

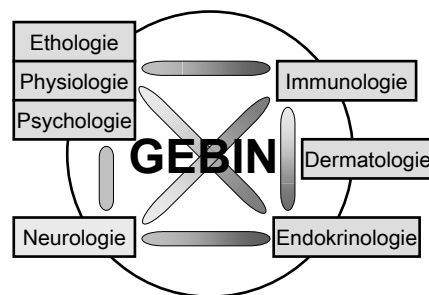
# Universität Bayreuth



## 98. Jahresversammlung der Deutschen Zoologischen Gesellschaft

als gemeinsame Tagung mit dem

### IV. Symposium des German-Brain-Endocrine-Immune-Network



3. bis 6. Oktober 2005

Tagungsprogramm



# Allgemeine Hinweise

**Tagungsort:** Universität Bayreuth, Gebäude NW I und NW II. Beide Gebäude sind nur ca. 200 m voneinander entfernt. Parkmöglichkeiten und Bushaltestellen sind im Lageplan gekennzeichnet. Weitere Details entnehmen Sie bitte dem Lageplan.

**Tagungsbüro:** Das Tagungsbüro ist im Gebäude NW I vor den Hörsälen H 13 (Autrum-Hörsaal) bis H 15 (Emil-Warburg-Hörsaal) eingerichtet. Öffnungszeiten: Montag 13:30-20:00 Uhr, Dienstag bis Donnerstag 8:00 bis 18:30 Uhr. Während der Öffnungszeiten kann das Tagungsbüro unter der Nr. +49-(0)921-552497 telefonisch erreicht werden.

**Namensschilder:** Geben Sie bitte Ihr Namensschild vor Ihrer Abreise wieder am Tagungsbüro zurück. Gelbe Namensschilder kennzeichnen die Bayreuther Organisatoren und deren Helfer, die gerne aufkommende Fragen zu beantworten versuchen.

**Haupt- und Plenarvorträge:** Diese Vorträge, sowie öffentlicher Abendvortrag und Schlussvortrag, finden im Gebäude NW I in den Hörsälen H 13 bis H 15 statt.

**Kurzvorträge:** Für Kurzvorträge ist einheitlich ein Zeitfenster von 15 Min inklusive Diskussion vorgesehen (Vortrag 10 bis 12 Min). Jeder Hörsaal ist ausgestattet mit einem PC und einem Beamer (Auflösung 1024\*768) für PowerPoint-Präsentationen sowie einem Overhead-Projektor. Apple Computer sind nicht vorgesehen. Gegenüber Hörsaal H 18 (NW II) ist ein Medienraum (S 76) eingerichtet; dort können Sie Ihre Präsentationen überprüfen und gegebenenfalls konvertieren. Arbeiten Sie mit PowerPoint, so ist Ihre Datei im entsprechenden Hörsaal so früh wie möglich, spätestens vor Beginn der Sitzung (z. B. Mittags- oder Kaffeepause) auf dem Rechner des Hörsaals zu installieren. Zeit, die während der Sitzung für Überspielen oder Umverkabelungen benötigt wird, geht von Ihrer Vortragszeit ab! Kurzvorträge, die unmittelbar an einen Plenarvortrag anschließen, müssen vor diesem auf den Hörsaalrechner transferiert werden.

Bringen Sie Ihren Vortrag auf einer CD (keine wiederbeschreibbare CD!) oder einem USB-Stick mit. Benennen Sie Ihre Datei entsprechend dem in der Bestätigungsmail an Sie vergebenen persönlichen Code.

**Poster:** Alle Poster werden im Gebäude NW II (Foyer) ausgestellt. Folgen Sie den Hinweisschildern. Poster sind entsprechend der Schwerpunktthemen gruppiert und die Posterwände individuell gekennzeichnet (siehe Bestätigungsmail). Die Größe der Poster ist DIN A0 (90 x 120 cm) Hochformat. Die Postersitzung findet am Dienstag, 4. Oktober 2005 von 16:30 bis 20:30 Uhr bei Bier und Brezeln statt.

Für die Autoren mit geraden Posternummern ist Präsenzpflcht von 17:30 bis 18:30 Uhr, für die mit ungeraden Nummern von 18:30 Uhr bis 19:30 Uhr.

**Verkehrsmittel innerhalb Bayreuths:** Den Tagungsunterlagen liegt ein Busplan bei. Die Buslinien 4 (Universität/Birken) und 6 (Campus) fahren vom Markt zum Campus. Nächstgelegene Haltestelle zum Tagungsort ist die Mensa (siehe Lageplan).

**Verpflegung:** In unmittelbarer Nähe des Campus gibt es keine Restaurants. Mittagsessen kann in der Mensa (oder Cafeteria, kl. Speisen) der Universität eingenommen werden. Der Zahlungsverkehr in der Mensa ist bargeldlos. Chipkarten können im Tagungsbüro zum Preis von 20 € erworben werden. Diese enthalten 5 € Pfand und 15 € Kredit. Weiterer Kredit kann in der Mensa aufgeladen werden. Vor Ihrer Abreise können Sie die Chipkarte an einem Rückgabeautomaten in der Mensa zurückgeben und erhalten Pfand und Restguthaben ausgezahlt.

Während der Kaffeepausen werden kostenlos Kaffee, Tee und Mineralwasser angeboten. Ebenfalls frei sind während der Postersitzung Brezeln, Bier und Mineralwasser, solange der Vorrat reicht. Während des Gesellschaftsabends werden Speisen, alkoholfreie Getränke und Bier kostenlos gereicht.

**Internetzugang:** Im Medienraum (NW II, S 76) ist für die Tagungsteilnehmer ein Internetzugang eingerichtet.

### **Rahmenprogramm:**

Begrüßungsabend: Wie treffen uns ab 20 Uhr im *Oskar*, Maximilianstraße 33. Dieses fränkische Wirtshaus liegt im Zentrum Bayreuths in der Mitte der Fußgängerzone (Markt) und etwa 200 m von der zentralen Bushaltestelle entfernt. Nach dem Abendvortrag werden wir einen Busservice vom Campus zum Markt einrichten. Der Bus fährt bei der Mensa ab. Wer mit seinem Auto zum *Oskar* fährt, findet Parkmöglichkeiten auf dem Parkplatz am Rathaus. Von dort ist es durch die Eysserhaus-Passage bis zum *Oskar* etwa 5 min Fußweg.

Gesellschaftsabend: Dieser beginnt am Mittwoch 20 Uhr im *Herzogkeller*, Kulmbacher Straße 60. Vom Markt (zentralen Bushaltestelle) aus erreicht man den *Herzogkeller* westwärts der B 85 folgend am Rotmaincenter und der Brauerei Maisel vorbei nach ca. 500 m auf der linken Straßenseite. Parkmöglichkeiten bestehen von der Einfahrt zum Maisel-Parkplatz nach rechts zum Parkplatz unterhalb des *Herzogkellers*. Am späteren Abend werden Busse vom *Herzogkeller* zum Markt und den größeren Hotels fahren. Einzelheiten geben wir noch bekannt.

Montag, 3. 10. 2005

Uhrzeit	H 15 - NW I	K 1 - Geo	
ab 14:00		<b>Sitzung</b> Vorstand der DZG	<b>Anmeldung</b>  im Foyer vor dem Autrum Hörsaal (H 13) Gebäude NW I
ab 16:00		<b>Sitzung</b> Vorstand der DZG gemeinsam mit dem wissenschaftl. Beirat	
18:00	<b>Eröffnung der Tagung</b> <b>Grußadressen</b> <b>Formalia</b>		
18.45	<b>öffentlicher Abendvortrag</b>  <b>Wolfgang Wiltschko</b> (Univ. Frankfurt)  <b>Wie Tiere das</b> <b>Erdmagnetfeld</b> <b>wahrnehmen und nutzen</b>		
ab 20.00	Informelles Treffen <b>Gaststätte "Oskar"</b> Maximilianstr.33		

Schwerpunktsthemen	Code	Vortrags-Code
Genes, hormones and development	GHD	1_V_1.01 bis 1_V_3.18
Multitrophic interactions	MI	2_V_1.01 bis 2_V_5.21
Cognition and cultural evolution	CCE	3_V_1.01 bis 3_V_4.22
Current approaches to biodiversity assessment	CAD	4_V_1.01 bis 4_V_6.28
Terrestrial adaptations	TA	5_V_1.01 bis 5_V_2.10
Epithelial sodium channels in animals	ESC	6_V_1.01 bis 6_V_2.10
Microcircuits	MC	7_V_1.01 bis 7_V_2.06
German Endocrine Brain Immune Network	GEBIN	8_V_1.01 bis 8_V_8.32

Dienstag, 4. 10. 2005

Uhrzeit	H 15 - NW I	H 13 - NW I	H 14 - NW I	H 16 - NW II	H 18 - NW II	H 19 - NW II	H 20 - NW II
8:30	<b>Luc-Alain Giraldeau</b> (Univ. Québec)  <b>Group foraging and inadvertent social information</b>						
9:15	<b>Ian Baldwin</b> (MPI Chem. Ökologie)  <b>Why entomologists continue to push the frontiers of plant-insect interactions</b>						
10:00	<b>Kaffeepause (30 min)</b>						
10:30		<b>Jennifer A. Clack</b> (Cambridge Univ.)  <b>Early tetrapods emerging</b>	<b>Cecilia Canessa &amp; Tatiana Coric</b> (Yale Univ.)  <b>ENaC/Degenerin family of ion channels: Structure and function</b>				
11:15	<b>Pause (15 min)</b>						
11:30		<b>Jörg Reichrath</b>		<b>MI</b>	<b>ESC</b>	<b>CAD</b>	<b>CCE</b>
11:45		8 H 0.01		2 V 1.01 - 04	6 V 1.01 - 04	4 V 1.01 - 04	3 V 1.01 - 04
12:00		<b>GEBIN</b>					
12:15		8 V 1.01 - 02					
12:30	<b>Mittagspause (60 min)</b>						

Uhrzeit	H 15 - NW I	H 13 - NW I	H 14 - NW I	H 16 - NW II	H 18 - NW II	H 19 - NW II	H 20 - NW II
13:30		<b>GEBIN</b>		<b>MI</b>	<b>ESC</b>	<b>CAD</b>	<b>CCE</b>
13:45		8_V_2.03 - 06		2_V_2.05 - 09	6_V_2.05 - 10	4_V_2.05 - 09	3_V_2.05 - 09
14:00							
14:15							
14:30							
14:45	<b>Kaffeepause (30 min)</b>						
15:15		<b>GEBIN</b>		<b>MI</b>		<b>CAD</b>	<b>CCE</b>
15:30		8_V_3.07 - 10		2_V_3.10-13		4_V_3.10 - 13	3_V_3.10 - 13
15:45							
16:00							
16:15	<b>Pause (15 min)</b>						
16:30	<b>Poster DZG und GEBIN: mit Bier und Brezeln</b> <b>Gebäude NW II, Foyer</b>			<b>Arbeitskreis Chancengleichheit</b> <b>in der Biologie</b>			
	<b>Anwesenheitspflicht der Autoren an ihren Postern:</b> <b>gerade Posternummern      17.30 bis 18:30 Uhr</b> <b>ungerade Posternummern    18:30 bis 19:30 Uhr</b>						
20:30	<b>Ende</b>						

Mittwoch, 5. 10. 2005

9

Uhrzeit	H 15 - NW I	H 13 - NW I	H 14 - NW I	H 16 - NW II	H 18 - NW II	H 19 - NW II	H 20 - NW II
8:30	<b>Robert Dantzer</b> (INSERM, Bordeaux)  <b>Cytokines in the brain: From sickness behaviour to depression</b>						
9:15	<b>Shamgar Ben-Eliyahu</b> (Tel Aviv Univ.)  <b>Surgery and stress as risk factors for tumor progression: mediating mechanisms of immuno-suppression and potential prophylactic measures</b>						
10:00	<b>Kaffeepause (30 min)</b>						
10:30		<b>Carsten Rahbek</b> (Zool. Mus., Copenhagen)  <b>Geographic variation in patterns of species richness and the role of range sizes: a macroecological perspective</b>	<b>Ole Kiehn</b> (Karolinska Inst., Stockh.)  <b>Physiological and genetic determinations of neuronal circuits controlling walking in mammals</b>				
11:15	<b>Pause (15 min)</b>						
11:30		<b>Agustin Zapata</b>		<b>MI</b>	<b>GHD</b>	<b>CAD</b>	<b>MC</b>
11:45		8 H 0.02		2 V 4.14-17	1 V 1.01 - 04	4 V 4.14 - 17	7 V 1.01 - 04
12:00		<b>GEBIN</b>					
12:15		8_V_4.11 - 12					
12:30	<b>Mittagspause (60 min)</b>						



Uhrzeit	H 15 - NW I	H 13 - NW I	H 14 - NW I	H 16 - NW II	H 18 - NW II	H 19 - NW II	H 20 - NW II
13:30		<b>GEBIN</b>	<b>Studiengruppen Mitgliederversammlung</b> <b>Ort siehe Aushang - Tagungsbüro</b>				<b>MC</b>
		8_V_5.13 - 19					7_V_2.05 - 06
14:30			<b>H.-J. Bode (DFG)</b> <b>Tipps für Antragsteller</b>				
15:30	<b>Kaffeepause (30 min)</b>						
16:00		<b>GEBIN</b>	<b>DZG</b>  <b>Mitglieder-</b> <b>versammlung</b>				
16:15		8_V_6.20 - 25					
16:30							
16:45							
17:00							
17:15			<b>Preisverleihungen</b>				
17:30			<b>Walther Arndt Preis</b>				
			<b>Angelika Stollwerk</b> (Cambridge, UK)				
			<b>Horst Wiehe Preis</b>				
			<b>Martin Fanenbruck</b> (Bochum)				

ab 20.00 **Gesellschaftsabend "Herzogkeller"** (Kulmbacher Str. 60)

Donnerstag, 6. 10. 2005

8

Uhrzeit	H 15 - NW I	H 13 - NW I	H 14 - NW I	H 16 - NW II	H 18 - NW II	H 19 - NW II	H 20 - NW II
8:30	<b>Ernst Wimmer</b> (Univ. Göttingen)  <b>Arthropod head development: a comparative molecular approach</b>						
9:15	<b>Beat Lutz</b> (Univ. Mainz)  <b>The role of the endo-cannabinoid system in the maintenance of the body's homeostasis</b>						
10:00	<b>Kaffeepause (30 min)</b>						
10:30		<b>Josbert Metselaar et al.</b> (Univ. Utrecht)  <b>Liposomal targeting of glucocorticoids as novel treatment strategy for inflammatory disorders</b>	<b>Elizabeth Hammock &amp; Larry Young</b> (Yerkes, Emory Lab.)  <b>Junk DNA and the evolution of social behavior</b>				
11:15	<b>Pause (15 min)</b>						
11:30		<b>GEBIN</b>		<b>TA</b>	<b>GHD</b>	<b>CAD</b>	<b>MI</b>
11:45		8_V_7.26 - 29		5_V_1.01-04	1_V_2.05-08	4_V_5.18 - 21	2_V_5.18-21
12:00							
12:15							
12:30	<b>Mittagspause 60 min</b>						

Uhrzeit	H 15 - NW I	H 13 - NW I	H 14 - NW I	H 16 - NW II	H 18 - NW II	H 19 - NW II	H 20 - NW II
13:30		<b>Brian Leonard</b>		<b>TA</b>	<b>GHD</b>	<b>CAD</b>	<b>CCE</b>
13:45		8_H_0.03		5_V_2.05-10	1_V_3.09 - 18	4_V_6.22 - 28	3_V_4.14 - 22
14:00		<b>GEBIN</b>					
14:15		8_V_8.30 - 32					
14:30							
14:45							
15:00							
15:15							
15:30							
15:45							
16:00	<b>Kaffeepause (30 min)</b>						
16:30	<b>Posterprämierung</b>						
16:45	<b>öffentlicher Schlußvortrag</b>						
	<p><b>Michael Tomasello</b> (MPI für evol. Anthropologie)</p> <p><b>Chimpanzee social cognition and social strategies</b></p>						
17.30	<b>Verabschiedung DZG und GEBIN</b>						

**Begleitprogramm GEBIN: Educational Short Course in Psychoneuroimmunology**
**H 12, NW I**
**Montag, 3.10.05: 14.00 - 18.00 Uhr**
**Dienstag, 4.10.05: 08.30 - 10.30 Uhr**

## Eröffnung der Tagung

### Grußadressen

Montag, 3.10.2005, NW I, H 15

18:00-18:45

**Dr. Dieter Mronz**

Oberbürgermeister der Stadt Bayreuth

**Prof. Dr. Georg Krausch**

Vizepräsident der Universität Bayreuth

**Prof. Dr. Diethard Tautz**

Präsident der Deutschen Zoologischen Gesellschaft

**Prof. Dr. Rainer H. Straub**

Koordinator German-Brain-Endocrine-Immune-Network

### Öffentlicher Abendvortrag

Montag, 3.10.2005, NW I, H 15

Sitzungsleiter: D. von Holst (Bayreuth)

18:45-19:45

**Wie Tiere das Erdmagnetfeld wahrnehmen und nutzen**

Wolfgang Wiltschko (Frankfurt)

P. 01

**DZG Genes, hormones and development****Plenarvorträge**

Donnerstag, 6.10.2005, NW I, H 15

Sitzungsleiter: K.H. Hoffmann (Bayreuth)

- 8:30-9:15 **Arthropod head development: a comparative molecular approach** P.02  
Ernst A. Wimmer (Göttingen)
- 9:15-10:30 **The role of the endocannabinoid system in the maintenance of the body's homeostasis** P.03  
Beat Lutz (Mainz)

**Plenarvortrag**

Donnerstag, 6.10.2005, NW I, H 14

Sitzungsleiter: N. Sachser (Münster)

- 10:30-11:15 **Junk DNA and the evolution of social behaviour** P.04  
Elizabeth Hammock, Larry Young (Nashville; Atlanta, USA)

**Kurzvorträge**

Mittwoch, 5.10.2005, NW II, H 18

**Session 1**

Sitzungsleiter: K.H. Hoffmann (Bayreuth)

- 11:30-11:45 **Chemical and morphological characterisation of peptidergic systems in the larval ventral ganglion of *Drosophila melanogaster*** 1\_V\_1.01  
Christian Wegener, Jonathan González Santos, Matthias Vömel, Reinhard Predel (Marburg; Jena)
- 11:45-12:00 **Neuroendocrine regulation of lipid and glycogen synthesis in the insect fat body by adipokinetic hormone** 1\_V\_1.02  
Matthias W. Lorenz (Bayreuth)
- 12:00-12:15 **Gene functions of allatoregulating neuropeptides in the cricket *Gryllus bimaculatus* and in the moth *Spodoptera frugiperda*** 1\_V\_1.03  
Martina Meyering-Vos, Klaus H. Hoffmann (Bayreuth)
- 12:15-12:30 **Distribution, steroid regulation and identification of neuropeptides in the developing antennal lobe of the sphinx moth *Manduca sexta*** 1\_V\_1.04  
Joachim Schachtner (Marburg)

**Kurzvorträge**

Donnerstag, 6.10.2005, NW II, H 18

**Session 2**

Sitzungsleiter: N. Sachser (Münster)

- |             |  |          |
|-------------|--|----------|
| 11:30-11:45 | <b>Dynamic spatial resource use as an inbreeding-avoidance mechanism in parasitic wasps</b><br>Andra Thiel, Dieter Wienrich, Thomas S. Hoffmeister (Bremen)                  | 1_V_2.05 |
| 11:45-12:00 | <b>Flower dummy experiments with bumblebees (<i>Bombus terrestris</i>) on the optimal presentation of flower signalling areas</b><br>Martin Wagner, Klaus Lunau (Düsseldorf) | 1_V_2.06 |
| 12:00-12:15 | <b>Influence of scent-marks on flower choice: experiments in an artificial flower array with bumblebees</b><br>Sebastian Witjes, Thomas Eltz (Düsseldorf)                    | 1_V_2.07 |
| 12:15-12:30 | <b>Species-specific attraction to tibial odors in male <i>Eulaema</i> orchid bees</b><br>Yvonne Zimmermann, Thomas Eltz (Düsseldorf)   | 1_V_2.08 |

**Kurzvorträge**

Donnerstag, 6.10.2005, NW II, H 18

**Session 3**

Sitzungsleiter: M.W. Lorenz (Bayreuth)

- |             |   |          |
|-------------|---|----------|
| 13:30-13:45 | <b>Expression of calreticulin in different organs of <i>Eisenia fetida</i> (Annelida, Lumbricidae) visualized by in situ hybridization</b><br>Martin Bilej, Marcela Silerova, Petra Prochazkova, Ludmila Tuckova, Ellen Kauschke (Prague, Czech Republic; Greifswald) | 1_V_3.09 |
| 13:45-14:00 | <b>Female decisions! Consequences of social partner choice on reproductive success in house mice</b><br>Andrea Weidt, Barbara König (Zürich, Switzerland)   | 1_V_3.10 |
| 14:00-14:15 | <b>Development of sensory organs in the spider <i>Cupiennus salei</i></b><br>Angelika Stollewerk, Katrina Gold, Ernst-August Seyfarth (Cambridge, UK; Frankfurt)  | 1_V_3.11 |
| 14:15-14:30 | <b>Quantitative genetics and behavioural correlates of digit ratio in the zebra finch</b><br>Wolfgang Forstmeier (Starnberg)  | 1_V_3.12 |
| 14:30-14:45 | <b>Bioacoustic variation, genetic variation and mate choice in Central American tungara frogs, <i>Physalaemus pustulosus</i></b><br>Heike Pröhl (Hannover; Austin, USA; Balboa, Panama)   | 1_V_3.13 |
| 14:45-15:00 | <b>Unique structures (fat bodies) and cerebellar modifications in the brain of domestic ducks and their impact on behaviour</b><br>Julia Cnotka, Inga Tiemann, Heiko D. Frahm, Gerd Rehkämper (Düsseldorf)  | 1_V_3.14 |
| 15:00-15:15 | <b>A putative magnetosensory pathway in migratory birds</b><br>Dominik Heyers, Martina Manns, Harald Luksch, Onur Güntürkün, Henrik Mouritsen (Oldenburg; Bochum; Aachen)   | 1_V_3.15 |

- 15:15-15:30 **Dynamics in families of the Mongolian gerbil (*Meriones unguiculatus*)** 1\_V\_3.16  
Rene Weinandy, Elke Scheibler, Rolf Gattermann (Halle)
- 15:30-15:45 **Relationship between reproductive investment and parameters of the immune system: a study on free-ranging female European rabbits** 1\_V\_3.17  
Manuela Zapka, Heiko G. Rödel, Lutz Dawils, Frank Uhl, Dietrich von Holst (Bayreuth)
- 15:45-16:00 **Mice selected for high or low stress reactivity: a proposed model for affective disorders** 1\_V\_3.18  
Chadi Touma, Mirjam Bunck, Melanie Keßler, Markus Nußbaumer, Rainer Landgraf (München)

## Posterpräsentation

Dienstag, 4.10.2005, Foyer NW II

- 17:30-18:30 **gerade Posternummern**  
18:30-19:30 **ungerade Posternummern**
- Half-orphans are not subdominant in wild cavies** 1\_Po\_01  
Oliver Adrian, Linn Lisa Raddatz, Nadja Scharf, Norbert Sachser (Münster)
- Exploration behaviour and social interactions in juvenile European rabbits (*Oryctolagus cuniculus*)** 1\_Po\_02  
Barbara Bruchner, Heiko G. Rödel, Christine Geier, Dietrich von Holst (Bayreuth)
- Analysis of volatile substances in the urine of the tree shrew (*Tupaia belangeri*) using a portable gas chromatograph (zNose®)** 1\_Po\_03  
Barbara Caspers, Juergen Streich, Dietrich von Holst, Christian C. Voigt (Berlin; Bayreuth)
- Lactation modifies the immunological stress response in laboratory rats** 1\_Po\_04  
Marco Fuhrmann, Volker Stefanski (Bayreuth)
- Effects of different housing conditions in a transgenic mouse model of Alzheimer`s disease** 1\_Po\_05  
Nicole Görtz, Oliver Ambrée, Lars Lewejohann, Kathy Keyvani, Werner Paulus, Norbert Sachser (Münster)
- Opsin genes seen in blind Placozoa** 1\_Po\_06  
Mario Hönemann, Stephen Dellaporta, Bernd Schierwater (Hannover)
- Unity within rabbit groups: a question of complementary sex-specific asymmetric forces** 1\_Po\_07  
Paul Ernst Kaetzke, Dietrich von Holst (Bayreuth)

- Genetic evidence of polygynandry in a wild house mouse population** 1\_Po\_08  
Maira Camani, Andrea Weidt, Gerald Kerth, Barbara König (Zürich, Switzerland)
- Biogenic amine receptors from *Periplaneta americana*: Cloning efforts and expression analysis** 1\_Po\_09  
Christian Krach, Britta Troppmann, Arnd Baumann, Wolfgang Blenau (Potsdam-Golm; Jülich)
- Wild rabbit pup responsiveness to the pure rabbit mammary pheromone** 1\_Po\_10  
Christfried-Alexander Kurz, Heiko G. Rödel, Gérard Coureaud, Benoist Schaal, Dietrich von Holst (Bayreuth; Dijon, France)
- Coexistence of three species of Cheirogaleidae in a littoral forest in southeast Madagascar** 1\_Po\_11  
Petra Lahann (Hamburg)
- Endocrine signals and caste determination in the termite *Mastotermes darwiniensis*** 1\_Po\_12  
Jago Liss, Sebastian Klaus, Klaus H. Hoffmann, Manfred Kaib (Bayreuth)
- Responses of European rabbits to predator odour: a test under semi-natural conditions** 1\_Po\_13  
Raquel Monclús, Heiko G. Rödel, F. Javier de Miguel, Dietrich von Holst (Madrid, Spain; Bayreuth)
- Comparative study of reproduction success in laboratory and wild golden hamsters (*Mesocricetus auratus*)** 1\_Po\_14  
Karsten Nasdal, Peter Fritzsche, Karsten Neumann, Rolf Gattermann (Halle)
- Differences in parental care and pair bonding in dwarf hamsters of the genus *Phodopus*** 1\_Po\_15  
Sabine Neumann, Karsten Neumann, Rolf Gattermann (Halle)
- Olfactory signals of male *Tupaia belangeri* and their relevance for MHC - dependent female choice** 1\_Po\_16  
Thorsten Becker, Diana Pflücke, Antje Rahnfeld, Dietrich von Holst (Bayreuth)
- Positive and negative density-dependence of predation risk on different spatial scales: a study on juvenile European rabbits** 1\_Po\_17  
Heiko G. Rödel, Tina Türk, Christine Geier, Dietrich von Holst (Bayreuth)
- Serotonin receptors of the honeybee *Apis mellifera*** 1\_Po\_18  
Jana Schlenstedt, Arnd Baumann, Wolfgang Blenau (Potsdam; Jülich)
- Antp* genes in Odonata** 1\_Po\_19  
Anja Schöner, O. Schmitt, Bernd Schierwater, Heike Hadry (Hannover)
- Reproductive strategies in female striped mice: Communal versus singular breeding** 1\_Po\_20  
Melanie Schubert, Carsten Schradin, Dietrich von Holst, Neville Pillay (Bayreuth; Johannesburg, South Africa)



- Moon nights modify melanin transparency in larval ocelli shielding pigment** 1\_Po\_21  
 Kirsten Schuchardt, Gerta Fleissner, Dietrich Neumann, Günther Fleissner (Frankfurt; Köln)
- Integration in social groups affects reproduction of primiparous female European rabbits** 1\_Po\_22  
 Anett Starkloff, Heiko Rödel, Dietrich von Holst (Bayreuth)
- Developmental dynamics of the axio-appendicular link in *Rana temporaria* tadpoles** 1\_Po\_23  
 Johannes Streicher, T.P.T. Truong, Roland Blumer, Christine Pomikal (Wien, Austria)
- Development and steroid regulation of Mas-allatotropin immunostaining in antennal lobe neurons of the sphinx moth *Manduca sexta*** 1-Po\_24  
 Sandra Utz, Wolf Huetteroth, Joachim Schachtner (Marburg)
- Crustacean hyperglycemic hormones (CHH)- and ion transport peptides (ITP) in central and peripheral neurones of crustaceans and insects** 1\_Po\_25  
 Heinrich Dircksen, Uwe Heyn, Fahad Elghazali, Edward Kravitz, Daniel Soyez (Stockholm, Sweden; Bonn; Boston, USA; Paris, France)
- Incest avoidance in tree shrews** 1\_Po\_26  
 Katja Woidacki, Mandy Richter, Michaela Brückner, Frank Uhl, Dietrich von Holst (Bayreuth)
- A longterm fate map of the first postotic somites in *Ambystoma mexicanum*** 1\_Po\_27  
 Nadine Piekarski, Lennart Olsson (Jena)



- 14:15-14:30 **Drowned in sorrow: surfactants in lepidopteran regurgitate act as anti-predator defence** 2\_V\_2.08  
Michael Rostás, Katrin Blassmann (Würzburg)
- 14:30-14:45 **Wing induction in aphids - a new function of aphid alarm pheromone** 2\_V\_2.09  
Grit Kunert, Wolfgang W. Weisser (Jena)

### Kurzvorträge

Dienstag, 4.10.2005, NW II, H 16

#### Session 3

Sitzungsleiterin: K. Böhning-Gaese (Mainz)

- 15:15-15:30 **Chemical defence of rove beetles (Coleoptera: Staphylinidae) updated** 2\_V\_3.10  
Konrad Dettner, Andrea Beran, Tanja Dreja, Susanne Erbach, Elisabeth Helldörfer, Matthias Kador, Michael Köhler (Bayreuth)
- 15:30-15:45 **A feeding deterrent sensitive neuron on the antenna of a subterranean termite** 2\_V\_3.11  
Manfred Kaib, Gregor Hardiess, Stefan Mikus, Karsten Fehler, Wittko Francke (Bayreuth; Hamburg)
- 15:45-16:00 **Chemoreception of amino acids by the rhinophore of *Aplysia punctata*** 2\_V\_3.12  
Adrian Wertz, Wolfgang Rössler, Ulf Bickmeyer (Helgoland; Würzburg)
- 16:00-16:15 **Interactions between soil bacteria, protozoa and plants: effects on bacterial community and plant growth** 2\_V\_3.13  
Katja Schröder, Kristin Krome, Michael Bonkowski, Stefan Scheu (Darmstadt)

### Kurzvorträge

Mittwoch, 5.10.2005, NW II, H 16

#### Session 4

Sitzungsleiter: S. Scheu (Darmstadt)

- 11:30-11:45 **Beyond the 'tip of the iceberg' – a unique acoustic microscopy technique reveals hidden morphological defences** 2\_V\_4.14  
Christian Laforsch, Wolfgang Grill, Wilfried Ngwa, Ralph Tollrian (Martinsried; Leipzig; Lancaster, UK)
- 11:45-12:00 **Influence of marine and terrestrial detritivores on the decomposition in saltmarshes** 2\_V\_4.15  
Anett Pfaunder, Martin Zimmer (Kiel)
- 12:00-12:15 **Costs and benefits of living in a mouldy world** 2\_V\_4.16  
Marko Rohlf (Kiel)
- 12:15-12:30 **Fungi and seed disperser as selective agents on fruit colour** 2\_V\_4.17  
H. Martin Schaefer, Veronika Schaefer (Feiburg)

**Kurzvorträge**

Donnerstag, 6.10.2005, NW II, H 20

**Session 5**

Sitzungsleiter: S. Scheu (Darmstadt)

- |             |  |          |
|-------------|--|----------|
| 11:30-11:45 | <b>When reproduction is dangerous: Dynamic escape strategies in parasitoids</b><br>Thomas S. Hoffmeister, Karen Zimmermann, Berhard D. Roitberg (Bremen; Burnaby, Canada)                  | 2_V_5.18 |
| 11:45-12:00 | <b>Influence of host plant and vegetation structure parameters on a monophagous and a polyphagous leaf beetle species on multiple spatial scales</b><br>Elisabeth Obermaier (Rauhenebrach) | 2_V_5.19 |
| 12:00-12:15 | <b>Nutrient balance of ants as a driving force in a tritrophic system of ants, aphids and beans</b><br>Evelyn Schumacher, Christian Platner, Matthias Schaefer (Göttingen)                 | 2_V_5.20 |
| 12:15-12:30 | <b>Intraguild interactions between spiders and ants in a dry grassland</b><br>Dirk Sanders, Christian Platner, Matthias Schaefer (Göttingen)   | 2_V_5.21 |

**Posterpräsentation**

Dienstag, 4.10.2005, Foyer NW II

- |                            |   |         |
|----------------------------|---|---------|
| 17:30-18:30<br>18:30-19:30 | <b>gerade Posternummern</b><br><b>ungerade Posternummern</b>  |         |
|                            | <b>Spatial models of food webs</b><br>Carolin Banašek-Richter, Ulrich Brose (Darmstadt)   | 2_Po_01 |
|                            | <b>Bromophenols, secondary metabolites from marine organisms, disturb cellular calcium signaling in neuroendocrine cells depending on number and position of bromine</b><br>Ulf Bickmeyer, Thomas Hassenklöver, Michael Assmann (Helgoland; Hamburg; Bremerhaven) | 2_Po_02 |
|                            | <b>Trophic interactions mediated by a plant: a herbivore does not "mind" bacterial infection</b><br>Charlotte Böll, Jürgen Zeier, Caroline Müller (Würzburg)  | 2_Po_03 |
|                            | <b>The mating system of <i>Panorpa alpina</i> (Mecoptera: Panorpidae)</b><br>Gerhild Bornemann, Klaus-Peter Sauer (Bonn)  | 2_Po_04 |
|                            | <b>Allometric scaling laws yield positive diversity-stability relationships in complex ecological networks</b><br>Ulrich Brose (Darmstadt)  | 2_Po_05 |

- Host switches as an opportunity for speciation - using ecology, karyology, and molecular markers to investigate species limits in a leaf beetle** 2\_Po\_06  
Susanne Dobler, Beate Hub, Anna Schmidt, Eduard Petitpierre (Hamburg; Palma de Mallorca, Spain)
- Sexual attractants in black fungus gnats: Biological significance of female sex pheromones in three *Bradysia* species (Diptera: Sciaridae)** 2\_Po\_07  
Jürgen Frank, Konrad Dettner (Bayreuth)
- Do termites regulate pheromone concentration on trails?** 2\_Po\_08  
Stefan Gross, Manfred Kaib (Bayreuth)
- Scent trail marking with a pheromone from the labial glands in the stingless bee *Trigona recursa* (Hymenoptera, Apidae, Meliponini)** 2\_Po\_09  
Stefan Jarau, Claudia Schulz, Wittko Francke, Ronaldo Zucchi, Friedrich G. Barth, Manfred Ayasse (Ulm; Hamburg; Sao Paulo, Brazil; Wien, Austria)
- Interactions between soil bacteria, protozoa and plants: effects on bacterial community and plant growth** 2\_Po\_10  
Kristin Krome, Katja Schröder, Michael Bonkowski, Stefan Scheu (Darmstadt)
- Functional diversity in decomposition processes: detritivores and microbial colonisers** 2\_Po\_11  
Malte Mews, Martin Zimmer (Kiel)
- Influence of low frequency sound on marine fish** 2\_Po\_12  
Christina Müller-Blenkle, Karin Lüdemann, Rudolf Kafemann, Andreas Elepfandt (Hamburg; Berlin)
- Manipulation of herbivores' favourite dishes: UV radiation causes changes in preference and performance** 2\_Po\_13  
Kerstin Reifenrath, Carolin Öller, Vera Wolf, Caroline Müller (Würzburg)
- Stridulation in the context of digging behavior in leaf-cutting ants** 2\_Po\_14  
Steffen Pielström, Flavio Roces (Würzburg)
- Chemical communication in social parasitic bumblebees** 2\_Po\_15  
Anna Sramkova, Stefan Schröder, Dieter Wittmann, Manfred Ayasse (Ulm; Bonn)
- How to make long-lasting coatings with defensive secretions** 2\_Po\_16  
Gunther Tschuch, Peter Lindemann, Willi Rettig, Gerald Moritz (Halle)

**DZG Cognition and cultural evolution****Plenarvortrag**

Dienstag, 4.10.2005, NW I, H 15

Sitzungsleiterin: K. Witte (Bielefeld)

8:30-9.15 **Group foraging and inadvertent social information** P.06  
Luc-Alain Giraldeau (Montréal, Canada)

**Kurzvorträge**

Dienstag, 4.10.2005, NW II, H 20

**Session 1**

Sitzungsleiterin: K. Witte (Bielefeld)

11:30-11:45 **Regulation of reproductive division of labor in the ant** 3\_V\_1.01  
***Camponotus floridanus*: Mechanisms of mutual control by workers**  
Annett Endler, Jürgen Liebig, Bert Hölldobler (Würzburg; Tempe, USA)

11:45-12:00 **Reduced male mating vigour in selection lines of a butterfly** 3\_V\_1.02  
Klaus Fischer (Bayreuth)

12:00-12:15 **Mating duration in birch bugs: which sex wears the pants?** 3\_V\_1.03  
Klaus Reinhold, Albia Consul (Bonn; Bielefeld)

12:15-12:30 **Extra-pair fertilisations increase the opportunity for sexual selection in a socially monogamous bird species** 3\_V\_1.04  
Tim Schmoll, Volker Janzon, Verena Dietrich, Wolfgang Winkel, Jörg T. Epplen, Thomas Lubjuhn (Bonn; Braunschweig; Cremlingen; Bochum)

**Kurzvorträge**

Dienstag, 4.10.2005, NW II, H 20

**Session 2**

Sitzungsleiterin: S. Kaiser (Münster)

13:30-13:45 **Group decision-making in a social mammal, the Bechstein's bat** 3\_V\_2.05  
Gerald Kerth (Zürich, Switzerland)

13:45-14:00 **Social, spatial and temporal cognition during foraging by flower bats (*Glossophaginae*)** 3\_V\_2.06  
Lucie Salwiczek, Kai Petra Stich, Angelika Oppelt, York Winter (München)

14:00-14:15 **The attachment of horse to man, a tool for investigating social learning in horses** 3\_V\_2.07  
Konstanze Krueger (Regensburg)

14:15-14:30 **Cultural evolution in fish: Conflict in mate-choice copying** 3\_V\_2.08  
Klaudia Witte (Bielefeld)

14:30-14:45 **Correlated responses to selection for high learning ability in *Drosophila*** 3\_V\_2.09  
Munjong Kolss, Frederic Mery, Tadeusz J. Kawecki (Fribourg, Switzerland)

**Kurzvorträge**

Dienstag, 4.10.2005, NW II, H 20

**Session 3**

Sitzungsleiterin: S. Kaiser (Münster)

- |             |  |          |
|-------------|--|----------|
| 15:15-15:30 | <b>Resource dependent male mating effort in the scorpionfly <i>Panorpa vulgaris</i>: saliva secretion as an honest signal for male quality</b><br>Sierk Engels, Klaus-Peter Sauer (Bonn) | 3_V_3.10 |
| 15:30-15:45 | <b>Sperm competition in the scorpionfly <i>Panorpa germanica</i> (Mecoptera, Panorpidae)</b><br>Dagmar Kock, Klaus-Peter Sauer (Bonn)  | 3_V_3.11 |
| 15:45-16:00 | <b>Mate choice in scorpionflies: phenotypic variance and heritability of foraging success in <i>Panorpa vulgaris</i></b><br>Merle Missoweit, Klaus-Peter Sauer (Bonn)                    | 3_V_3.12 |
| 16:00-16:15 | <b>Who is the father? Sperm competition in <i>Panorpa communis</i></b><br>Barbara W. Siegmund, Klaus-Peter Sauer, Arne Nolte (Bonn; Köln)  | 3_V_3.13 |

**Kurzvorträge**

Donnerstag, 6.10.2005, NW II, H 20

**Session 4**

Sitzungsleiterin: B. Hellriegel (Berlin)

- |             |  |          |
|-------------|--|----------|
| 13:30-13:45 | <b>Are diploid male orchid bees (Euglossini) evolutionary dead ends?</b><br>Thomas Eltz (Düsseldorf)   | 3_V_4.14 |
| 13:45-14:00 | <b>Virgin doves and mated hawks: contest behaviour in the golden orb spider <i>Nephila fenestrata</i></b><br>Lutz Fromhage, Jutta M. Schneider (Hamburg)   | 3_V_4.15 |
| 14:00-14:15 | <b>Genital damage in an orb-weaving spider (Araneae: Araneida) increases paternity success</b><br>Stefan Nessler, Gabriele Uhl, Jutta M. Schneider (Hamburg; Bonn)   | 3_V_4.16 |
| 14:15-14:30 | <b>Immunocompetence of extrapair and within-pair young in the polygynous red bishop (<i>Euplectes orix</i>)</b><br>Ralf Edler, Thomas Friedl (Oldenburg)   | 3_V_4.17 |
| 14:30-14:45 | <b>Symbionts for pathogen defense: Bacteria protect wasp larvae from fungal infestation</b><br>Martin Kaltenpoth, Wolfgang Göttler, Gudrun Herzner, Erhard Strohm (Würzburg; Regensburg)                   | 3_V_4.18 |
| 14:45-15:00 | <b>Evolutionary genetics of the rodent genus <i>Microtus</i>: rapid speciation and selection on nuclear and mitochondrial markers</b><br>Sabine Fink, Laurent Excoffier, Gerald Heckel (Bern, Switzerland) | 3_V_4.19 |
| 15:00-15:15 | <b>Dispersal patterns and fine-scale genetic structure among habitat patches of the common vole (<i>Microtus arvalis</i>)</b><br>Manuel Schweizer, Laurent Excoffier, Gerald Heckel (Bern, Switzerland)    | 3_V_4.20 |

15:15-15:30 **Evolution of the OR37 subfamily of olfactory receptors: a cross species comparison** 3\_V\_4.21  
 Reiner Hoppe, Thomas D. Lambert, Paul B. Samollow, Heinz Breer, Joerg Strotmann (Stuttgart; San Antonio, USA)

15:30-15:45 **Subspecies - Species transition in domestic chickens of the breed White Crested Polish** 3\_V\_4.22  
 Inga Tiemann, Julia Cnotka, Gerd Rehkämper (Düsseldorf)

### Öffentlicher Schlußvortrag

Donnerstag, 6.10.2005, NW I, H15

Sitzungsleiter: D. Tautz (Köln)

16:45-17:30 **Chimpanzee social cognition and social strategies** P.11  
 Michael Tomasello, Leipzig

### Posterpräsentation

Dienstag, 4.10.2005, Foyer NW II

17:30-18:30 **gerade Posternummern**  
 18:30-19:30 **ungerade Posternummern**

**Recombinant expression of molluscan hemocyanin (KLH) substructures in prokaryotic and eukaryotic systems** 3\_Po\_01  
 Valesca Boisguérin, Ralf Dürr, Kay Büchler, Bernhard Lieb, Jürgen Markl (Mainz)

**Determination of evolutionary relationships in *Phodopus* species (Rodentia: Cricetidae) based on proto-oncogene cFOS** 3\_Po\_02  
 Elke Weiler, Claus-Peter Brix (Bochum; Tübingen)

**Proteomic analysis of the setal gland product from *Lumbricus terrestris*** 3\_Po\_03  
 Jan Büllesbach, Simone König, Anna-Maria Mehlich, Nico Michiels (Münster; Tübingen)

**Individual variability in the announcement call of the clawed frog, *Xenopus laevis laevis* (Pipidae)** 3\_Po\_04  
 Andreas Elepfandt, Ralf Heinemann (Berlin)

**A sensitive Gaussmeter in the pigeon's beak - Theoretical implications of nanomagnetism for the putative primary magnetoreceptor processes based on fine-structural details of magnetite-containing dendrites** 3\_Po\_05  
 Gerta Fleissner, Branko Stahl, Peter van Aken, Eric Barnert, Gerald Falckenberg, Günther Fleissner (Frankfurt; Darmstadt; Hamburg)

**3D-Reconstruction of *Nautilus pompilius* hemocyanin based on cryoelectron microscopy** 3\_Po\_06  
 Christos Gatsogiannis, Ulrich Meißner, Frank Depoix, Arne Moeller, Jürgen Markl (Mainz)



- The importance of social relationships among female hamadryas baboons (*Papio hamadryas*)** 3\_Po\_07  
Christine Hrubesch, Hans Winkler, Signe Preuschoft (Gänserndorf; Wien, Austria)
- Two “heads” today, my Hox has gone away – Expression and inhibition of *Cnox-3* in *Eleutheria dichotoma* (Hydrozoa)** 3\_Po\_08  
Wolfgang Jakob, Bernd Schierwater (Hannover)
- ParaHox-genes in the Cnidarian *Eleutheria dichotoma*: Cluster organization?** 3\_Po\_09  
Kai Kamm, Bernd Schierwater (Hannover)
- Cambrian fossils and the phylogeny of Arthropoda** 3\_Po\_10  
Andreas Maas, Dieter Waloszek, Junyuan Chen, Andreas Braun (Ulm; Nanjing, China; Bonn)
- The evolution of activity breaks during the nest cycle of a primitively eusocial bee** 3\_Po\_11  
Oliver Mitesser, Norbert Weißel, Erhard Strohm, Hans-Joachim Poethke (Rauhenebrach; Würzburg; Regensburg)
- Asymmetrical expression of retinal cryptochrome in a migratory bird: a possible transducer for the avian magnetic compass** 3\_Po\_12  
Andrea Möller, Sven Sagasser, Bernd Schierwater, Wolfgang Wiltschko (Frankfurt; Hannover)
- MHC and mate choice in tree shrews (*Tupaia belangeri*)** 3\_Po\_13  
Claus Oppelt, Tabea Mann, Dietrich von Holst (Bayreuth)
- Active genes orthologous to the highly specialized hagfish “thread” keratins alpha and gamma also exist in lamprey, teleost fish and amphibians** 3\_Po\_14  
Michael Schaffeld, Jan Schultess (Mainz; Frankfurt)
- Regulation of brood size in burying beetles: timing and selectivity of infanticide** 3\_Po\_15  
Sandra Steiger, Wenbe Hwang, Josef K. Müller (Freiburg)
- A microsatellite based genome screen for selective sweeps in the house mouse suggests a high frequency of positive selection events in natural populations** 3\_Po\_16  
Meike Thomas, Diethard Tautz (Köln)
- ‘Orsten’ – A review of 30 years of research** 3\_Po\_17  
Dieter Waloszek, Andreas Maas, Klaus J. Müller, Andreas Braun, Martin Stein (Ulm; Bonn; Uppsala, Sweden)

## DZG Current approaches to biodiversity assessment

### Plenarvortrag

Mittwoch, 5.10.2005, NW I, H 13

Sitzungsleiter: R. G. Beutel (Jena)

- 10:30-11:15 **Geographic variation in patterns of species richness and the role of range sizes: a macroecological perspective** P.07  
Carsten Rahbeck (Kopenhagen, Denmark)

### Kurzvorträge

Dienstag, 4.10.2005, NW II, H 19

#### Session 1

Sitzungsleiter: M. Ohl (Berlin)

- 11:30-11:45 **Radiation in termites: comparison between recognition cues and phylogeny** 4\_V\_1.01  
Florian Lengyel, Roland Brandl, Stephan Franke, Wittko Francke, Fujio Hyodo, Manfred Kaib (Bayreuth; Marburg; Hamburg; Kyoto, Japan)
- 11:45-12:00 **On the road to speciation? – Dynamics of hybrid zones in fire-bellied toads (*Bombina*)** 4\_V\_1.02  
Beate Nürnberger (Planegg-Martinsried)
- 12:00-12:15 **The problem of species complexes and sibling species – differentiation of the *Stylonychia mytilus* complex (Ciliophora, Protozoa) by fluorescence in situ hybridization (FISH)** 4\_V\_1.03  
Stephanie L. Schmidt, Detlef Bernhard, Martin Schlegel, Johannes Fried (Leipzig; Freising)
- 12:15-12:30 **Do small mammals affect plant diversity? – Field studies in Namaqualand, South Africa, a biodiversity hotspot** 4\_V\_1.04  
Christina Keller, Carsten Schradin (Münster; Johannesburg, South Africa)

### Kurzvorträge

Dienstag, 4.10.2005, NW II, H 19

#### Session 2

Sitzungsleiter: R. Brandl (Marburg)

- 13:30-13:45 **Functional redundancy or synergism: a closer look at biodiversity** 4\_V\_2.05  
Martin Zimmer (Kiel)
- 13:45-14:00 **Molluscan mitochondrial genomes are different** 4\_V\_2.06  
Gerhard Steiner, Hermann Dreyer (Wien, Austria)
- 14:00-14:15 **Species richness of migratory birds is influenced by global climate change** 4\_V\_2.07  
Nicole Lemoine, Katrin Böhning-Gaese (Mainz)

- 14:15-14:30 **Ecological niche differentiation in the leaf beetle genus *Oulema* (Coleoptera: Chrysomelidae)** 4\_V\_2.08  
Jens Krobbach, Susanne Dobler (Hamburg)
- 14:30-14:45 **Coarse woody debris, a prerequisite for snail diversity (Mollusca: Gastropoda) in Central European primeval forests?** 4\_V\_2.09  
Heike Kappes, Werner Topp, Peter Zach, Jan Kulfan (Köln; Zvolen, Slovakia)

### Kurzvorträge

Dienstag, 4.10.2005, NW II, H 19

#### Session 3

Sitzungsleiter: R. Brandl (Marburg)

- 15:15-15:30 **Genetic and morphometric analysis of Greenlandic wolf spiders (Araneae, Lycosidae): phylogeny, biogeography and life cycle** 4\_V\_3.10  
Jörg U. Hammel, Michael Nickel (Stuttgart)
- 15:30-15:45 **The phylogenetic position of the enigmatic wasp family Heterogynaidae (Hymenoptera: Apoidea)** 4\_V\_3.11  
Michael Ohl, Christoph Bleidorn (Berlin)
- 15:45-16:00 **Reverse taxonomy: an approach towards determining the diversity of meiobenthic organisms based on ribosomal RNA signature sequences** 4\_V\_3.12  
Melanie Markmann, Diethard Tautz (Martinsried; Köln)
- 16:00-16:15 **Lateral organs in sedentary polychaetes (Annelida) - Ultrastructure and phylogenetic significance of an insufficiently known sense organ** 4\_V\_3.13  
Günter Purschke, Harald Hausen (Osnabrück; Berlin)

### Kurzvorträge

Mittwoch, 5.10.2005, NW II, H 19

#### Session 4

Sitzungsleiter: R. G. Beutel (Jena)

- 11:30-11:45 **The sperm pumps of Strepsiptera and Antliophora (Hexapoda)** 4\_V\_4.14  
Frank Hünefeld, Rolf G. Beutel (Jena)
- 11:45-12:00 **Non-random mating: A key to stable coexistence in a sexual parasite-host system** 4\_V\_4.15  
Heinz-Ulrich Reyer (Zürich, Switzerland)
- 12:00-12:15 **Echolocation, manoeuvrability and flight path selection in the northern bat, *Eptesicus nilssonii*** 4\_V\_4.16  
Moritz Haupt, Sabine Schmidt (Hannover)
- 12:15-12:30 **The pterothoracic skeleton and musculature of Scirtoidea (Coleoptera: Polyphaga) and its implications on the relationships of the beetle suborders** 4\_V\_4.17  
Frank Friedrich, Rolf G. Beutel (Jena)

### Kurzvorträge

Donnerstag, 6.10.2005, NW II, H 19

#### Session 5

Sitzungsleiter: C. Lüter (Berlin)

- |             |  |          |
|-------------|--|----------|
| 11:30-11:45 | <p><b>Genetic and morphometrical variation in the African termite <i>Schedorhinotermes lamanianus</i></b><br/>                 Roland Brandl, Lena Wilfert, Walter Durka, Manfred Kaib (Marburg; Bayreuth; Halle)</p>  | 4_V_5.18 |
| 11:45-12:00 | <p><b>Population genetics in the African libellulid dragonfly <i>Trithemis arteriosa</i></b><br/>                 Sandra Giere, Heike Hadrys (Hannover)</p>  | 4_V_5.19 |
| 12:00-12:15 | <p><b>Comparison of population structure between two endemic freshwater crab species from the Greater Antilles: <i>Epilobocera sinuatifrons</i> from Puerto Rico and <i>Sesarma dolphinum</i> from Jamaica</b><br/>                 Tobias Santl, Christoph D. Schubart (Regensburg)</p> | 4_V_5.20 |
| 12:15-12:30 | <p><b>Genetic diversity in the Jamaican bromeliad crab <i>Metopaulias depressus</i> between and within populations</b><br/>                 Luise Heine, Christoph Schubart (Regensburg)</p>   | 4_V_5.21 |

### Kurzvorträge

Donnerstag, 6.10.2005, NW II, H 19

#### Session 6

Sitzungsleiter: C. Lüter (Berlin)

- |             |  |          |
|-------------|--|----------|
| 13:30-13:45 | <p><b>Systematics and biogeography of gecarcinuroid freshwater crabs</b><br/>                 Sebastian Klaus, Christoph Schubart, Dirk Brandis (Heidelberg; Regensburg; Frankfurt)</p>  | 4_V_6.22 |
| 13:45-14:00 | <p><b>Morphological and genetic variability within the freshwater shrimp <i>Xiphocaris elongata</i> (Decapoda: Caridea: Xiphocarididae) from Puerto Rico</b><br/>                 Silke Reuschel, Christoph D. Schubart (Regensburg)</p>     | 4_V_6.23 |
| 14:00-14:15 | <p><b>Habitat type and genetic population differentiation in freshwater animals</b><br/>                 Andreas Marten, Martin Brändle, Roland Brandl (Marburg)</p>   | 4_V_6.24 |
| 14:15-14:30 | <p><b>Genetic comparisons of German populations of the stone crayfish, <i>Austropotamobius torrentium</i> (Crustacea: Astacidae)</b><br/>                 Christoph D. Schubart, Martin Huber (Regensburg)</p>                               | 4_V_6.25 |
| 14:30-14:45 | <p><b>Impact of different agricultural practices on the genetic structure of <i>Microtus arvalis</i>, <i>Arion lusitanicus</i> and <i>Lumbricus terrestris</i></b><br/>                 Ralf Kautenburger (Saarbrücken)</p>                  | 4_V_6.26 |
| 14:45-15:00 | <p><b>Diversity and trophic structure of the decomposer fauna and its activity in deciduous forests with contrasting tree species diversity</b><br/>                 Nadine Fahrenholz, Christian Platner, Matthias Schaefer (Göttingen)</p> | 4_V_6.27 |

15:00-15:15 **Seasonality of resources and nest predation influence life history traits of temperate and tropical *Sylvia* species** 4\_V\_6.28  
 Hans-Christian Schaefer, Katrin Böhning-Gaese (Mainz; Halle)

## Posterpräsentation

Dienstag, 4.10.2005, Foyer NW II

17:30-18:30 gerade Posternummern

18:30-19:30 ungerade Posternummern

**Species-specificity in social calls of three species of tree shrews (*Tupaia spp.*)** 4\_Po\_01

Dagmar Esser, Heike de Vries, Elke Zimmermann (Hannover)

**3D-Reconstruction of soft embedded histological section series** 4\_Po\_02

Michael Gudo, Mark Peinl, Verena Schöning (Frankfurt/M)

**Phenotypic and genetic diversity in the strawberry dart-poison frog, *Dendrobates pumilio*** 4\_Po\_03

Sabine Hagemann, Heike Pröhl (Hannover)

**Species differentiation of the Mediterranean sponge genus *Aplysina* based on cytochrome oxidase subunit I** 4\_Po\_04

Isabel Heim, Franz Brümmer (Stuttgart)

**Coarse woody debris – Influence of a structural element on density of soil macro-arthropods in forest ecosystems** 4\_Po\_05

Marc Jabin, Werner Topp (Köln)

**Phylogeny of the Scutigermorpha (Myriapoda, Chilopoda): insights derived from the peristomatic organs** 4\_Po\_06

Markus Koch, Gregory D. Edgecombe (Berlin; Sydney, Australia)

**Two contrasting interpretations of phylogenetic relationships among freshwater crabs of Sulawesi lakes: gonopods and nuclear DNA versus mtDNA** 4\_Po\_07

Peter Koller, Tobias Santl, Christoph D. Schubart (Regensburg)

**Obligate parthenogenetic reproduction in the bushcricket *Poecilimon intermedius*** 4\_Po\_08

Gerlind U.C. Lehmann, Arne W. Lehmann (Berlin; Stahnsdorf)

**Toward a phylogeny of thecideid brachiopods** 4\_Po\_09

Carsten Lüter (Berlin)

**The phylogeny of Strepsiptera (Hexapoda)** 4\_Po\_10

Hans Pohl, Rolf G. Beutel (Jena)

**Identification of dragonflies: DNA barcoding** 4\_Po\_11

Jessica Rach, Bernd Schierwater, Heike Hadrys (Hannover)

- Evidence for a polygynous mating strategy in males of tree shrews (*Tupaia belangeri*)** 4\_Po\_12  
Simone Schehka, Elke Zimmermann (Hannover)
- Genetic differentiation between populations of the European rose hip fly *Rhagoletis alternata* (Diptera:Tephritidae)** 4\_Po\_13  
Andrea Vaupel, Katrin Lehmann, Martin Brändle, Volker Wissemann, Teja Tschardtke, Roland Brandl (Marburg; Göttingen; Jena)
- Genetic consequences of a man-made bottleneck in *Orthetrum coerulescens*: A microsatellite system to study fine scale population dynamics** 4\_Po\_14  
Antonia Wargel, Sandra Giere, Heike Hadrys (Hannover)

**DZG Terrestrial adaptations****Plenarvortrag**

Dienstag, 4.10.2005, NW I, H 13

Sitzungsleiter: S. Perry (Bonn)

10:30-11:15 **Early tetrapods emerging** P.08  
Jennifer A. Clack (Cambridge, UK)

**Kurzvorträge**

Donnerstag, 6.10.2005, NW II, H 16

**Session 1**

Sitzungsleiter: S. Perry (Bonn)

11:30-11:45 **The functional morphology of sponge tissue and skeleton in contraction of the *Tethya wilhelma* (Porifera, Demospongiae)** 5\_V\_1.01  
Michael Nickel (Stuttgart)

11:45-12:00 **Biomechanics of an active tactile sensor: the flagellum of *Carausius morosus*** 5\_V\_1.02  
Volker Dürr (Bielefeld)

12:00-12:15 **Ants running at different inclinations: walking stability and leg length** 5\_V\_1.03  
Tobias Seidl, Tom Weihmann, Reinhard Blickhan, Rüdiger Wehner (Zürich, Switzerland; Jena)

12:15-12:30 **Pulling or pushing during escape in hunting spiders** 5\_V\_1.04  
Tom Weihmann, Reinhard Blickhan (Jena)

**Kurzvorträge**

Donnerstag, 6.10.2005, NW II, H 16

**Session 2**

Sitzungsleiter: S. Perry (Bonn)

13:30-13:45 **Towards terrestriality: reproduction in an East-African caecilian amphibian** 5\_V\_2.05  
Alexander Kupfer, Hendrik Müller, Mark Wilkinson (London, UK)

13:45-14:00 **Re-visiting an old idea: The subcoxal theory and its consequences for the Tracheata/Tetraconata - conflict** 5\_V\_2.06  
Holger Bäcker, Martin Fanenbruck, Wolfgang Wägele (Bochum; Bonn)

14:00-14:15 **Evolutionary transformations of fetal membrane characters in Eutheria with special reference to Afrotheria** 5\_V\_2.07  
Andrea Mess, Anthony Carter (Berlin; Odense, Denmark)

14:15-14:30 **Common features of the *Phasmatodean* antennae suggest adaptation to tactile orientation during terrestrial locomotion** 5\_V\_2.08  
Samir Mujagic, André F. Krause, Volker Dürr (Bielefeld)

14:30-14:45 **About the fine structure of lateral eyes in Chilopoda and their phylogenetic significance** 5\_V\_2.09  
Carsten H.G. Müller, Jörg Rosenberg, V. Benno Meyer-Rochow (Rostock; Essen; Bremen)

14:45-15:00 **The *Porcellio scaber* model for the analysis of calcium storage in terrestrial crustaceans** 5\_V\_2.10  
Andreas Ziegler, Helge Fabritius (Ulm)

## Posterpräsentation

Dienstag, 4.10.2005, Foyer NW II

17:30-18:30 gerade Posternummern  
18:30-19:30 ungerade Posternummern

**Ultrastructure of the reproductive system in *Lineus viridis* (Heteronemertea, Nemertea)** 5\_Po\_01  
Jörn von Döhren, Thomas Bartolomaeus (Berlin)

**Head morphology and development of *Prosarthria teretirostris* (Caelifera: Proscopiidae)** 5\_Po\_02  
Eileen Baum (Jena)

**Morphology of the pit organs of the boid snake *Corallus hortulanus*** 5\_Po\_03  
Jill Ebert, Anke Schmitz, Michael Hofmann, Guido Westhoff (Bonn)

**Bacterial symbionts of *Porcellio scaber*: mutualists and parasites?** 5\_Po\_04  
Sebastian Fraune, Martin Zimmer (Kiel)

**Revealing the spatial nature of the contractions of the marine sponge *Tethya wilhelma* (Porifera, Demospongiae)** 5\_Po\_05  
Andreas Fritz, Michael Nickel, Eric Bullinger (Stuttgart)

**Development of the lateral eyes and optic neuropils in *Limulus polyphemus* (Chelicerata, Xiphosura): phylogenetic implications** 5\_Po\_06  
Steffen Harzsch, Kathia Vilpoux, Roland Melzer, Barbara Battelle (Ulm; München; St. Augustine, USA)

**Cone-topography in the retina of the snake-eel *Ophisurus serpens*** 5\_Po\_07  
Martin Heß (Planegg-Martinsried)

**Distribution pattern of muscle fibre types in the paravertebral musculature of *Mus musculus* with respect to postnatal development** 5\_Po\_08  
Bettina Hesse, Nadja Schilling, Martin S. Fischer (Jena)

**Comparative morphology of compound eyes in terrestrial and aquatic leaf beetles (genus *Donacia* and *Macroplea*; Coleoptera: Chrysomelidae)** 5\_Po\_09  
Katharina Kramke, Gregor Kölsch (Hamburg)



- Anatomical incongruity of the glenohumeral joint in arboreal primates and other mammals** 5\_Po\_10  
Cornelia Krause (Jena)
- Molecular cloning and localization of three opsins in the retina of the compound eyes and adult stemmata of the malagasy hawkmoth, *Xanthopan morgani praedicta*** 5\_Po\_11  
Jochen Lampel, Adriana D. Briscoe, Lutz T. Wasserthal (Erlangen; Steinhaus Hall, USA)
- Mechanisms of eye development and evolution of the arthropod visual system: the lateral eyes of Myriapoda are not modified insect ommatidia** 5\_Po\_12  
Roland R. Melzer, Steffen Harzsch, Carsten H.G. Müller (München; Ulm; Rostock)
- Comparative distribution of keratins in the esophagus epithelium of different mammals** 5\_Po\_13  
Wilfried Meyer, Britta Schoennagel, Anke Schnapper (Hannover)
- Functional morphology of the paravertebral muscles of the domestic ferret (*Mustela putorius f. furo*)** 5\_Po\_14  
Sabine Moritz, Nadja Schilling, Martin S. Fischer (Jena)
- 4D-Analysis of early pelvic girdle morphogenesis in the mouse** 5\_Po\_15  
Christine Pomikal, Johannes Streicher (Wien, Austria)
- Is the mandible shape of ants correlated to trophic position?** 5\_Po\_16  
Verena Traxel, Juliane Steckel, Nico Blüthgen, Martin Brändle, Roland Brandl (Marburg; Bayreuth)
- Electron-microscopical localisation of gelsolin in crustacean muscles** 5\_Po\_17  
Andreas Unger, Horst Hinssen (Bielefeld)

**DZG Epithelial sodium channels in animals – evolution, structure and function**

**Plenarvortrag**

Dienstag, 4.10.2005, NW I, H 14

Sitzungsleiter: W.-M. Weber (Münster)

- |             |   |      |
|-------------|---|------|
| 10:30-11:15 | <b>The ENaC/Degenerin family of ion channels: structure and function</b><br>Cecilia Canessa, Tatjana Coric (New Haven, USA) | P.09 |
|-------------|---|------|

**Kurzvorträge**

Dienstag, 4.10.2005, NW II, H 18

**Session 1**

Sitzungsleiter: W.-M. Weber (Münster)

- |             |  |          |
|-------------|--|----------|
| 11:30-11:45 | <b>Influence of intracellular Na<sup>+</sup> or Li<sup>+</sup> concentration on the expression of the epithelial sodium channel (ENaC) in <i>Xenopus laevis</i> oocytes</b><br>Christina Börding, Gesche Hartmann, Christina Nagel, Wolf-Michael Weber, Kristina Kusche (Münster)  | 6_V_1.01 |
| 11:45-12:00 | <b>The rare earth metal Gadolinium (Gd<sup>3+</sup>) interferes with non-hormonal regulatory properties of epithelial Na<sup>+</sup> channels in <i>Xenopus</i> alveolar epithelium</b><br>Martin Fronius, Roman Bogdan, Mikael Schnizler, Wolfgang G. Clauss (Giessen; Iowa City, USA)                                    | 6_V_1.02 |
| 12:00-12:15 | <b>Trafficking of the K<sup>+</sup>-channels Kir4.1 and KCNQ1 from cytoplasmic tubulocisternae to the apical membrane after secretagogue-stimulation of gastric acid secretion</b><br>Marc-André Kaufhold, Michael Fährmann, Nikolaj Klöcker, Winfried Beil, Susan Hagen, Ursula Seidler (Hannover; Freiburg; Boston, USA) | 6_V_1.03 |
| 12:15-12:30 | <b>Functional regulation of murine ASIC1a by the cytoskeletal component <math>\alpha</math>-actinin</b><br>Mikael K. Schnizler, Johannes W. Hell, Michael J. Welsh (Iowa City, USA)  | 6_V_1.04 |

**Kurzvorträge**

Dienstag, 4.10.2005, NW II, H 18

**Session 2**

Sitzungsleiter: W.-M. Weber (Münster)

- |             |  |          |
|-------------|--|----------|
| 13:30-13:45 | <b>Molecular characterization of putative amoebapore-like polypeptides of <i>Dictyostelium discoideum</i></b><br>Rosa Herbst, Matthias Leippe (Bochum; Kiel) | 6_V_2.05 |
| 13:45-14:00 | <b>Nested allosteric interactions in extracellular hemoglobins</b><br>Nadja Hellmann, Hans Malte, Roy E. Weber, Heinz Decker (Mainz; Aarhus, Denmark)        | 6_V_2.06 |

14:00-14:15	<b>Spatio-temporal modelling and simulation of oxygen transport in the microcrustacean <i>Daphnia magna</i> using FEMLAB</b> Ralph Pirow, Sylvia Moenickes, Otto Richter (Münster; Braunschweig)	6_V_2.07
14:15-14:30	<b>Regulatory differences of ENaC from human nasal epithelium in CF and non-CF tissue</b> Nadine Bangel, Claudia Rudack, Wolf-Michael Weber, Kristina Kusche (Münster)	6_V_2.08
14:30-14:45	<b>Overexpression of cysteine proteinase 5 in the parasitic protozoan <i>Entamoeba histolytica</i> induces increased liver abscess formation in gerbils</b> Iris Bruchhaus, Manuela Tillack, Hannelore Lotter, Nicolas Nowak, Jörn Tolstrup, Egbert Tannich (Hamburg)	6_V_2.09
14:45-15:00	<b>Molecular evolution of molluscan hemocyanins: a progress report</b> Bernhard Lieb, Jürgen Markl (Mainz)	6_V_2.10

## Posterpräsentation

Dienstag, 4. Oktober 2005, Foyer NW II

17:30-18:30	<b>gerade Posternummern</b>	
18:30-19:30	<b>ungerade Posternummern</b>	
	<b>Sleep enhances IL-6 trans-signaling in humans</b> Christian Benedict, Stoyan Dimitrov, Tanja Lange, Manfred Hallschmid, Jan Born (Lübeck)	6_Po_01
	<b>Distribution in mammalian retinae links neuroglobin but not cytoglobin to cellular respiration</b> Thorsten Burmester, Marc Schmidt, Anke Bentmann, Stefan Reuss, Uwe Wolfrum, Thomas Hankeln (Mainz)	6_Po_02
	<b>Functional partitioning of CaMKII-dependent signal transduction in gastric parietal cells</b> Michael Fährmann, Marc-André Kaufhold (Hannover)	6_Po_03
	<b>Dopamine-induced intracellular and luminal pH changes in ducts of cockroach salivary glands: V-ATPase involvement</b> Carsten Hille, Bernd Walz (Potsdam-Golm)	6_Po_04
	<b>Organization of the microtubule system in <i>Drosophila</i> compound eyes</b> Piotr Kos, Otto Baumann (Potsdam-Golm)	6_Po_05
	<b>Na<sup>+</sup>/K<sup>+</sup>-ATPase and its implication for bilaterian evolution</b> Kristina Kusche, Nadine Bangel, Christian Müller, Jan-Peter Hildebrandt, Wolf-Michael Weber (Münster; Greifswald)	6_Po_06

- Molecular basis of the epithelial defense in the invertebrate model organism *Caenorhabditis elegans*** 6\_Po\_07  
 Thomas Roeder, Mareike Stanisak, Iris Bruchhaus, Matthias Leippe (Kiel; Hamburg)
- Biomphalaria glabrata* (gastropod) hemoglobin: unraveling an old enigma** 6\_Po\_08  
 Bernhard Lieb, Hio-Sun Kang, Konstantina Dimitrova, Wolfgang Gebauer, Coenraad M. Adema, Jürgen Markl (Mainz; Albuquerque, USA)
- A novel 3D-reconstruction of the quaternary structure of deoxygenated hemocyanin from the horseshoe crab *Limulus polyphemus* by cryo-TEM** 6\_Po\_09  
 Andreas G. Martin, Ulrich Meißner, Frank Depoix, Jürgen Markl (Mainz)
- 3D-Structure of invertebrate hemolymph proteins by cryoelectron microscopy** 6\_Po\_10  
 Ulrich Meißner (Mainz)
- cAMP-dependent regulation of V-ATPase activity in salivary glands of the blowfly *Calliphora vicina*** 6\_Po\_11  
 Julia Rein, Bettina Schewe, Otto Baumann, Bernd Walz (Potsdam-Golm)
- Characterization of globin X, a novel member of the vertebrate globin family** 6\_Po\_12  
 Anja Roesner, Angela Fago, Thomas Hankeln, Roy E. Weber, Thorsten Burmester (Mainz; Aarhus, Denmark)
- Characterization of serotonin-induced intracellular pH changes in *Calliphora* salivary glands** 6\_Po\_13  
 Bettina Schewe, Otto Baumann, Bernd Walz (Potsdam-Golm)
- CyclicAMP increases InsP3-induced Ca<sup>2+</sup>-release from the endoplasmic reticulum in salivary glands of the blowfly** 6\_Po\_14  
 Ruth Schmidt, Bernd Walz (Potsdam-Golm)
- Osmolarity of the external medium influences Na<sup>+</sup> transport across leech integument** 6\_Po\_15  
 Katja Sobczak, Anne Willing, Wolf-Michael Weber, Kristina Kusche (Münster)
- 3D-Cryoelectron microscopy of 4x6 hemocyanin (oxy and deoxy) of the tarantula *Eurypelma californicum*** 6\_Po\_16  
 Michael Stohr, Ulrich Meißner, Frank Depoix, Jürgen Markl (Mainz)
- Duplicated hemocyanin genes are more than just a freak of nature** 6\_Po\_17  
 Klaus Streit, Bernhard Lieb (Mainz)
- Na<sup>+</sup>-dependent expression of ENaC and other transport proteins** 6\_Po\_18  
 Wolf-Michael Weber, Willy Van Driessche, Kristina Kusche, Andrei Segal (Münster; Leuven, Belgium)
- Usher syndrome type I and II are molecularly linked via the scaffold protein harmonin (USH1C)** 6\_Po\_19  
 Jan Reiners, Erwin van Wijk, Tina Märker, Ulrike Zimmermann, Karin Jürgens, Jürgen Harf, Heleen te Brinke, Ronald Roepman, Marlies Knipper, Hannie Kremer, Uwe Wolfrum (Mainz; Tübingen)



**Posterpräsentation**

Dienstag, 4.10.2005, Foyer NW II

17:30-18:30  
18:30-19:30**gerade Posternummern**  
**ungerade Posternummern**

- The function of cAMP in the PDF signal transduction pathway in the circadian system of the cockroach *Leucophaea maderae*** 7\_Po\_01  
Nico Funk, Nils-Lasse Schneider, Monika Stengl (Marburg)
- The local control of tibial motoneuron activity during single leg stepping in the stick insect** 7\_Po\_02  
Geraldine von Uckermann, Jens Peter Gabriel, Ansgar Büschges (Köln)
- lav/Nan TRP channel adjusts the gain of NompC-dependent feedback amplification in the *Drosophila* ear** 7\_Po\_03  
Martin Göpfert, Joerg Albert, Bjoern Nadrowski, Azusa Kamikouchi (Köln)
- Metamorphosis of the honeybee antennal lobe: general development and A-type allatostatin immunoreactivity** 7\_Po\_04  
Maria Gräbner, Claudia Groh, Wolfgang Rössler, Joachim Schachtner (Marburg; Würzburg)
- Cellular effects of the reward transmitter octopamine in the honeybee, *Apis mellifera*** 7\_Po\_05  
Bernd Grünewald, Sandra Berger (Berlin)
- 3D reconstructions of identified glomeruli of the *Manduca sexta* antennal lobe to study the influence of NO/cGMP on neuropil development** 7\_Po\_06  
Wolf Huetteroth, Sandra Utz, Joachim Schachtner (Marburg)
- Ca<sup>2+</sup> signals in developing antennal lobe neurons of the sphinx moth *Manduca sexta*** 7\_Po\_07  
Frauke Kepura, Nils Schneider, Christian Lohr, Joachim Schachtner (Marburg; Kaiserslautern)
- The pectines of the scorpion *Pandinus cavimanus* – Mechanosensory properties** 7\_Po\_08  
Nikolay Kladt, Hans-Georg Heinzel (Bonn)
- Odor processing and pheromone communication in leaf-cutting ants** 7\_Po\_09  
Christoph J. Kleineidam, Linda S. Kuebler, Wolfgang Rössler (Würzburg)
- Proprioreceptive influence of sensory hair fields on antennal movements of *Carausius morosus*** 7\_Po\_10  
Andre Krause, Volker Dürr (Bielefeld)
- Responses of the prothoracic sensory organ of the Australian “little ash beetle” *Acanthocnemus nigricans* to thermal and other stimuli** 7\_Po\_11  
Eva Kreiß, Helmut Schmitz (Bonn)
- Detection of dipole stimuli by the goldfish, *Carassius auratus*: effect of running water and the role of the lateral line** 7\_Po\_12  
Ines Nauroth, Joachim Mogdans (Bonn)

- Effects of CB1-R activation in the goldfish retina: temporal transfer properties and photoreceptor intensity response function** 7\_Po\_13  
Carlos Mora-Ferrer, Christina Stumm, Morna Gruber, Konstantin Behrend (Mainz)
- Biophysics of *Drosophila* hearing** 7\_Po\_14  
Bjoern Nadrowski, Joerg Albert, Martin Göpfert (Köln)
- The retinal transcriptome of the fruitfly *Drosophila melanogaster*** 7\_Po\_15  
Thomas Roeder, Helge Marquardt, Guido Schramm (Kiel; Hamburg)
- Intersegmental information transfer: activation and coordination in the insect walking system** 7\_Po\_16  
Anke Borgmann, Joachim Schmidt, Hans Scharstein, Ansgar Büschges (Köln)
- Is PDF an input signal into the PER/TIM feedback loop of the circadian clock in the fruitfly *Drosophila melanogaster*?** 7\_Po\_17  
Achim Werckenthin, Monika Stengl (Marburg)
- Neuronal actions of adipokinetic hormones: effects on ion currents, spiking and locomotion in the American cockroach** 7\_Po\_18  
Dieter Wicher, Hans-Jürgen Agricola, Sandra Söhler, Matthias Gundel, Monika Stengl, Christian Derst (Jena; Marburg; Berlin)

## GEBIN German Brain Endocrine Immune Network

### Hauptvortrag

Dienstag, 4.10.2005, NW I, H 13

#### Peripheral Neuroimmune Interactions

Sitzungsleiter: M. Böhm (Münster)

11:30-12:00 **Immunomodulatory effects of vitamin D analogues** 8\_H\_0.01  
Jörg Reichrath (Homburg)

### Kurzvorträge

Dienstag, 4.10.2005, NW I, H 13

#### Session 1: Peripheral Neuroimmune Interactions

Sitzungsleiter: M. Böhm (Münster)

12:00-12:15 **5-HT<sub>3</sub> receptor antagonists inhibit the release of pro-inflammatory cytokines in human monocytes and T cells** 8\_V\_1.01  
Bernd L. Fiebich, Eduardo Candelario-Jalil, Ravi S. Akundi, Harald Gschaidmeier, Lothar Faerber, Wolfgang Mueller, Thomas Stratz, Eduardo Muñoz (Freiburg; Denzlingen; Nürnberg; Bad Säckingen; Córdoba, Spain)

12:15-12:30 **The sympathetic nervous system influences CD4+CD25+ splenocytes to aggravate collagen-induced arthritis in the adoptive cell transfer model in DBA/1 mice** 8\_V\_1.02  
Peter Härle, Ulrike Strauch, Martin Fleck, Ingo Tärner, Jürgen Schölmerich, Rainer H. Straub (Regensburg)

### Kurzvorträge

Dienstag, 4.10.2005, NW I, H 13

#### Session 2: Neuroendocrinology and Immune Function

Sitzungsleiter: R.H. Straub (Regensburg)

13:30-13:45 **Cannabinoids induce mu opioid receptors in Jurkat T cells via interleukin-4** 8\_V\_2.03  
Jürgen Kraus, Christine Börner, Sandra Kolbitz, Volker Höllt (Magdeburg)

13:45-14:00 **Increase of sympathetic outflow and decrease of the hypothalamic-pituitary-adrenal axis tone in patients with SLE and RA – Another example of uncoupling of response systems** 8\_V\_2.04  
Peter Härle, Rainer H. Straub, Reiner Wiest, Anita Meier, Jürgen Schölmerich, F. Atzeni, M. Carrabba, Maurizio Cutolo, Piercarlo Sarzi-Puttini (Regensburg; Milano, Italy; Genova, Italy)

14:00-14:15 **Estrogen metabolites and rheumatoid arthritis: effects on proliferation of activated human monocytes** 8\_V\_2.05  
Silvia Capellino, Paola Montagna, Barbara Villaggio, Alberto Sulli, Rainer H. Straub, Maurizio Cutolo (Genova, Italy; Regensburg)

14:15-14:30 **Progesterone derivative dydrogesterone down-regulates the Neurokinin 1 receptor on lymphocytes, induces a Th2 skew and exerts hypoalgesic effects in mice** 8\_V\_2.06  
Örsal Arif Suphi, Sandra M. Blois, Dominika Labuz, Eva M.J. Peters, Martin Schaefer, Petra C. Arck (Berlin)



### Kurzvorträge

Dienstag, 4.10.2005, NW I, H 13

#### Session 3: Neuroendocrinology and Immune Function

Sitzungsleiter: R.H. Straub (Regensburg)

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|-------------|--|----------|
| 15:15-15:30 | <p><b>Stress aggravates allergic dermatitis by central and peripheral mechanisms</b><br/>                 Maria Daniltchenko, Annick de Vries, Desmond J. Tobin, Petra Moschansky, Peter Kobelt, Petra C. Arck, Burghard F. Klapp, Eva M.J. Peters (Berlin; Edinburgh, UK; Bradford, UK)</p> | 8_V_3.07 |
| 15:30-15:45 | <p><b>Increased glucocorticoid sensitivity of lymphocyte proliferation in patients with atopic diseases</b><br/>                 Nicolas Rohleder, Jutta M. Wolf, Clemens Kirschbaum (Dresden)</p>   | 8_V_3.08 |
| 15:45-16:00 | <p><b>Age-dependent changes in NF-<math>\kappa</math>B binding activity in response to acute psychosocial stress</b><br/>                 Jutta M. Wolf, Nicolas Rohleder, Angelika Bierhaus, Dimitri Petrov, Peter P. Nawroth, Clemens Kirschbaum (Dresden, Heidelberg)</p>                 | 8_V_3.09 |
| 16:00-16:15 | <p><b>Detection of functional melanocortin receptors in human basophils – implications for an immunoregulatory role of alpha-MSH in allergic diseases</b><br/>                 Markus Böhm, Ilka Wolff, Thomas E. Scholzen, Thomas A. Luger (Münster)</p>                                    | 8_V_3.10 |

### Plenarvorträge

Mittwoch, 5.10.2005, NW I, H 15

#### Stress, Behaviour, and Immune Function

Sitzungsleiter: R.H. Straub (Regensburg), V. Stefanski (Bayreuth)

- |             |  |      |
|-------------|--|------|
| 08:30-09:15 | <p><b>Cytokines in the brain: From sickness behaviour to depression</b><br/>                 Robert Dantzer (Bordeaux, France; Urbana-Champaign, USA)</p>  | P.12 |
| 09:15-10:00 | <p><b>Surgery and stress as risk factors for tumor progression: mediating mechanisms of immuno-suppression and potential prophylactic measures</b><br/>                 Shamgar Ben-Eliyahu (Tel Aviv, Israel)</p> | P.13 |

### Hauptvortrag

Mittwoch, 5.10.2005, NW I, H 13

#### Neuroendocrinology and Immune Function

Sitzungsleiterin: A. del Rey (Marburg)

- |             |  |          |
|-------------|--|----------|
| 11:30-12:00 | <p><b>Glucocorticoids and prolactin mediated signaling and thymus development</b><br/>                 Rosa Sacedón, Paz Carreño, Eva Jiménez, Angeles Vicente, Agustín Zapata (Madrid, Spain)</p> | 8_H_0.02 |
|-------------|--|----------|

### Kurzvorträge

Mittwoch, 5.10.2005, NW I, H 13

#### Session 4: Stress, Behaviour, and Immune Function

Sitzungsleiterin: A. del Rey (Marburg)

- |             |   |          |
|-------------|---|----------|
| 12:00-12:15 | <p><b>Environmental enrichment reduces A<math>\beta</math> plaques in female TgCRND8 Alzheimer mice</b><br/>                 Oliver Ambrée, Nicole Görtz, Arne Herring, Werner Paulus, Kathy Keyvani, Norbert Sachser (Münster)</p> | 8_V_4.11 |
| 12:15-12:30 | <p><b>Decreased innate immune responsiveness to social stress at the end of pregnancy in laboratory rats</b><br/>                 Volker Stefanski, Simone Bauer, Susanne Grüner (Bayreuth)</p>                                     | 8_V_4.12 |

### Kurzvorträge

Mittwoch, 5.10.2005, NW I, H 13

#### Session 5: Stress, Behaviour, and Immune Function

Sitzungsleiter: M. Schedlowski (Zürich)

- |             |  |          |
|-------------|--|----------|
| 13:30-13:45 | <p><b>Three compared to one evocation trials improve behaviorally conditioned immunosuppression, but extinguish conditioned taste aversion</b><br/>                 Maj-Britt Niemi, Gustavo Pacheco-López, Wei Kou, Margarete Härting, Adriana del Rey, Hugo O. Besedovsky, Manfred Schedlowski (Zürich, Switzerland; Essen; Marburg)</p> | 8_V_5.13 |
| 13:45-14:00 | <p><b>Behavioral immuno-conditioning in mice: Immunosuppression vs. aversive behavior</b><br/>                 Gustavo Pacheco-Lopez, Maj-Britt Niemi, Wei Kou, Margarete Härting, Adriana del Rey, Hugo O. Besedovsky, Manfred Schedlowski (Zürich, Switzerland; Essen; Marburg)</p>  | 8_V_5.14 |
| 14:00-14:15 | <p><b>Exposure to stress during pregnancy renders murine offsprings more susceptible towards atopic diseases</b><br/>                 Maike Knackstedt, Ricarda Joachim, Judith Kandil, Eckard Hamelmann, Ulrich Wahn, Petra C. Arck (Berlin)</p>  | 8_V_5.15 |
| 14:15-14:30 | <p><b>Chronic psycho-social stress in mice decreases the severity of acute DSS-induced colitis but impairs regeneration</b><br/>                 Stefan Reber, Florian Obermeier, Rainer H. Straub, Werner Falk, Inga Neumann (Regensburg)</p>   | 8_V_5.16 |
| 14:30-14:45 | <p><b>Social stress promotes the recruitment of glucocorticoid-insensitive leukocytes to the spleen</b><br/>                 Harald Engler, Andrea Engler, Michael T. Bailey, John F. Sheridan (Columbus, USA; Zürich, Switzerland)</p>  | 8_V_5.17 |
| 14:45-15:00 | <p><b>Psychosocial stress during pregnancy alters immune function and the number of immune cells in male Long-Evans rat offspring during stressful life-events</b><br/>                 Alexander Götz, Sabrina Wittlinger, Volker Stefanski (Bayreuth)</p>  | 8_V_5.18 |
| 15:00-15:15 | <p><b>Colony housing attenuates the tumor-enhancing effect of acute social stress in Fischer F344 rats</b><br/>                 Lutz Dawils, Volker Stefanski (Bayreuth)</p>   | 8_V_5.19 |

### Kurzvorträge

Mittwoch, 5.10.2005, NW I, H 13

#### Session 6: Stress, Behaviour, and Immune Function

Sitzungsleiter: H. Engler (Zürich)

- |             |   |          |
|-------------|---|----------|
| 16:00-16:15 | <b>Effects of stress on the ICAM-1/LFA-1 cross talk during pregnancy</b><br>Sandra M. Blois, Mareike C. Tometten, Arif S. Örsal, Judith Kandil, Burghard F. Klapp, Petra C. Arck (Berlin) | 8_V_6.20 |
| 16:15-16:30 | <b>MHC diversity and the association to nematode parasitism in the yellow necked mouse (<i>Apodemus flavicollis</i>)</b><br>Yvonne Meyer-Lucht, Simone Sommer (Hamburg)                   | 8_V_6.21 |
| 16:30-16:45 | <b>Hypoxic stress and immune response in isopods: conflicting functions of hemocyanine?</b><br>Pinar Irmak, Martin Zimmer (Kiel)  | 8_V_6.22 |
| 16:45-17:00 | <b>A connection between immune response and metabolic state</b><br>Kerstin Isermann, Christina Wagner, Juliane Klärig, Thomas Roeder (Kiel)   | 8_V_6.23 |
| 17:00-17:15 | <b>The insect metalloproteinase inhibitor (IMPI) as a template for the rational design of novel second generation antibiotics</b><br>Andreas Vilcinskas, Marianne Wedde (Giessen)         | 8_V_6.24 |
| 17:15-17:30 | <b>Immune response of the <i>Drosophila</i> respiratory epithelium</b><br>Christina Wagner, Thomas Roeder (Kiel)  | 8_V_6.25 |

### Plenarvortrag

Donnerstag, 6.10.2005, NWI, H 13

#### Neuroimmunology of the CNS

Sitzungsleiter: R. Gold (Göttingen)

- |             |   |      |
|-------------|---|------|
| 10:30-11:15 | <b>Liposomal targeting of glucocorticoids as novel treatment strategy for inflammatory disorders</b><br>Josbert M. Metselaar, Marca H.M. Wauben, Jens Schmidt, Otto C. Boerman, Peter L. Van Lent, Ralf Gold, Gert Storm (Utrecht, The Netherlands; Göttingen; Nijmegen, The Netherlands) | P.14 |
|-------------|---|------|

### Kurzvorträge

Donnerstag, 6.10.2005, NW I, H 13

#### Session 7: Neuroimmune-Endocrine Network in Psychiatric Disorders & Neuroimmunology of the CNS

Sitzungsleiter: M. Schwarz (München)

- |             |  |          |
|-------------|--|----------|
| 11:30-11:45 | <b>Sleep dependant regulation of the number and function of dendritic cell precursors in peripheral blood</b><br>Stoyan Dimitrov, Tanja Lange, Horst-Lorenz Fehm, Jan Born (Lübeck)                  | 8_V_7.26 |
| 11:45-12:00 | <b>The kynurenine pathway in depressive disorders</b><br>Markus J. Schwarz, Jürgen Stastny, Anastasios Konstantinidis, Alexander Neumeister, Norbert Müller (München; Wien, Austria; New Haven, USA) | 8_V_7.27 |

12:00-12:15 **Therapeutic implications of immune mechanisms in psychiatric disorders** 8\_V\_7.28  
 Norbert Müller, Michael Riedel, Sandra Dehning, Ilja Spellmann, Anette Mueller-Arends, Anja Cerovecki, Barbara Goldstein-Mueller, Hans-Jürgen Moeller, Markus Schwarz (München)

12:15-12:30 **Association between rheumatoid arthritis and schizophrenia - immunogenetic analysis** 8\_V\_7.29  
 Larissa de la Fontaine, Markus J. Schwarz, H. Plischke, P. Zill, Michael Riedel, Norbert Müller, R. Gruber (München)

### Hauptvortrag

Donnerstag, 6.10.2005, NW I, H 13

### Neuroimmune-Endocrine Network in Psychiatric Disorders & Neuroimmunology of the CNS

Sitzungsleiter: N. Müller (München)

13:30-14:00 **Depression, inflammation and neurodegeneration: are we missing the link?** 8\_H\_0.03  
 Brian E. Leonard (Maastrich, The Netherlands)

### Kurzvorträge

Donnerstag, 6.10.2005, NW I, H 13

### Session 8: Neuroimmune-Endocrine Network in Psychiatric Disorders & Neuroimmunology of the CNS

Sitzungsleiter: N. Müller (München)

14:00-14:15 **The cyclo-oxygenase-2 inhibitor Celecoxib has therapeutic effects in major depression: Results of a double-blind, randomized, placebo controlled, add-on study to reboxetine** 8\_V\_8.30  
 Michael Riedel, Markus J. Schwarz, Sandra Dehning, Anette Müller-Arends, Anja Cerovecki, Barbara Goldstein-Müller, Ilja Spellmann, Günter Hetzel, Katja Maino, Hans-Jürgen Möller, Volker Arolt, Norbert Müller (München; Münster)

14:15-14:30 **MIF as possible marker of HPS-axis dysregulation in depressed patients: Results of a placebo-controlled, randomized trial of Celecoxib as add-on therapy in patients with major depression treated with reboxetine** 8\_V\_8.31  
 Richard Musil, Markus J. Schwarz, Michael Riedel, Sandra Dehning, Anette Douhet, Anja Cerovecki, Ilja Spellmann, Norbert Müller (München)

14:30-14:45 **Therapy resistant depression – Lyme disease, Borna disease virus infection or streptococcal associated autoimmune disorder?** 8\_V\_8.32  
 Karl Bechter, M. Horn, A. Bindl, V. Schreiner (Ulm)

## Posterpräsentation

Dienstag, 4.10.2005, Foyer NW II

17:30-18:30  
18:30-19:30

**gerade Posternummern**  
**ungerade Posternummern**

**Expression of neuronal markers in rat olfactory epithelium, septal organ of Masera and vomeronasal organ of Jacobson** 8\_Po\_01  
Elke Weiler, Alia Benali (Bochum)

**Anti-TNF-treatment normalizes catecholamine-induced increase of proinflammatory cytokine secretion (TNF, IFN-gamma) in RA patients** 8\_Po\_02  
Matthias Wahle, Anne Mehlberg, Andreas Krause, Holm Häntzschel, Rainer H. Straub, Christoph G. O. Baerwald (Leipzig; Berlin; Regensburg)

**Androgen conversion in OA and RA synoviocytes – androstenedione and testosterone inhibit estrogen formation and favor production of more potent 5 $\alpha$ -reduced androgens** 8\_Po\_03  
Martin Schmidt, Claudia Weidler, Heidrun Naumann, Sven Anders, Jürgen Schölmerich, Rainer H. Straub (Jena; Regensburg; Bad Abbach)

**Sleep and rhythms of monocyte derived type 1 and type 2 cytokines** 8\_Po\_04  
Tanja Lange, Stoyan Dimitrov, Horst-Lorenz Fehm, Jan Born (Lübeck)

**Ascorbic acid enhances the inhibitory effect of aspirin on neuronal cyclooxygenase-2-mediated prostaglandin E<sub>2</sub> production** 8\_Po\_05  
Eduardo Candelario-Jalil, Ravi S. Akundi, Klaus Lieb, Kurt Appel, Eduardo Muñoz, Michael Hüll, Bernd Fiebich (Freiburg; Denzlingen; Córdoba, Spain)

**Tumor-Necrose-Factor (TNF-Alpha) and Toll-like Receptor-2 (TLR-2) in activated monocytes from patients suffering from Tourette Syndrome (TS)** 8\_Po\_06  
Sandra Dehning, Rudolf Gruber, Andreas Bender, Norbert Müller (München)

**Nuclear STAT3 translocation in guinea pig and rat brain endothelium during systemic challenge with lipopolysaccharide and interleukin-6** 8\_Po\_07  
Christoph Rummel, Thilo Voss, Kiyoshi Matsumura, Stefan Korte, Rüdiger Gerstberger, Joachim Roth, Thomas Hübschle (Giessen; Kyoto, Japan)

**Increased therapeutic efficacy of different liposomal glucocorticosteroid formulations for relapse treatment in a model of multiple sclerosis** 8\_Po\_08  
Ralf A. Linker, Alexander Mohr, Jens Schmidt, Michael Knauth, Josbert M. Metselaar, Ralf Gold (Göttingen; Utrecht, The Netherlands)

**Tumor-Necrose-Factor (TNF-Alpha) and TOLL-like Receptor-2 (TLR-2) in activated monocytes in patients suffering from schizophrenia** 8\_Po\_09  
Markus Opgen-Rhein, Sandra Dehning, Andreas Bender, Rudolf Gruber, Norbert Müller (München)

- Characterization of pyrogenic properties of double stranded RNA in guinea pigs** 8\_Po\_10  
Thilo Voss, Christoph Rummel, Rüdiger Gerstberger, Thomas Hübschle, Joachim Roth (Giessen)
- Immune parameters in patients with depression versus healthy controls during an open-label, placebo-controlled, randomized trial of reboxetine and celecoxib** 8\_Po\_11  
Richard Musil, Markus Schwarz, Michael Riedel, Sandra Dehning, Anette Douhet, Ilja Spellmann, Norbert Müller (München)
- Circulating levels of macrophage Migration Inhibitory Factor (MIF) in Alzheimer's disease** 8\_Po\_12  
Elke Richartz, Anil Batra, Klaus Schott (Tübingen)
- Serum Th2-shifts in schizophrenia – Results after excluding the effects of diverse hormones** 8\_Po\_13  
Ilja Spellmann, Sue Whei Chiang Sonnig, Michael Riedel, Sandra Dehning, Anette Douhet, Manfred Ackenheil, Rudolf Gruber, Norbert Müller, Markus Schwarz (München)
- Effects of acute and chronic stress in male *Tupaia belangeri*** 8\_Po\_14  
Eva Godehardt, Dietrich von Holst (Bayreuth)
- Oral academic examinations- modulate saliva cortisol titre in adolescent students** 8\_Po\_15  
Barbara Harl, Hubert H. Kerschbaum (Salzburg, Austria)
- Activation of immune function of hemocyanine in isopods** 8\_Po\_16  
Sandra May, Martin Zimmer (Kiel)
- Age related changes on the immune system and behaviour in tree shrews** 8\_Po\_17  
Christian Münkel, Heike Scherer, Dietrich von Holst (Bayreuth)
- Effects of housing conditions on physiology and behaviour of tree shrews in pairing tests** 8\_Po\_18  
Doreen Schulze, Frank Uhl, Dietrich von Holst (Bayreuth)
- Social reorganization in laboratory rat colonies** 8\_Po\_19  
Melanie Uebelhoer, Volker Stefanski (Bayreuth)
- Pairbond and health in tree shrews** 8\_Po\_20  
Frank Uhl, Angelika Roith, Dietrich von Holst (Bayreuth)
- Stressors enhance  $\text{NH}_4^+$  release via modulation of NOS activity in tadpoles of the South African frog, *Xenopus laevis*** 8\_Po\_21  
Stefan Wildling, Hubert H. Kerschbaum (Salzburg, Austria)
- Characterisation of the interaction between *Caenorhabditis elegans* and entomopathogenic bacteria** 8\_Po\_22  
Sebastian Hering, Mathieu Sicard, Hinrich Schulenburg (Münster; Tübingen)
- The behavioural avoidance of pathogens in the nematode *Caenorhabditis elegans*** 8\_Po\_23  
Simone Riß, Barbara Hasert, Martin Hasshoff, Daniela Tonn, Hinrich Schulenburg (Münster; Tübingen)

- Functional and structural characterization of CCF-like molecules in lumbricids** 8\_Po\_24  
 Marcela Silerova, Petra Prochazkova, Alain Beschin, Guy Josens, Radka Joskova, Martin Bilej (Prag, Czech Republic; Brüssel, Belgium)
- Expression of androgen receptors in rat olfactory epithelium and vomeronasal organ** 8\_Po\_25  
 Elke Weiler (Bochum; Evanston, USA)
- Melanopsin in the retina of passerine birds: Restricted expression to retinal ganglion cells** 8\_Po\_26  
 Sven Sagasser, Dominik Heyers, Andrea Möller, Henrik Mouritsen (Oldenburg; Frankfurt/M)
- Predatory tactics of the Kenyan sand boa (*Gongylophis colubrinus loveridgei*), with regard to the role of visual cues** 8\_Po\_27  
 Maike Braemer, Horst Bleckmann, Guido Westhoff (Bonn)
- Infrared reception in *Python regius*** 8\_Po\_28  
 Sarah Müller, Jill Ebert, Guido Westhoff (Bonn)
- Stage-dependent BDNF serum concentrations in Alzheimer`s disease** 8\_Po\_29  
 Christoph Laske, Elke Stransky, Thomas Leyhe, Gerhard W. Eschweiler, Andreas Wittorf, Elke Richartz-Salzbürger, Mathias Bartels, Klaus Schott (Tübingen)
- Th2-shift in schizophrenia: findings from whole blood in vitro stimulation** 8\_Po\_30  
 Son nig Sue Whei Chiang, Norbert Müller, Michael Riedel, Manfred Ackenheil, Rudolf Gruber, Markus J. Schwarz (München)

## Notizen



## Notizen

# Lageplan der Universität (Ausschnitt)

