11th Annual Meeting of the PsychoNeuroImmunology Research Society

cosponsored by GEBIN

PNI Meets Chronic Disease

May 26 - 29, 2004, Titisee, Germany
About PNIRS – PsychoNeuroImmunology Research Society

The PsychoNeuroImmunology Research Society is an international organization for researchers in a number of scientific and medical disciplines, including psychology, neurosciences, immunology, physiology, pharmacology, psychiatry, behavioral medicine, infectious diseases, and rheumatology, who are interested in interactions between the nervous and immune systems, and the relationship between behavior and health. An important goal is to conduct basic research that can be translated into clinically relevant health applications.

The PsychoNeuroImmunology Research Society (PNIRS) was incorporated in the state of Pennsylvania in 1993 after a meeting in April of that year and is a nonprofit organization. During the meeting the founding members determined that the purpose of the Society is to promote the study of interrelationships among behavioral, neural, endocrine and immune processes and to encourage collaborations among immunologists, neuroscientists, clinicians, health psychologists and behavioral neuroscientists.

Membership PNIRS:
Membership is open to students and professionals with an interest in PNI research. Annual dues are $130 for full regular membership, and $30 for trainee membership. Dues payment includes an individual subscription to Brain Behavior & Immunity, the official JOURNAL of the society. Please visit the homepage for further details: www.pnirs.org.

Administrative Office PNIRS:
PsychoNeuroImmunology Research Society
6619 Palma Lane
Morton Grove, Illinois 60053-1342 USA
E-Mail: pnirs@pnirs.org

About GEBIN – The German Brain Endocrine Immune Network

The GEBIN is a network that combines activities in different German scientific societies with special interest in Behavior-Neuro-Endocrine-Immune interactions. The GEBIN was founded in November 1997 in Munich during the Volkswagen-Symposium "Neuroimmunologie, Verhalten und Befinden". Spokesmen of the German Society of Biological Psychiatry, the Max-Planck Institute of Psychiatry Munich, the German Society of Medical Psychology, the German Society of Endocrinology, the German Society of Ethology, the German Society of Immunology, the German Society of Neurology, and the German Society of Dermatology build the nodes of the network. The promotion of scientific interactions and the coordination of exchange of information between these different groups is one of the main aims of this network.

For helping to support the 2004 meeting, PNIRS would like to express its appreciation to:

- Johannes Menzel, Academic Press (Elsevier Science)
- Susan Solomon, Fund for PsychoNeuroImmunology
- Michael Stefanek, Fred Altman, The National Cancer Institute, The National Institute of Mental Health. The PNIRS Senior Faculty-Trainee Colloquium is supported by a grant from the National Institute of Mental Health (R13 MH59793).
- Ralf Bäuerle, BIOZOL Diagnostica Vertrieb GmbH, Eching, Germany
- Gerd Neubert, Sigfried Ferner, IBL Gesellschaft für Immunchemie und Immunbiologie mbH, Hamburg, Germany
- Ulrike Kreilinger, Perbio Science GmbH, Bonn, Germany
- Karl-Heinz Kuhn, Biosource Deutschland GmbH, Solingen, Germany
- Lisa Locher, S. Karger AG, Basle, Switzerland
Message From The President of the PNIRS

Dear Colleagues,

To the longstanding members of the PNIRS, thank you for your support. For those people who became members over the last year or two, and particularly to those who became members in response to a communication that was sent earlier this year, welcome! We continue to encourage an increase in membership from countries all over the world. Having international meetings both in the United States and other countries is fostering the philosophy of interaction between colleagues from many countries.

The PNIRS is very supportive of trainees at all levels and encourages the trainees to submit abstracts for both oral and poster presentations. Like all fields of research, it is imperative that we attract junior people because they are the seed corn for the next generation of scientists/clinicians working in psychoneuroimmunology (PNI).

The field of PNI has come a very long way over the last three decades. For those of you who have been working in this area since the 1980s, you know how much skepticism there was about the role of behavior on modulating the immune system. I think all of you would agree that most of that skepticism is gone.

Brain, Behavior and Immunity, which is the Journal for the Society, continues to flourish. The original initiative by the first Editor in Chief, Bob Ader, to establish this journal was an important contribution to the promulgation of the important work being performed in PNI. Keith Kelley, who is now the Editor in Chief, is doing an excellent job building upon Bob Ader's efforts.

The field of PNI is doing quite well. It continues to attract people with a variety of backgrounds who are attracted to working in a multidisciplinary arena. Most importantly, the literature is rich in studies on mechanisms to start to help us understand the implications of the interactions between the central nervous system, endocrine system and immune system. An expanding literature showing that even low levels of stress and depression can produce health outcomes is helping provide momentum to apply what we have learned at the bench to a clinical setting, i.e., translational research. We have to wait and see how these translational research initiatives play out, but from my perspective, it is very exciting to sit back and watch the field move forward this way.

The annual meeting on Amelia Island, Florida, last year was great and reflected the effort and organizational skills of Andy Miller and his colleagues who did a wonderful job. The presentations and posters covered virtually all aspects of PNI and were of high quality. Robert Dantzer, in his role as President, played an important role in the success of the meeting and did an excellent job carrying out the Society's business at the annual business meeting.

This annual meeting in Titisee, Germany that Rainer H. Straub and his group are organizing will provide an opportunity for all of us to get the latest information on where we are as a field. I hope that all of you are as excited as I am about how far we have come, where we are going and the important role that the PNIRS is playing in this process. I look forward to seeing you all here in Titisee, Germany.

Ron Glaser, President
The Ohio State University, Columbus, Ohio, U.S.A.
Current Society Officers PNIRS

President 2003-2004 Ronald Glaser, The Ohio State University
  E-mail: glaser.1@osu.edu
Secretary 2001-2004 Mark Laudenslager, University of Colorado
  E-mail: secretary@pnirs.org
Treasurer 2002-2004 Dana Bovbjerg, Mount Sinai School of Medicine
  E-mail: treasurer@pnirs.org
Past-President 2002-2003 Robert Dantzer, INSERM U394, Bordeaux
  E-mail: E-mail: robert.dantzer@bordeaux.inserm.fr
President-Elect 2004-2005 Virginia M. Sanders, The Ohio State University
  E-mail: sanders.302@osu.edu
Secretary/Treasurer-Elect 2004-2007 Monika Fleshner, University of Colorado-Boulder
  E-mail: fleshner@colorado.edu

Nominating Committee PNIRS

Chair: Robert Dantzer, INSERM U394, Bordeaux
Members: Rob Bonneau, Steve Cole, Margaret Kemeny, Nancy McCain, Virginia M. Sanders

Constitution and Bylaws Committee PNIRS

Chair: Robert Dantzer, INSERM U394, Bordeaux
Members: Virginia M. Sanders, Ron Glaser

Scientific Council PNIRS


Program / Scientific Affairs / Local Arrangements 2003 – 2004, PNIRS

Chair: Ronald Glaser, The Ohio State University
Members: Dana Bovbjerg, Robert Dantzer, Monika Fleshner, Cobi Heijnen, Mark Laudenslager, Virginia M. Sanders, Manfred Schedlowski, Rainer H. Straub

Fundraising Committee PNIRS

Co-Chair: Ron Glaser
Co-Chair: Susan Solomon
Members: Dana Bovbjerg, Robert Dantzer, Keith Kelley, Mark Laudenslager, Andy Miller, Rainer H. Straub
Local Organizing Committee, Titisee, Germany, 2004

Chair: Rainer H. Straub, Dept. of Internal Medicine I, University Hospital, Regensburg, Germany
Members: Angelika Gräber, Florian Grum, Melanie Grünbeck, Peter Härle, Daniel Möbius, Georg Pongratz, Manfred Schedlowski, Claudia Weidler

Current Nodes of the GEBIN

Spokesman: Rainer H. Straub, Dept. of Internal Medicine I, University Hospital, Regensburg, Germany

**German Society of Biological Psychiatry**
Norbert Müller (Munich)
Markus J. Schwarz (Munich)

**German Society of Dermatology**
Markus Böh (Münster)
Thomas Luger (Münster)

**German Society of Endocrinology**
Hugo O. Besedovsky (Marburg)
Jan Born (Lübeck)
Adriana del Rey (Marburg)
Karlheinz Voigt (Marburg)

**German Society of Ethology**
Volker Stefanski (Bayreuth)

**German Society of Immunology**
Rainer H. Straub (Regensburg)
Manfred Schedlowski (Zürich)

**German Society of Medical Psychology**
Manfred Schedlowski (Zürich)

**German Society of Neurology**
Peter Rieckmann (Würzburg)

**Max-Planck Institute for Psychiatry Munich**
Thomas Pollmächer (Munich)
Where are we now?

The Netherlands

Belgium

Luxembourg

France

Switzerland
Titisee, Assembly Hall, Station, Hotels, Banquet Evening

A detailed map of the town can be found at the end of this booklet.

The Conference Center (Kurhaus)

- **Registration**: Second floor, in front of the Large Assembly Hall
- **Meeting**: Second floor, The Large Assembly Hall
- **Reception**: First floor
- **Posters**: First floor, The Poster Hall
- **Lunch**: First floor, The Lunch Bar in the Foyer
- **Cloakroom**: First floor, behind the Lunch Bar
- **Local Information**: First floor, The Tourist Office
- **Industry**: First floor, The Foyer
- **Press Conference**: Second floor, The Restaurant of the Conference Center
Registration:
On site meeting registration will be open 5:00-8:00 pm on Tuesday, May 25 at second floor of the Conference Center and will continue there for the remainder of the meeting from 8:00 am – 6:00 pm.

Late attendees can contact an organizing committee member with a red dot on the name badge to obtain their registration packets.

Phone Number:
Registration Area
Tel.: +49 (0) 7651 988 223
Tel.: +49 (0) 7651 988 224

Locations: (Please see also maps and “Meeting at a glance”)

Registration: The second floor, Conference Center

Messages: Bulletin Board at Registration

PNIRS scholars award program: The Hotel Maritim (By invitation only)

Short course: Room Titisee, The VIP Hotel Trescher (only registered people)

Plenary sessions: The Large Assembly Hall, Conference Center (only registered people)

Meals:
- Breakfast: In the hotels (is included)
- Coffee Breaks: The first floor, Conference Center, The Lunch Bar
- Lunch: The first floor, Conference Center, The Lunch Bar
- Editorial Board Meeting of BBI: Room Titisee, The VIP Hotel Trescher (By invitation only)
- GEBIN Steering Committee: Room Hirschbühl, The VIP Hotel Trescher (By invitation only)
- Trainee Dinner: Restaurant, The VIP Hotel Trescher
- The Education Breakfast Roundtable of the NIH: Room Hirschbühl, The VIP Hotel Trescher

Press conference: Restaurant of the Conference Center

Reception: The first floor, Conference Center

Poster sessions: Poster Room, Conference Center

Council meeting: Room Hirschbühl, The VIP Hotel Trescher (By invitation only)

Pedal boat rally: Titisee boat landing (see map)

Sightseeing tours: Meeting place in front of the Conference Center

The “P” in PNIRS discussion: Room Titisee, The VIP Hotel Trescher

Business meeting: The Large Assembly Hall, Conference Center (only for members)

Banquet: Hensler Hof (Black Forest farm house) (only registered people due to space constraints, no extra costs, tickets at the Registration desk)

GEBIN steering committee: Room Hirschbühl, The VIP Hotel Trescher (By invitation only)

Posters:
There are two poster sessions, 1 and 2, on Thursday, May 27, 04:00-06:00 pm for authors A-M (Session 1), and on Saturday, May 29, 04:00-05:30 pm. for authors N-Z (Session 2). Poster format is width x height = 35 inch x 59 inch = 90cm x 150cm. List of posters and assigned numbers can be found on page 24--.
Meals:
Registration fees include coffee breaks, lunches, a dinner for trainees (only invited trainees), and the Banquet evening (only registered attendees). Refreshments will be provided at the Reception on Wednesday, during the Poster Sessions, and for participants of the PNIRS scholars award program.

Recreation / Fun:

THE PEDAL BOAT RALLY:
This event had a pre-registration but there may still be room available. This event will start around 6:00 pm, Thursday, May 27, at the Titisee Boat landing. The exact location is indicated on the map on last page. Everybody is invited to watch the athletes.

SIGHTSEEING TOUR 1 "FREIBURG"
This event had a pre-registration but there may still be room available. Check the registration desk for potential openings and sign up.
Freiburg is the capital of the black forest. It is located between the Black Forest and the Rhine valley. Enjoy the southern charm of this town with its many cafes, its offer of cultural events (the Cathedral, the Medieval Towers) or simply the variety of shops and gastronomic delights! Freiburg is a flourishing town. Many people come to the town because of the University and many of them remain here - Freiburg has accommodated them all and is today one of the few cities, whose number of inhabitants is growing.
This event will start around 3:00 pm, Friday, May 28. Buses wait in front of the Conference Center.

SIGHTSEEING TOUR 2 “BLACK FOREST FARM HOUSES”
This event had a pre-registration but there may still be room available. Check the registration desk for potential openings and sign up.
The Black Forest (Schwarzwald) stretches 170 kms/106 miles, from Karlsruhe in the north to Basle in the south. It is essentially composed of two densely-wooded ranges, the Feldberg and the Grand Ballon. The Black Forest is a massif itself, both denser and vaster than the Vosges, and crossed by large valleys; but it is the freshness of the woods, streams and springs, the quiet valleys with typical alpine-like houses with long slanting roofs, and the colorful folklore, best exemplified by the rustic production of cuckoo clocks, that give the region its unique character.
On this trip you visit traditional Black Forest farm houses, which are surrounded by meadows and forests. Enjoy a splendid panoramic view. The beautiful, picturesque landscape invites you for walking.
This event will start around 3:00 pm, Friday, May 28. Buses wait in front of the Conference Center.

OTHER TOURS
Other trips are available upon request. Please ask the tourist office at the Conference Center.

THE BANQUET EVENING (Hensler Hof)
This event had a pre-registration but there may still be room available. Check the registration desk for potential openings and sign up. If room is available there are no extra costs (included in the registration fees). Due to space constraints only 200 people can enter the farm house.
The Banquet Evening will be under the roof of a marvelous old Black Forest farm house. Buses to the Hensler Hof will leave in front of the Conference Center on Saturday, May 29, 6:30 pm and 7:00 pm. Buses from the Hensler Hof to the Conference center (the way back) will leave at 10:00 pm (Saturday), 11:00 pm (Saturday), 12:00 pm (Saturday), 1:00 am (Sunday), 2:00 am (Sunday). Walking time from the Conference center to the Hensler Hof is approximately 30 min.
Congratulations to our

2004 PNIRS Trainee Travel Award Recipients

- Avraham, Roi Schwartz, Yossi Rosenne, Ella Melamed, Rivka Ben-Eliyahu, Shamgar
- Bailey, Michael T Engler, Harald Sheridan, John F
- Bilbo, Staci D Levkoff, Lindsay H Mahoney, John H Rudy, Jerry W Watkins, Linda R Maier, Steven F
- Craft, Tara KS DeVries, A Courtney
- Cross, Rebecca L Doering, Lynn V Cowan, Marie J Martinez, Otoniel M
- Eijkelkamp, Niels Cobelens, Pieter M Sanders, Virginia M Heijnen, Cobi J Kavelaars, Annemieke
- Elliott, Jay C Lysle, Donald T
- Emeny, Rebecca T Gao, Dawn Mondal, Tapan Lawrence, David A
- Engeland, Christopher G Cacioppo, John T Marucha, Phillip T
- Farrow, Michael J Head, Cynthia C Padgett, David A
- Gajendrareddy, Praveen K Ilango, Govindasamy Kuppusamy, Periannan Eijkelkamp, Niels Marucha, Phillip T
- Godbout, Jonathan Berg, Brian Richwine, Amy Johnson, Rodney
- Haack, Monika Sanchez, Elsa Broussard, Josiane Regan, Meredith Mullington, Janet M
- Härle, Peter Straub, Rainer H
- Johnson, John D O'Connor, Kevin A Watkins, Linda R Maier, Steven F
- Johnson, Robin R Hare, Katie Conner, Marilyn Hardin, E Ashley Welsh, Thomas Stortz, Ralph Welsh, CJR Meagher, Mary W
- Kin, Nicholas W Podojil, Joseph R Sanders, Virginia M
- Maninger, Nicole Capitantio, John P Mendoza, Sally P
- Motivala, Sarosh J Proudfoot, Kathryn Irwin, Michael
- Nair, Aji Bonneau, Robert H
- Neigh, Gretchen N Bilbo, Staci D Glasper, Erica R DeVries, A Courtney
- Nickerson, Molly Elphick, Gwen Campisi, Jay Fleshner, Monika
- Okun, Michele L Coussons-Read, Mary ME
- Phillips, Anna C Burns, Victoria E Ring, Christopher Carroll, Douglas
- Pollak, Yehuda Ben Menachem, Ofra Ovadia, Hayim Gilboa, Adi Ben Hur, Tamir Soreq, Hermona Yirmiya, Raz
- Richwine, Amy F Berg, Brian M Chen, Jing Godbout, Jonathan P Johnson, and Rodeny W
- Sauer, Timothy B Carrigan, Kelly A Ijames, Stephanie G Lysle, Donald T
- Smith, Taro P Fleshner, Monika
- Thomson, Lisa M Sutherland, Robert G
- Tseng, Raymond J Padgett, David A Dhabhar, Firdaus S Engler, Harald Hunzeker, John T Sheridan, John F
- Veldhuijzen van Zanten, Jet Carroll, Douglas Ring, Christopher Kitas, George
- Walker, Frederick R Tape, Nicolette A Hodgson, Deborah M
- Wiesehan, Jacqueline D Hunzeker, John T Padgett, David A Sheridan, John F
- Wolf, Gilly Gabay, Eran Tal, Michael Shavit, Yehuda Yirmiya, Raz
- Wolf, Jutta M Rohleder, Nicolas Bierhaus, Angelika Nawroth, Peter P Kirschbaum, Clemens

Travel Awards were allocated to the Trainees and their groups according to the quality of the submitted work. The NIMH in conjunction with the PNIRS funded 26 US-Citizens and 9 Non-US-Citizens. The PNIRS Senior Faculty-Trainee Colloquium is supported by a grant from the National Institute of Mental Health (R13 MH59793). This was organized by Michael Irwin, The University of California, Los Angeles.
<table>
<thead>
<tr>
<th>Time</th>
<th>Symposium</th>
<th>Paper Talk</th>
<th>Poster Session</th>
<th>Meal</th>
<th>Meeting</th>
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<tr>
<td>8:00AM - 9:00AM</td>
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<td>Scholar Awards 1: This meeting will take place in the Hotel Maritim 6:00PM - 9:00PM</td>
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<td>9:00AM - 10:00AM</td>
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<td>Scholar Awards 2: This meeting will take place in the Hotel Maritim 6:00PM - 9:00PM</td>
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<td>Scholar Awards 3: This meeting will take place in the Hotel Maritim 6:00PM - 9:00PM</td>
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<td>Scholar Awards 4: This meeting will take place in the Hotel Maritim 6:00PM - 9:00PM</td>
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<td>12:00PM - 1:00PM</td>
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<td>Scholar Awards 5: This meeting will take place in the Hotel Maritim 6:00PM - 9:00PM</td>
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**Tuesday May 25**

- **Assembly Hall (Koshau)**
  - Short Course 9:00AM - 10:30AM
  - Coffee Break 10:30AM - 11:00AM

**Wednesday May 26**

- **Restaurant (Assembly Hall)**
  - Press Conference 5:45PM - 6:45PM

**Thursday May 27**

- **Assembly Hall (Koshau)**
  - Oral Session 1: Innate Immunity 9:00AM - 10:15AM
  - Oral Session 2: Molecular Mediators of PNI Interactions 10:15AM - 11:15AM
  - Oral Session 3: Noninvasive Monitoring of Inflammation 11:15AM - 12:15AM
  - Oral Session 4: Molecular Influences of Stress 2:00PM - 3:30PM

- **Poster Hall (Koshau)**
  - Poster Session 1 4:00PM - 6:00PM

- **Titisee (Trebohr)**
  - Council Meeting 3:30PM - 6:30PM

- **Titisee boat landing**
  - Pedal Boat Rafting 6:00PM - 7:30PM
### Friday, May 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Assembly Hall (Klothau)</th>
<th>Poster Hall (Klothau)</th>
<th>R Hirschbühl (Treschel)</th>
<th>Banquet (Herstel Hof)</th>
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<tbody>
<tr>
<td>9:00AM</td>
<td>Symposium: Cytokines, Neural Plasticity and Memory</td>
<td>Breakfast Roundtable with the NIH 7:30AM - 9:30AM</td>
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<td>9:30AM</td>
<td>Coffee Break</td>
<td>8:00AM - 10:00AM</td>
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<td>Banquet Evening (Herstel Hof) 7:30PM - 9:30PM</td>
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<tr>
<td>10:00AM</td>
<td>Symposium: Pain and Immunity</td>
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<td>11:00AM</td>
<td>Coffee Break</td>
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<td>12:00PM</td>
<td>Lunch Time</td>
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<td>1:00PM</td>
<td>Oral Session 4: Clinical Models of PNI</td>
<td>Business Meeting 6:00PM - 7:15PM</td>
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<td>2:00PM</td>
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<td>Poster Session 3 4:00PM - 5:30PM</td>
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### Saturday, May 29

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<th>Time</th>
<th>Assembly Hall (Klothau)</th>
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<th>Banquet (Herstel Hof)</th>
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<tbody>
<tr>
<td>9:00AM</td>
<td>Oral Session 5: Cytokines and Hormones</td>
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<td>Breakfast Roundtable with the NIH 7:30AM - 9:30AM</td>
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<td>Banquet Evening (Herstel Hof) 7:30PM - 9:30PM</td>
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<tr>
<td>10:00AM</td>
<td>Symposium: Circadian Rhythm Dysregulation of Cortisol and Sleep</td>
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<td>12:00PM</td>
<td>Lunch Time</td>
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<tr>
<td>1:00PM</td>
<td>Oral Session 6: Illness Behavior and Wound Healing</td>
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<td>2:00PM</td>
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<td>Poster Session 3 4:00PM - 5:30PM</td>
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### Additional Activities
- Sightseeing Tours: 2:00PM - 7:00PM
- Trainee Dinner: 8:00PM - 11:00PM
## PNIRS Senior Faculty-Trainee Colloquium

**Supported by a Grant #R13-MH59793 from the National Institute of Mental Health (NIMH)**

May 25, 2004, 6:00 pm to 9:00 pm  
Maritim Hotel, Titisee, Germany

### Opening Remarks: Michael Irwin, UCLA Neuropsychiatric Institute

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
<th>Group D</th>
<th>Group E</th>
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</thead>
</table>
| **Room:** Bärental  
**Faculty:**  
Robert Dantzer  
Raz Yirmiya | **Room:** Schauinsland  
**Faculty:**  
Robert Bonneau  
Virginia Sanders | **Room:** Höllental  
**Faculty:**  
Manfred Schedlowski  
Cobi Heijnen | **Room:** Hochfirst  
**Faculty:**  
Steve Cole  
Monika Fleshner | **Room:** Feldberg  
**Faculty:**  
Shamgar Ben-Eliyahu  
Annemieke Kavelaars |

<table>
<thead>
<tr>
<th>Tara Craft</th>
<th>Michael T. Bailey</th>
<th>Molly Nickerson</th>
<th>Aji Nair</th>
<th>Michael Farrow</th>
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<tbody>
<tr>
<td>IL-1[beta] mediates post-stroke depressive-like behavior in mice</td>
<td>Stress-induced translocation of skin microflora to the inguinal lymph nodes of C57BL/6 mice is not dependent upon wounding</td>
<td>Physical activity alters the brain Hsp72 and IL-1[beta] response to peripheral E.coli challenge and enhances E.coli clearance</td>
<td>Differential effects of corticosterone and the NMDA receptor on microglia function during stress and the impact of these effects on the development of stress-induced HSV-1 encephalitis</td>
<td>Androstenediol may restore stress-impaired transcription through an NF-[kappa]B dependent mechanism</td>
</tr>
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<thead>
<tr>
<th>Lisa M. Thomson</th>
<th>Robin R. Johnson</th>
<th>Christopher G. Engeland</th>
<th>Nicholas W. Kin</th>
<th>Raymond Tseng</th>
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</thead>
<tbody>
<tr>
<td>Sick animals can learn: A dissociation between anorexia, weight loss, and cognition</td>
<td>Chronic Theileris virus infection: Effects of acute phase social stress on development and severity of chronic phase disease</td>
<td>Stress hormones modulate the healing rates of oral wounds</td>
<td>Stimulation of CD86 (B7-2) on a CD40L/IL-4-Activated B cell signals through NF-[kappa]B</td>
<td>Stress-induced regulation of NK activity during an influenza A viral infection</td>
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<tr>
<th>Amy F. Richwine</th>
<th>Jacqueline D. Wiesehan</th>
<th>Praveen K. Gajendrareddy</th>
<th>Nicole Maninger</th>
<th>Timothy B. Saurer</th>
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<tbody>
<tr>
<td>Cognitive and motor deficits in aging mice are paralleled by increases in brain oxidative stress and interleukin-6 (IL-6)</td>
<td>Modulation of immunological memory by social disruption stress</td>
<td>Psychological stress impaired healing: Decreased wound oxygenation as a potential pathway</td>
<td>Relationship of adrenal hormones DHEAS and cortisol to SIV disease in rhesus monkeys</td>
<td>Nucleus accumbens dopamine receptors mediate morphine-induced NK cell suppression</td>
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<tr>
<th>John D. Johnson</th>
<th>Sarosh Motivala</th>
<th>Rebecca Cross</th>
<th>Frederick R. Walker</th>
<th>Jay C. Elliot</th>
</tr>
</thead>
<tbody>
<tr>
<td>The role of IL-1[beta] in stress-induced sensitization of brain IL-1[beta] and corticosterone responses</td>
<td>Acute psychological stress and proinflammatory cytokines in humans: Differential effects on monocyte intracytoplasmic expression and production</td>
<td>Infection, depression, and immunity after coronary artery bypass: A pilot study</td>
<td>The effect of postnatal endotoxin exposure on nociception in adulthood: Hyper-analgesia following immune challenge</td>
<td>Sex differences in opioid modulation of contact hypersensitivity: An investigation of pharmacological specificity and putative effector mechanisms</td>
</tr>
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PNIRS Senior Faculty-Trainee Colloquium
Supported by a Grant #R13-MH59793 from the National Institute of Mental Health (NIMH)

May 25, 2004, 6:00 pm to 9:00 pm
Maritim Hotel, Titisee, Germany

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
<th>Group D</th>
<th>Group E</th>
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<tbody>
<tr>
<td>Room: Bärental</td>
<td>Room: Schauinsland</td>
<td>Room: Höllental</td>
<td>Room: Hochfirst</td>
<td>Room: Feldberg</td>
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<tr>
<td>Faculty: Robert Dantzer</td>
<td>Faculty: Robert Bonneau</td>
<td>Faculty: Manfred Schedlowski</td>
<td>Faculty: Steve Cole</td>
<td>Faculty: Shamgar Ben-Eliyahu</td>
</tr>
<tr>
<td>Raz Yirmiya</td>
<td>Virginia Sanders</td>
<td>Cobi Heijnen</td>
<td>Monika Fleshner</td>
<td>Annemieke Kavelaars</td>
</tr>
</tbody>
</table>

| Staci D. Bilbo            | Taro P. Smith            | Gretchen N. Neigh        | Roi Avraham              | Rebecca Emeny            |
| Neonatal infection induces memory impairments and cytokine alterations following an immune challenge in adulthood | Anti-KLH antibody and delayed-type hypersensitivity responses in older stable coronary artery disease patients | Cardiac arrest/carciopulmonary resuscitation increases the delayed-type hypersensitivity response and alters hypothalamic-pituitary-adrenal axis activity | IL-12-based immunotherapy reduces post-surgery immunosuppression and metastasis, and increases survival from experimental leukemia | The effects of stress on host Immunity: [beta]-adrenergic receptor contribution to stress-induced immunosuppression |

| Jonathan Godbout          | Jet Veldhuijzen van Zant | Monika Haack             | Niels Eijkelkamp         | Anna Phillips            |
| Brain inflammation and weight loss after peripheral challenge with lipopolysaccharide (LPS) are exacerbated in aged mice | Increased inflammatory response to acute psychological and postural stress in patients with rheumatoid arthritis compared to patients with osteoarthritis | Sleep restriction increases IL-6 levels and subjective pain-related symptoms in healthy volunteers | The [beta]2-adrenergic agonist salbutamol modulates LPS-induced cytokine production in vivo in a tissue-specific way | Life events, perceived stress, and upper respiratory tract infection in the elderly following influenza vaccination |

| Yehuda B. Pollak          | Peter Härle              | Michel Okun              | Gilly Wolf               | Jutta M. Wolf           |
| Peripheral acetylcholinesterase inhibitors attenuate IL-1 production in blood and brain | The sympathetic nervous system confers a bimodal effect on arthritis intensity, cumulative arthritis incidence, and cytokine profile in the naive versus effector phase of collagen-induced arthritis | Neuromunological consequences of stress during pregnancy | Impairment of interleukin-1 (IL-1) signaling attenuates neuropathic pain and spontaneous ectopic neuronal activity following nerve injury | Altered pattern of NF[ kappa]B activation after psychosocial stress in patients with atopic diseases |

Wrap-up and Remarks by Representatives from the National Institutes of Health (NIH)
**Detailed Meeting Schedule**

**Wednesday, May 26, 2004**

**The Educational Short Course** *(Room Titisee, Hotel Trescher)*

Chair and Organizer: A del Rey, University Marburg, Germany

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>09:00 AM - 09:20 AM</td>
<td>A del Rey, University Marburg, Germany</td>
<td>Welcome: Chronic diseases, more than a health problem</td>
</tr>
<tr>
<td>PNI: very early</td>
<td>D Hodgson, University of Newcastle, Australia</td>
<td>Effects of early-life immune activation on endocrine, metabolic, behavioral and immune outcomes</td>
</tr>
<tr>
<td>09:20 AM - 09:55 AM</td>
<td>A Kavelaars, University Medical Center Utrecht, The Netherlands</td>
<td>Consequences of early behavioral or pharmacological interventions for the severity of chronic diseases in adult life</td>
</tr>
<tr>
<td>10:30 AM - 10:45 AM</td>
<td>Coffee Break</td>
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<tr>
<td>PNI: rather late</td>
<td>C Kirschbaum, Dresden Technical University, Germany</td>
<td>Stress, hormones, and the immune system: age, sex, and other individual differences</td>
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<tr>
<td>10:45 AM - 11:20 AM</td>
<td>R Johnson, University of Illinois at Urbana-Champaign, USA</td>
<td>Inflammatory cytokines in the aging brain: do they play a role in neurobehavioral deficits and in chronic degenerative disorders?</td>
</tr>
<tr>
<td>11:55 AM - 12:00 PM</td>
<td>Give us your opinion! A discussion.</td>
<td></td>
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</tbody>
</table>
PNIRS 2004

02:00 PM - 02:15 PM  Opening of the PNIRS MEETING (Assembly Hall, Conference Center)
  RH Straub, University Regensburg
  Address of the local organizer

02:15 PM - 03:15 PM  The Presidential Address (Assembly Hall, Conference Center)
  R Glaser, The Ohio State University, Columbus
  Stress-associated immune dysregulation and its importance for human health:
  a personal history of psychoneuroimmunology

03:15 PM - 03:45 PM  Coffee Break (1st floor, Conference Center)

03:45 PM - 05:45 PM  The Presidential Symposium (Assembly Hall, Conference Center)
  Implications of PNI for Health and Quality of Life
  Chair: R Glaser, The Ohio State University, Columbus
    J Kiecolt-Glaser, The Ohio State University, Columbus
    Psychological Influences on Immune Function: Health Implications
  N Schneiderman, University of Miami
    Psychosocial Variables, Immunity and Disease Progression in HIV/AIDS
  M Irwin, University of California, Los Angeles
    Shingles Immunity in the Elderly: Mind-Body Interactions
  C Coe, University of Wisconsin, Columbus
    Applying PNI to understand pain and immunity in fibromyalgia

05:45 PM - 06:45 PM  Press Conference (Restaurant, Conference Center)
  Only for invited people

07:00 PM - 10:00 PM  Reception (1st floor, Conference Center)
Thursday, May 27, 2004

08:30 AM - 09:15 AM **Oral Session 1: Innate Immunity** (Assembly Hall, Conference Center)

Chairs: U Shavit, Hebrew University of Jerusalem; M Harbuz, University of Bristol

MT Bailey, H Engler, JF Sheridan, The Ohio State University, Columbus
Stress-induced translocation of skin microflora to the inguinal lymph nodes of C57BL/6 mice is not dependent upon wounding

JA Bosch, GG Berntson, JT Cacioppo, PT Marucha, University of Illinois at Chicago
Differential mobilization of functionally distinct Natural Killer subsets during acute psychological stress

M Fleshner, C Sharkey, A Asea, JD Johnson, University of Colorado, Boulder
Extracellular Hsp72 released by stress facilitates innate immunity: In vivo & in vitro support

TB Saurer, KA Carrigan, SG Ijames, DT Lysle, University of North Carolina, Chapel Hill
Nucleus Accumbens Dopamine Receptors Mediate Morphine-induced NK Cell Suppression

09:15 AM - 10:15 AM **Oral Session 2: Molecular Mediators of PNI Interactions** (Assembly Hall, Conference Center)

Chairs: M Schedlowski, ETH Zürich; R Weber, UIC, College of Medicine Peoria

RTAM Chang, T Symensma, J Zack, R Sun, S Cole, University of California, Los Angeles, School of Medicine
Beta-adrenergic signaling reactivates human Herpesvirus 8 via PKA modulation of viral RTA

R Dantzer, M Moreau, N Castanon, KW Kelley, University of Bordeaux
Cytokines and Depression: Role of Brain Indoleamine 2,3 Dioxygenase

BL Fiebich, RS Akundi, K Lieb, E Candelario-Jalil, U Haus, T Stratz, W Mueller, E Munoz, University of Freiburg
Serotonin 5-HT3 receptor antagonists inhibit the release of pro-inflammatory cytokines and p38 MAPK activation in human monocytes

A Kavelaars, MS Lombardi, E van der Tweel, F Groenendaal, F van Bel, C Heijnen, University Medical Center Utrecht
Neonatal hypoxic-ischemic brain damage: a role for the GRK and β-arrestin machinery

G Pongratz, VM Sanders, The Ohio State University, Columbus
Higher levels of IgE antibodies are produced after the β2-adrenergic receptor is stimulated on the B-cell surface

10:15 AM - 10:30 AM Coffee Break (1st floor, Conference Center)
10:30 AM - 11:15 AM  **Norman Cousin Memorial Lecture** (Assembly Hall, Conference Center)
Introduction: VM Sanders, The Ohio State University, Columbus

R Glaser, The Ohio State University, Columbus
Stress associated changes in the steady state expression of latent Epstein Barr Virus: Implications for Chronic Fatigue Syndrome and Cancer

11:15 AM - 01:00 PM  **Symposium: Neuroendocrine immune mechanisms in rheumatic diseases** (Assembly Hall, Conference Center)
Chairs: A Kavelaars, University Medical Center Utrecht; M Harbuz, University of Bristol

D Jessop, University of Bristol
Involvement of the HPA axis in mediating effects of stress on arthritis

M Cutolo, University of Genova
The role of androgens and estrogens in rheumatoid arthritis

D Lorton, Sun Health Research Institute, Sun City
RH Straub, University of Regensburg
The role of neuropeptides and monamines in arthritis

C Heijnen, A Kavelaars, University Medical Center Utrecht
Regulation of receptor function by inflammatory processes during arthritis and other autoimmune diseases

H Schaible, University of Jena
Molecular mechanisms of pain sensitization in arthritis

01:00 PM - 02:00 PM  **Lunch time** (1st floor, Conference Center)

01:00 PM - 02:00 PM  **GEBIN Steering Committee Meeting** (Room Hirschbühl, Hotel Trescher)

02:00 PM - 03:30 PM  **Oral Session 3: Cellular and Molecular Influences of Stress** (Assembly Hall, Conference Center)
Chairs: CJ Heijnen, University Medical Center Utrecht; DL Bellinger, Loma Linda University, Loma Linda

J Veldhuijzen van Zanten, D Carroll, C Ring, G Kitas, University of Birmingham (UK)
Increased inflammatory response to acute psychological and postural stress in patients with rheumatoid arthritis compared to patients with osteoarthritis

J Wolf, N Rohleder, A Bierhaus, P Nawroth, C Kirschbaum, Dresden Technical University
Altered pattern of NFκB activation after psychosocial stress in patients with atopic diseases

GE Miller, University of British Columbia, Vancouver
Depressive symptoms are associated with increased c-reactive protein and pathogen burden in patients with stable coronary artery disease
G Neigh, SD Bilbo, ER Glasper, AC DeVries, The Ohio State University, Columbus
Cardiac Arrest/Cardiopulmonary Resuscitation Increases the Delayed-Type Hypersensitivity Response and Alters Hypothalamic-Pituitary-Adrenal Axis Activity

03:30 PM - 04:00 PM  Coffee Break (1st floor, Conference Center)

03:30 PM - 06:30 PM  PNIRS Council Meeting (Room Hirschbühl)

04:00 PM - 06:00 PM  Poster Session 1: Poster Presenters A-M (Poster Hall, Conference Center)
                      Names and titles on page 24 --

06:00 PM - 07:30 PM  Pedal Boat Ralley (Titisee boat landing, see map on last page)

07:30 PM - 09:30 PM  The "P" in PNIRS - A discussion over beer (Room Titisee, Hotel Trescher)
                      Chair: R Glaser, The Ohio State University; M. Irwin, University of California Los Angeles
Friday, May 28, 2004

09:00 AM - 10:30 AM  **Symposium: Cytokines, Neural Plasticity and Memory** (Assembly Hall, Conference Center)

Chairs: Raz Yirmiya, The Hebrew University, Jerusalem; Steve Maier, University of Colorado, Boulder

R Yirmiya, The Hebrew University of Jerusalem
The role of IL-1 in hippocampal-dependent memory processes and neural plasticity

H Besedovsky, University Marburg
Role of brain-born cytokines in synaptic plasticity and memory formation

M Lynch, Trinity College, Dublin
Evidence that IL-1beta plays a role in age-related synaptic dysfunction in the hippocampus: Interaction with antiinflammatory cytokines

S Maier, University of Colorado, Boulder
IL-1 and memory: The role of brain derived neurotrophic factor (BDNF)

10:30 AM - 11:00 AM  **Coffee Break** (1st floor, Conference Center)

11:00 AM - 01:00 PM  **Symposium: Pain and Immunity: Bidirectional Interactions** (Assembly Hall, Conference Center)

Chairs: Gayle Page, Johns Hopkins University, Baltimore; Linda Watkins, University of Colorado, Boulder

L Watkins, University of Colorado, Boulder
An overview of pain modulation by immune and glial activation

Y Shavit, Hebrew University of Jerusalem
IL-1 signaling plays a role in baseline pain sensitivity, in acute opiate analgesia, and in the development of opiate tolerance

S Ben-Eliyahu, Tel Aviv University
The involvement of pain and nociception in the promotion of experimental metastasis by surgery: mediating mechanisms and prophylactic measures

L McGuire, University of Maryland, Baltimore
Cytokines and pain in patients with scleroderma

01:00 PM - 02:00 PM  **Lunch time** (1st floor, Conference Center)

01:00 PM - 02:00 PM  **BBI Editorial Board** (Room Titisee, Hotel Trescher)
By invitation only

02:00 PM - 03:00 PM  **Oral Session 4: Clinical Models of PNI** (Assembly Hall, Conference Center)

Chairs: Gayle Page, Johns Hopkins University, Baltimore; Keith Kelley, University of Illinois
E Chen, EB Fisher, LB Bacharier, RC Strunk, University of British Columbia, Vancouver
Social environment relationships with cytokines and cortisol in adolescents with asthma

RR Johnson, K Hare, M Conner, EA Hardin, T Welsh, R Stortz, CJR Welsh, MW Meagher, Texas A&M University, College Station
Chronic Theiler’s virus infection: effects of acute phase social stress on development and severity of chronic phase disease

IEM Stec, M Erlacher, G Böck, G Wick, GJWiegers, Medical University of Innsbruck
Crosstalk between TCR- and glucocorticoid receptor-mediated apoptosis in thymocytes of normal vs non-obese diabetic mice

C Weidler, C Holzer, M Harbuz, R Hofbauer, P Angele, J Schölmerich, RH Straub, University of Regensburg
Low density of sympathetic nerve fibers and increased density of brain-derived neurotrophic factor–positive cells in rheumatoid arthritis synovium

SJ Yermal, LW Janusek, HL Mathews, Loyola University Chicago
Perioperative Pain, Psychological Distress, and Immune Function During Prostatectomy

03:00 PM - 07:30 PM  Sightseeing Tours

Tour 1: Freiburg: The Capitol of the Black Forest
Tour 2: Black Forest Farm Houses

Buses leave in front of the Conference Center. For further details see page 9.

08:00 PM - 11:00 PM  Trainee Dinner (Restaurant of the Hotel Trescher)
Chair: Virginia “Ginny” M. Sanders, The Ohio State University

Faculty:
Annelieke Kavelaars, University Medical Center Utrecht
Firdaus Dhabhar, The Ohio State University, Columbus
Keith Kelley, University of Illinois, Urbana
Raz Yirmaya, The Hebrew University of Jerusalem
Andy Miller, Emory University, Atlanta
Saturday, May 29, 2004

07:30 AM - 08:30 AM  Breakfast Roundtable with the NCI (Room Hirschbühl, Hotel Trescher)
Chair: M Stefanek, National Cancer Institute, Frederick

09:00 AM - 10:30 AM  Oral Session 5: Cytokines and Hormones (Assembly Hall, Conference Center)
Chairs: C Kirschbaum, Dresden Technical University; AJ Dunn, Louisiana State University Health Science Center, Shreveport

JD Johnson, KA O’Connor, LR Watkins, SF Maier, University of Colorado, Boulder
The Role of IL-1β in Stress-Induced Sensitization of Brain IL-1β and Corticosterone Responses

A Nair, RH Bonneau, Penn State University College of Medicine, Hershey
Differential effects of corticosterone and the NMDA receptor on microglia function during stress and the impact of these effects on the development of stress-induced HSV-1 encephalitis

M Wieczorek, AJ Dunn, Louisiana State University Health Science Center, Shreveport
The role of the vagus nerve in responses to interleukin-1: Behaviour, temperature, brain norepinephrine and HPA axis activation

R Avraham, Y Schwartz, E Rosenne, R Melamed, S Ben-Eliyahu, Tel Aviv University
IL-12-based immunotherapy reduces post-surgery immunosuppression and metastasis, and increases survival from experimental leukemia

TKS Craft, AC DeVries, The Ohio State University, Columbus
IL-1β mediates post-stroke depressive-like behavior in mice

10:30 AM - 11:00 AM  Coffee Break (1st floor, Conference Center)

11:00 AM - 01:00 PM  Symposium: Circadian Rhythm Dysregulation of Cortisol and Sleep (Assembly Hall, Conference Center)
Chairs: David Spiegel, Stanford University; Linda E. Carlson, University of Calgary

M Antoni, University of Miami
Depressive symptoms, urinary cortisol and sleep disruption in women at risk for cervical cancer

LE Carlson, University of Calgary
Improvements in sleep quality and cortisol secretion patterns in cancer outpatients after participation in mind-body interventions

D Spiegel, Stanford University
Flattened Diurnal Cortisol Rhythms in Metastatic Breast Cancer Patients

JE Bower, University of California, Los Angeles
Cortisol and immune responses to experimental psychological stress in breast cancer survivors with persistent fatigue
### Oral Session 6: Illness Behavior and Wound Healing (Assembly Hall, Conference Center)

**Chairs:** R Booth, The University of Auckland; M Antoni, University of Miami

AJ Dunn, R Newman, RA Newman, AH Swiergiel, Louisiana State University Health Science Center, Shreveport  
Neurobehavioural responses to leukemia in mice

DR Johnson, JC O’Connor, GG Freund, University of Illinois, Urbana  
Vanadyl Sulfate Speeds Recovery From Lipopolysaccharide-induced Sickness

DA Lawrence, VJ Bolivar, CA Hudson, Wadsworth Center, Albany  
Autoantibodies, behavior, and neuropsychiatric lupus

P Marucha, C Engeland, J Bosch, J Chou, J Cacioppo, University of Illinois, Chicago  
Adults with depressive symptoms have delayed healing and impaired angiogenic growth factor expression

DA Padgett, CC Head, MJ Farrow, J Akagi, P Mikhli, JF Sheridan, The Ohio State University, Columbus  
Stress-induced regulation of NF-κB activity during wound healing in mice.

AF Richwine, BM Berg, J Chen, JP Godbout, RW Johnson, University of Illinois, Urbana  
Cognitive and motor deficits in aging mice are paralleled by increases in brain oxidative stress and interleukin-6 (IL-6)

### Coffee Break (Poster Hall, Conference Center)

### Poster Session 2: Poster Presenters N-Z (Poster Hall, Conference Center)

Names and titles on page 34--

### Business Meeting (Assembly Hall, Conference Center)

### Banquet Evening (Hensler Hof)

- Buses to the Hensler Hof will leave in front of the Conference Center 6:30 pm and 7:00 pm
- Buses from the Hensler Hof to the Conference center (the way back) will leave at 10:00 pm (Saturday), 11:00 pm (Saturday), 12:00 pm (Saturday), 1:00 am (Sunday), 2:00 am (Sunday).
- Walking time from the Conference center to the Hensler Hof is approx. 30 min.
Poster Session No. 1: Poster Presenters A-M (Poster Hall, Conference Center)

Full names, titles, affiliation, and text can be found on the compact disk provided with registration.


2. Signal Transduction Pathways in Activated Microglia. Ravi S Akundi, Michael Hüll, Klaus Lieb, and Bernd L Fiebich

4. Stress-Triggered Dysregulations of the Immune-Endocrine Equilibrium During Mammalian Pregnancy Is Associated with an Increased Rate of Miscarriages. Petra C Arck, Mirjam Rücke, Sandra Blois, Matthias Rose, Alison Douglas, Julia Szekeres-Bartho, and Burghard F. Klapp


7. The Effects of E. Coli on Hippocampal-Dependent Learning and Memory in Aged Rats. Ruth M. Barrientos, Joseph C. Biedenkapp, David B. Sprunger, Karli J. Wright-Hardesty, Emily A. Higgins, Jerry W. Rudy, Linda R. Watkins, and Steven F. Maier

8. Immunization with Complete Freund’s Adjuvant to Induce Experimental Arthritis in Lewis Rats Increases C-Fos Expression in the Hippocampus. Denise L. Bellinger, Cheri Lubahn, Jeff Carter, Natalie Ruff, Christine Molinaro, and Dianne Lorton


12 DIETARY VITAMIN E AND SELENIUM MODULATE LIPOPOLYSACCHARIDE (LPS)-INDUCED SICKNESS BEHAVIOR IN AGED MICE. Brian M Berg, Jonathan P Godbout, and Rodney W Johnson

13 NEONATAL INFECTION INDUCES MEMORY IMPAIRMENTS AND CYTOKINE ALTERATIONS FOLLOWING AN IMMUNE CHALLENGE IN ADULTHOOD. Staci D. Bilbo, Lindsay H. Levkoff, John H. Mahoney, Jerry W. Rudy, Linda R. Watkins, and Steven F. Maier

14 IMMUNE AND PSYCHOSOCIAL OUTCOMES IN STAGE II-IV HER-2+ BREAST CANCER SURVIVORS FOLLOWING AN 8-WEEK COMPLEMENTARY YOGA INTERVENTION. Sally E. Blank, Jacquelyn L. Banasik, Michelle A. Crowe, Melanie Matson, Joni C. Nichols, Robert Bendel, and Mel R. Haberman

15 STRESS-TRIGGERED ABORTION IN MICE ARE ASSOCIATED WITH TH1 PREDOMINANCE AND MEDIATED BY CELL ADHESION MOLECULES. Sandra M Blois, Mareike Tometten, Burghard F Klapp, Ricardo A Margni, and Petra C Arck

17 EFFECT OF WRITTEN EMOTIONAL EXPRESSION ON IMMUNE FUNCTION IN PATIENTS WITH HIV INFECTION. Roger J Booth, Keith J Petrie, Iris Fontanilla, Mark G Thomas, and James W Pennebaker

18 A COMPREHENSIVE PHENOTYPIC ANALYSIS OF STRESS-INDUCED LYMPHOCYTOSIS. Jos A. Bosch, Firdaus S. Dhabhar, Gary G. Berntson, John T. Cacioppo, and Phillip T. Marucha

19 PROINFLAMMATORY CYTOKINES IMPAIR IGF-I-STIMULATED PROTEIN SYNTHESIS IN SKELETAL MUSCLE MYOFIBERS VIA AN AMINO ACID TRANSPORT-INDEPENDENT MECHANISM. Suzanne R Broussard, Robert H McCusker, Klemen Strle, Wen Hong Shen, Robert Dantzer, and Keith W Kelley

20 KINETICS OF COMPLEMENT CASCADE ACTIVATION FOLLOWING ACUTE PSYCHOLOGICAL STRESS. Victoria E Burns, Kate M Edwards, Mark Drayson, Christopher Ring, and Douglas Carroll

21 EVIDENCE FOR MOOD DISTURBANCE, BUT NOT INCREASED PSYCHOLOGICAL STRESS, PRIOR TO INFLAMMATORY ATTACKS IN PATIENTS WITH HEREDITARY ANGIOEDEMA. Victoria E Burns, Mark Drayson, Christopher Ring, and Douglas Carroll
22 INVOLVEMENT OF CYCLOOXYGENASE-2 IN BLOOD-BRAIN BARRIER DAMAGE AND LEUKOCYTE INFILTRATION FOLLOWING TRANSIENT FOCAL CEREBRAL ISCHEMIA IN RATS. Eduardo Candelario-Jalil, Olga S. Leon, and Bernd L. Fiebich

23 FRONTO-PARIETAL RECRUITMENT ENABLES INTERFERON-ALPHA-TREATED PATIENTS TO MAINTAIN NORMAL PERFORMANCE ON A TASK OF VISUO-SPATIAL ATTENTION. Lucile Capuron, Giuseppe Pagnoni, Marina Demetrashvili, Charles B Nemeroff, Gregory S Berns, and Andrew H Miller

24 CNS ADAPTATION TO CHRONIC PERIPHERAL INFLAMMATION. San Ching, Harald Engler, John Sheridan, and Ning Quan

25 MULTIPLE ROLE OCCUPANCY AND CORTISOL PRODUCTION IN MOTHERS OF PRESCHOOL CHILDREN. Christina Chryssanthopoulou, Julie M. Turner-Cobb, and David Jessop

26 SALIVARY S-IGA IN RELATION TO GENDER, SMOKING STATUS AND AN ACUTE SYMPATHETICALLY AROUSING STIMULUS. Angela Clow, Andre Lynam-Smith, Cathrine Fredhoi, Phil Evans, and Frank Hucklebridge

27 PSYCHOLOGICAL DISTRESS, LIFE STRESSORS, SOCIAL SUPPORT AND ILLNESS PROGRESSION INDICATORS IN NEW IMMIGRANTS WITH HIV. Miri Cohen, Sandra Arad, Margalit Lorber, and Shimon Pollack

28 THE ASSOCIATION OF FORSKOLIN-STIMULATED CYCLIC AMP LEVELS IN PERIPHERAL BLOOD MONONUCLEAR CELLS OF HEALTHY PEOPLE WITH PSYCHOLOGICAL DISTRESS AND SENSE OF COHERENCE. Miri Cohen, Liora Taveron, and Shimon Pollack

29 GENOMIC STRUCTURE OF HUMAN STRESS RESPONSES. Steve Cole, and Weihong Yan

30 INFECTION, DEPRESSION, AND IMMUNITY AFTER CORONARY ARTERY BYPASS: A PILOT STUDY. Rebecca L Cross, Lynn V Doering, Marie J Cowan, and Otoniel M Martinez

31 COMPLEMENTARY YOGA INTERVENTION INCREASES NUCLEAR NF-ΚB IN STIMULATED LYMPHOCYTES OF WOMEN WITH STAGE II-IV HER-2+ BREAST CANCER. Michelle A. Crowe, Mel R. Haberman, Jacquelyn L. Banasik, Joni C. Nichols, Melanie Matson, and Sally E. Blank

32 EFFECTS OF ACUTE AND CHRONIC PSYCHOSOCIAL STRESS ON MADB106 TUMOR METASTASIS IN MALE FISCHER F344 RATS. Lutz Dawils, and Volker Stefanski
33 PRENATAL CORTISOL EXPOSURE AFFECTS SENSITIVITY TO LPS IN YOUNG PIGS. Johanna de Groot, Godelieve Kranendonk, Hans Hopster, Maaike Fillerup, Kees van Reenen, Deborah Hodgson, Wim Boersma, and Marcel Taverne

34 IMMUNOLOGICAL CONSEQUENCES OF NEONATAL CASTRATION IN PIGS. Johanna de Groot, Frank Tuyttens, Maaike Fillerup, Leo Kruijt, Rob Zwart, Norbert Stockhofe-Zurwieden, and Wim Boersma

35 CHANGES IN LEUKOCYTE POPULATIONS IN SURVIVORS OF A NATURAL DISASTER IN VARGAS STATE, VENEZUELA. Crisanta M De Macedo V, Pablo A. Canelones B, Marisol Pocino G, Carlos Villarino, Patricia Rodríguez, Pedro Sánchez, and Marianela Castés B.

36 PHYSIOLOGICAL CONCENTRATIONS OF GROWTH HORMONE AND CORTISOL MODULATE T HELPER 1/ T HELPER 2 IN-VITRO CYTOKINE PRODUCTION IN HUMAN T CELLS. Stoyan Dimitrov, Tanja Lange, Horst-Lorenz Fehm, and Jan Born

37 INCREASES IN INTERLEUKIN-6 FOLLOWING MAXIMAL AND SUBMAXIMAL EXERCISE TASKS: EVIDENCE FOR SIMILAR PROFILES DURING RECOVERY. Kate M Edwards, Victoria E Burns, Douglas Carroll, Mark Drayson, and Christopher Ring

38 ACUTE PSYCHOLOGICAL STRESS DOES NOT PRODUCE A SIGNIFICANT INTERLEUKIN-6 RESPONSE. Kate M Edwards, Victoria E Burns, Mark Drayson, Christopher Ring, and Douglas Carroll

39 THE β2-ADRENERGIC AGONIST SALBUTAMOL MODULATES LPS-INDUCED CYTOKINE PRODUCTION IN VIVO IN A TISSUE-SPECIFIC WAY. Niels Eijkelkamp, Pieter M. Cobelens, Virginia M. Sanders, Cobi J. Heijnen, and Annemieke Kavelaars

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1. Station (Bahnhof)
2. Conference Center (Kurhaus)
3. Trescher’s Hotel
4. Boat landing Titisee (Pedal Boat Rally)
5. Hotel Maritim
6. Hotel Brugger

Banquet evening (Hensler Hof)
Walking distance: 30 min