell responses to psychosocial stress in women with polycystic ovary syndrome
- 15.19 - 15.31 **S. Pavlovic Masnikosa**, M. Daniltchenko, S. Blois, B.F. Klapp, E.M.J. Peters
Stress modifies specific immunity in allergic disease via substance P dependent mechanisms
- 15.31 - 15.43 **C. Kiank**, P. Körner, W. Keßler, T. Träger, S. Maier, C.-D. Heidecke, C. Schütt
Seasonal differences in the murine neuroendocrine regulation of inflammatory responsiveness
- 15.43 - 16.00 **Coffee Break**

- 16.00 - 16.12 **R.T. Emeny**, D. Gao, D. A. Lawrence
Beta₁ adrenergic receptors on immune cells impair innate defenses against Listeria
- 16.12 - 16.24 **M.-B. Niemi**, G. Pacheco-Lopez, H. Engler, C. Riether, R. Doenlen, E. Espinosa, R. Oberbeck, M. Schedlowski
Neuro-immune idiosyncrasy: individual's immune history modifies peripheral immune stimuli perception and its association
- 16.24 - 16.36 **A.S. Orsal**, N. Coquery, S.M. Blois, D. Bermpohl, A. Friebe, J. Priller, P.C. Arck
Effect of chronic interferon alpha application in mice on behaviour and immune response
- 16.36 - 16.48 **M.K. Pincus**, R. Joachim, U. Wahn, E. Hamelmann, P.C. Arck
Stress exposure during pregnancy may program allergic asthma and behaviour of the progeny
- 16:48 - 17.00 **P.H. Wirtz**, R. von Känel, L. Emini, K. Rüdisüli, S. Groessbauer, U. Ehlert
Anticipatory cognitive stress appraisal is associated with altered proinflammatory cytokine inhibition in response to stress
- 17.00 - 17.15 **Coffee Break**
- 17.15 **Neuroimmunology in the CNS**
Chair: R. Gold
Invited Speaker: **H. Reichardt**
New aspects of pathophysiology in multiple sclerosis

- 17.55- 18.07 **H.-W. Clement**, J.F. Vázquez, D. van Calker, E. Schulz
IL-6-induction in the striatum of the mouse by adenosine, evidence for the role of the A₂B-receptor
- 18.07 - 18.19 **R. Doenlen**, U. Krügel, C. Riether, H. Engler, M.B. Niemi, M. Schedlowski, G. Pacheco-Lopez
Fingerprints of neural activity after peripheral immune challenges
- 18.19 - 18.31 **R.A. Linker**, D. Lee, I. Siglienti, N. Kruse, M. Sendtner, F. Lühder, R. Gold
Endogenous brain derived neurotrophic factor modulates the immune response in autoimmunity of the central nervous system
- 18.31 - 18.43 **U. Meyer**, B.K. Yee, M. Schedlowski, J. Feldon
IL-10-mediated anti-inflammatory signalling modulates the psychopathological consequences of prenatal infection
- 18.43 -18.55 **J. Steiner**, H. Biela, R. Brisch, C. Mawrin, H.-G. Bernstein, B. Bogerts
Elevated microglial density in schizophrenia and depression is associated with suicide
- 19.00 - 20.00 **Poster Session 1**
- 20.15 starting **Welcome Reception**
”Feierling Brauhaus / City Center”

Tuesday, March 06, 2007

- 09.30 **Neuroimmune-Endocrine Network
in Psychiatric Disease**
Chairs: N. Müller / T. Pollmächer
Invited Speaker: **B. Bogerts**
*Markers of inflammation in post-mortem brains of
schizophrenia*
- 10.10 - 10.22 **U. Ehlert**, A. Nierop, A. Bratsikas, R. Zimmermann
*Psychobiological stress reactivity during healthy human
pregnancy and its predictive value for post partum depressive
symptoms*
- 10.22 - 10.34 **U. Hemmeter**, B. Nekwasil, M. Bender, A. Thum, T. Schneyer,
M. Giesler, T. Wübbena, J. Becker, B. Kundermann, P.
Heiser, J.C. Krieg
*Cortisol and prolactin response to dopaminergic and
serotonergic stimulation, behaviour in an approach-avoidance
paradigm and personality traits in patients with anxiety
disorders and borderline personality disorder*
- 10.34 - 10.46 **D. Hinze-Selch**, N. Bürger, J.M. Koch, J.B. Aldenhoff,
C. Huchzermeier, R. Göder
*Effects on cytokine plasma levels during interpersonal
psychotherapy (IPT) in individuals with major depression:
Association with responder status and known confounders*
- 10.46 - 11.15 **Coffee Break**

- 11.15 - 11.27 **M. Hüll**, E. Haake, B. L. Fiebich
Effects of adrenergic stimulation on cultured microglial cells – is cerebral innate immunity modulated by norepinephrine?
- 11.27 - 11.39 **R. Musil**, P. Zill, M. J. Schwarz
Effects of substance P and serotonin on the cytokine production of peripheral blood lymphocytes
- 11.39 - 11.51 **M.J. Schwarz**, M. Riedel, S. Holdenrieder, S. Erning, M. Tischinger, N. Müller
Relationship between Kynurenines and S100b in CSF of schizophrenic patients
- 12.00 - 14.00 **Lunch and Poster Session 2**
- 14.00 **Neuroendocrinology and Immune Function**
Chairs: H.O. Besedovsky / A. del Rey
Invited Speaker: **C. Franceschi**
Inflammation, aging and the neuroendocrine system
- 14.40 - 14.52 **C. Benedict**, S. Dimitrov, L. Marshall, T. Lange J. Born
Sleep enhances circulating Interleukin-7 concentrations in healthy young men
- 14.52 - 15.04 **S.M. Blois**, A.S. Orsal, M. Tometten, R. Joachim, B.F. Klapp, G. Rabinovich, P.C. Arck
Progesterone supplementation abrogates stress-triggered foetal rejection in a mouse model via up-regulation of Galectin-1, Th2 cytokines and CD8+ cell-dependent pathways
- 15.04 - 15.16 **T. Bollinger**, M. Bajtus, S. Dimitrov, W. Solbach
Circadian rhythm of regulatory T cell distribution and function
- 15.16 - 15.45 **Coffee Break**

- 15.45 - 15.57 **S. Capellino**, P. Härle, G. Pongratz, M. Tutolo, R.H. Straub
Increased chromogranin A serum levels in patients with rheumatoid arthritis and systemic lupus erythematosus: Another indication for an activated sympathetic nervous system
- 15.57 - 16.09 **E. Correa-de-Santana**, C. Onofri, M. Labeur,
M. Theodoropoulou, T. Colaco, G.K. Stalla, U. Renner
Bacterial muramyl dipeptide differently affects IL-6 and VEGF production in pituitary folliculostellate TtT/GF cells through NOD2
- 16.09 - 16.21 **S. Dimitrov**, T. Lange, J. Born
Differential circadian regulation of migratory behavior of lymphocyte and monocyte subpopulations via β_2 -adrenoreceptors
- 16.21 - 16.33 **G. Pacheco-Lopez**, R. Doenlen, C. Riether, M.-B. Niemi,
A. del Rey, H. Besedovsky, M. Schedlowski, H. Engler
Peripheral immune consequences of striatal dopamine depletion

[16.45 - 18.15 GEBIN Steering Committee Meeting]

Wednesday, March 07, 2007

- 09.30 **Peripheral Neuroimmune-Endocrine Interactions /**
Joint Meeting of the GEBIN together with the Study Group Dermato-Endocrinology of the ADF
Chairs: R.H. Straub / J. Reichrath
- 09.30 - 09.40 **Joint Meeting Welcome Address**
- 09.40 – 10.20 Invited Speaker 1: **A. Kavelaars**
Inflammatory pain: a novel neuroimmune mechanism for neuronal sensitization
- 10.20 - 10.35 **M. Bigliardi-Qi**, C. Gaveriaux-Ruff, P.L. Bigliardi
Role of cutaneous opioid receptors in pruritus
- 10.35 - 10.50 **J.D. Spencer**, N.C.J. Gibbons, H. Rokos, J.M. Wood, K.U. Schallreuter
Oxidative stress via hydrogen peroxide modulates the pro-opiomelanocortin peptide response in a dose dependent manner
- 10.50 - 11.05 **R.A. Joachim**, B. Handjiski, S. Blois, E.M.J. Peters, B.F. Klapp, R. Paus, P.C. Arck
Stress-triggered skin inflammation and maturation of dendritic cells can be abrogated by blockade of ICAM-1/LFA-1 cross talk
- 11.05 - 11.30 **Coffee Break**

- 11.30 - 11.45 **E. Bodó**, A. Kromminga, M. Laugsch, W. Funk, U. Duske,
W. Jelkmann, R. Paus
Erythropoietin and the hair follicle: a tissue protective cytokine
- 11.45 - 12.00 **C. Riether**, R. Doenlen, M.B. Niemi, H. Engler,
G. Pacheco-López, M. Schedlowski
*Behaviorally conditioned suppression of peripheral T
lymphocyte function and signalling*
- 12.00 - 12.15 **M. Böhm**, U. Raap, M. Schiller, R.H. Straub, H. Haas,
A. Slominski, A. Kapp, T.A. Luger
*Expression and functional significance of HPA axis
components in human basophils*
- 12.15 - 12.30 **J. Reichrath**, C. Schuler, H. Seltmann, M. Seifert, W. Tilgen,
C.C. Zouboulis
*In vitro characterization of the vitamin D endocrine system in
human sebocytes*
- 12.30 - 14.00 **Lunch and Poster Session 3**
- Chairs:** M. Böhm / J. Reichrath
- 14.00 - 14.40 Invited Speaker 2: **R. Paus**
Perspectives in hair follicle neuroendocrinology
- 14.40 - 14.55 **T.W. Fischer**, M.A. Zmijewski, J. Wortsman, A. Slominski
*The indoleamine melatonin suppresses caspase activation in
UV-irradiated human keratinocytes*
- 14.55 - 15.10 **A. Kokot**, M. Schiller, C. Kerkhoff, T. A. Luger, M. Böhm
*Evidence for a modulatory effect of melanocortin peptides on
bleomycin-induced collagen synthesis in human dermal
fibroblasts*

- 15.10 - 15.25 **R.H. Straub**, G. Pongratz, P. Härle, M. Fleck, M. Cutolo, F. Atzeni, C. Antoni, M. Gruenke, J.R. Kalden, J. Schölmerich, H.-M. Lorenz, P. Sarzi-Puttini
Low baseline cortisol and low cortisol in relation to ACTH predict clinical improvement during 12 weeks of anti-TNF antibody therapy in rheumatoid arthritis
- 15.25 - 15.40 **A. Hana**, G. Frongia, A. Gratchev, S. Goerd, H. Kurzen
Involvement of the non-neuronal cholinergic system in acne inversa pathogenesis
- 15.40 - 15.55 **M. Seifert**, B. Diesel, E. Mees, W. Tilgen, J. Reichrath
In vitro analysis of expression and function of splicing variants of the CYP27B1 (25-hydroxyvitamin D-1 α -hydroxylase) gene in human skin
- 15.55 - 16.30 **Coffee Break**
- 16.30 - 16.45 **V. Heib**, M. Becker, T. Warger, G. Rechtsteiner, C. Tertilt, M. Klein, T. Bopp, C. Taube, H. Schild, E. Schmitt, M. Stassen
Murine mast cells prime the development of cytotoxic T cell responses by epicutaneous peptide vaccination with TLR7 ligand as adjuvant
- 16.45 - 17.00 **C.C. Zouboulis**, K. Krause, R. Ganceviciene, S. Angres, A. Schnitger, S. Fimmel, H. Seltmann, N. Hiroi, W.C. Chen, S. R. Bornstein
Corticotropin-releasing hormone is an endocrine and intracrine modifier of human skin functions and is involved in inflammatory skin diseases
- 17.00 -17.15 **B. Nürnberg**, K. Querings, W. Tilgen, J. Reichrath
UV-radiation, vitamin D and skin cancer: how much sun is good for us?

- 17.15 - 17.30 **P. Serznig**, M. Seifert, W. Tilgen, J. Reichrath
Present concepts and future outlook: Function of peroxisome proliferator-activated receptors (PPARs) for pathogenesis, progression and therapy of malignant melanoma
- 17.30 - 17.45 **U. Raap**, M. Schefzyk, M. Bruder, M. Schiller, T. A. Luger, A. Kapp, M. Böhm
The eosinophil - a novel target for the neuropeptide alpha-melanocyte-stimulating hormone
- 17.45 - 18.00 **U.M. Steckelings**, F. Rompe, M. Artuc, A. Hallberg, L. Fändriks, W.-H. Schunck, T. Unger
Angiotensin II and inflammation: studies on AT1- and AT2-receptor coupled signalling using the novel non-peptide AT2-receptor agonist Compound 21
- 18.00 - 18.15 **S. Dubrac**, P. Stoitzner, K. Schoonjans, J. Auwerx, P. Fritsch, N. Romani, M. Schmuth
Immune-regulatory role of PPAR-alpha in the epidermis
- 18.15 - 18.30 **Closing Remarks with Announcement of the Dermato-Endocrinology Research Award 2007**
- 18.30-18.45 **[Member Meeting of the Study Group Dermato-Endocrinology of the ADF]**
- 20.00 **Banquet Evening**
”Historisches Kaufhaus”
- End of Congress**

Poster Session 1

Monday, March 05, 2007, 19.00 - 20.00

Stress, Behaviour and Immune Function

Chairs: S. Elsenbruch / H. Engler

1. **P. Amerio**, F. Gambi, C. Iarlori, M. Reale, G. Vianale, M. Auriemma, R. Muraro, A. Tulli
Psychological, psychopathological characteristics and cytokine pattern in melanoma patients
2. **S. Birkmann**, M. Haack, M. Dalal, T. Pollmächer, A. Schuld
Alterations in amounts and function of white blood cells measured by FACS-analysis in healthy volunteers after dexamethasone administration is subject to circadian time of administration
3. **E.M.J. Peters**, S. Pavlovic Masnikosa, M. Daniltchenko, A.S. Mahr, M. Worm, B.F. Klapp
Stress and allergic disease: re-evaluating psychoneuroimmunologic findings in atopy
4. **H.-W. Clement**, O. Sommer, E. Schulz, E. von Dobschütz
Central Nervous and Systemic reactive oxygen species in endotoxemic shock in mice
5. **P. Heiser**, W. Schreiber, C. Opper, H.-W. Clement, U. Hemmeter, E. Schulz, W. Wesemann, J.C. Krieg
Alterations of the host defense system after sleep deprivation are followed by impaired mood and psychosocial functioning in healthy humans

6. **S. Pavlovic Masnikosa**, A. Örsal, M. Daniltchenko, B.F. Klapp, E.M.J. Peters
Allergic disease reduces stress-coping skills: indications from a mouse model
7. **A. Friebe**, M. J. Schwarz, M. Schmid-Wendtner, M. Volkenandt, F. Schmidt, M. Horn, G. Janssen, M. Schaefer
Pre-treatment levels of sTNF-R1 and sIL-6R are associated with a higher vulnerability for IFN-alpha induced depressive symptoms in patients with malignant melanoma
8. **P. Heiser**, W. Schreiber, C. Opper, H.-W. Clement, U. Hemmeter, E. Schulz, W. Wesemann, J.C. Krieg
Alterations of the serotonergic system after sleep deprivation are followed by impaired mood and psychosocial functioning in healthy humans
9. **S.O. Reber**, N. Beitelrock, D.A. Slattery, F. Obermeier, I.D. Neumann
The effect of chronic subordinate colony housing on depression, anxiety and colonic inflammation: is there a causal link
10. **B. Kundermann**, A. Thum, M. Giesler, B. Flux, P. Klee, A. Haag, J.C. Krieg, U. Hemmeter
Mineralocorticoid receptor modulation by spironolacton and fludrocortisone under a stressful learning task: Relationship between cortisol secretion and learning performance
11. **N. Rohleder**, T.J. Marin, T.L. Waaben, G.E. Miller
Activation of pro- and anti-inflammatory signaling pathways in caregivers of cancer patients
12. **K. Schunke**, C. Wolff, R.H. Straub, V. Stefanski
The influence of social stress on collagen-induced arthritis in laboratory rats: study outline and first results

13. **O. Sommer**, J.F. Vázquez, E. Schulz, H.-W. Clement, E. von Dobschütz
Central nervous formation of reactive oxygen species in endotoxemic shock in NO-synthase treated mice

Poster Session 2

Tuesday, March 06, 2007, 12.00 - 14.00

Neuroimmunology in the CNS /

Neuroimmune-Endocrine Network in Psychiatric Disease /

Neuroendocrinology and Immune Function

Chairs: M. Schwarz / B.L. Fiebich

14. **M. Bette**, M.A.R. Preuss, M. Faber, R. Pulmanusahakul, M.J. Schnell,
 B. Dietzschold, E. Weihe
TNF- α -expressed by a recombinant rabies virus (RV) prevents lethality and enhances innate and adaptive immune responses in the brain
15. **H.S. Bhatia**, R. S. Akundi, E. Candelario-Jalil, A.C.P Oliveira, D. Van Calker,
 B.L. Fiebich
Modulation of cyclooxygenase-2 expression and prostaglandin E2 production by purinergics in activated microglia
16. **C. Depboylu**, L.E. Eiden, M.K.-H. Schäfer, T.A. Reinhart, H. Mitsuya,
 T.J. Schall, E. Weihe
A pivotal neuroimmune regulatory role of fractalkine and its receptor during lentivirus infection in the rhesus monkey brain

17. **I. Herpfer**, B.L. Fiebich, M. Singewald, M. Hamke, K. Lieb
Functional downregulation of the neurokinin 1 receptor by antidepressant, neuroleptics and mood stabilizers
18. **D. Hinze-Selch**, C. Röhl, A. Jeske, F.-J. Müller
Immunological characterization of a human fetal microglial cell line
19. **K. Kramer**, D. Schaudien, U. Eisel, W. Baumgärtner, C. Herden
Experimental infection of TNF α -transgenic mice with the Borna disease virus - characterization of the inflammatory reaction
20. **U. Meyer**, B.K. Yee, J. Feldon
The precise time of prenatal infection predicts symptom subtypes in an animal model of schizophrenia
21. **A.C.P. Oliveira**, E. Candelario-Jalil, H.S. Bhatia, B.L. Fiebich
Signalling pathways involved in microsomal prostaglandin E synthase-1 (mPGES-1) expression in activated primary microglia
22. **M.K-H. Schäfer**, T. Mahal, J. Hao, X. Xu, Z. Wiesenfeld-Hallin, E. Weihe
Neuropathic pain after thoracolumbar spinal ischemia in the rat depends on the severity of innate immune responses in the brain stem
23. **L. de la Fontaine**, M.J. Schwarz, D. Eser, C. Schüle, N. Müller, R. Rupprecht, P. Zwanzger
Effects of experimentally induced panic attacks on neuro-immunological markers
24. **J. Nürnberger**, S. Dehning, R. Gruber, M. Schwarz, M. Riedel, N. Müller
Reduced monocyte activation in Tourette`s syndrome?

25. **P. Härle**, J. Schölmerich, R.H. Straub
Alpha- and beta-adrenoreceptors mediate opposing effects on CD4+ lymphocyte cytokine secretion in healthy and arthritic DBA/1 mice
26. **W. Otten**, E. Kanitz, M. Tuchscherer, B. Puppe, U. Gimsa
Repeated administrations of ACTH during late gestation in pigs: effects on HPA axis, brain neurotransmitter systems, behaviour and immune responses in the offspring
27. **K. Raber**, M. Stephan, T. Skripuletz, S. von Hörsten
A role for neuropeptide Y (NPY) and vascular endothelial growth factor (VEGF) on CD26+CD4+CD25+ T regulatory (Treg) cells in the rat
28. **C. Riether**, S. Wäckerlin, H. Engler, A. Urwyler, T. Krüger, M. Schedlowski
Acute effects of intranasal oxytocin on endocrine parameters and peripheral immune functions in males
29. **S. Schwemmer**, P. Härle, P. Beer, J. Schölmerich, M. Fleck, R.H. Straub
Cardiovascular and pupillary autonomic nervous dysfunction and mortality in patients with rheumatoid arthritis

Poster Session 3

Wednesday, March 07, 2007, 12.30 - 14.00

Peripheral Neuroimmune-Endocrine Interactions

Chairs: P. Härle / M. Steinhoff

30. **A. Faßold**, W. Falk, R.H. Straub
The blockade of neuropilin-2 as a new therapeutic principle in arthritis

31. **S. Elsenbruch**, A. Lucas, P. Cobelens, J. Langhorst, G. Dobos, A. Kavelaars, C.J. Heijnen, M. Schedlowski
In vitro adrenergic and glucocorticoid regulation of cytokine production in inflammatory bowel diseases
32. **J.-S. Grigoleit**, A. del Rey
Interactions between nerve growth factor, immune-derived products and sympathetic innervation in an animal model of autoimmune lymphoproliferative disease
33. **F. Grum**, P. Härle, F. Bataille, J. Schölmerich, T.E.O. Schubert, R.H. Straub
The nerve repellent factor semaphorin 3 C and the distribution of sympathetic and sensory nerves in the colon in Crohn's disease
34. **B. Handjiski**, A. Kuhlmei, H.-J. Peter, R.A. Joachim, E.M.J. Peters, M. Maurer, R. Paus, P.C. Arck
Stress activated cutaneous mast cells hold a central switchboard position in skin inflammation
35. **S. Hasse**, A. Spiegelberger, W. Funk, R. Paus
The neuropeptide calcitonin-gene related peptide (CGRP) reduces hair shaft elongation and induces catagen development in isolated human hair follicles in vitro
36. **M.F. Seidel**, B. Fiebich, K. Lieb, F.-W. Koch, H. Vetter
Nerve growth factor is upregulated by Substance P in serum-free cultured macrophage-like synovial cells
37. **T. Wirth**, A. del Rey
Apoptotic effect of noradrenaline on T regulatory cells

38. **D. Roosterman**, M. Steinhoff
Endothelin-converting-enzyme 1 degrades substance P in endosomes to regulate resensitization of neurokinin-receptor-1

39. **U. Meyer**, J. Feldon, M. Schedlowski
PolyI:C-induced maternal immune challenge during pregnancy affects basal cytokine levels in the adult offspring

40. **D. Roosterman**, M. Steinhoff
Mechanisms of internalization and recycling of somatostatin-receptor

41. **R.H. Straub**, L.Tankó, P.J. Larsen, D.S. Jessop
Higher fitness levels are associated with increased adrenal androgens and decreased plasma IL-6 in peripheral obese but not in lean, central obese, and general obese elderly women