

# Humboldt-Universität zu Berlin

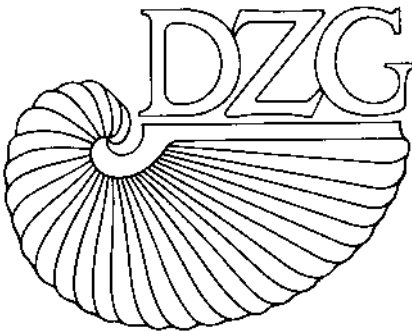


## 96. Jahresversammlung der Deutschen Zoologischen Gesellschaft

als gemeinsame Tagung mit der

## Deutschen Gesellschaft für Parasitologie

vom 9. bis 13. Juni 2003 in Berlin



# Programmheft

BESTE BERLINER BRAUTRADITION



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# Allgemeine Hinweise

für die Arbeit mit dem vorliegenden Programmheft

Die Titel der Hauptvorträge, Kurzvorträge und Poster sind nach Hauptthemen (HT) und Studiengruppen (SG) angeordnet. Sie finden die jeweiligen Bezeichnungen auch in den Kopfzeilen dieses Bandes. Innerhalb der Themenbereiche (HT oder SG) sind die Beiträge nach Hauptvorträgen, Kurzvorträgen und Postern geordnet. Zusätzlich ist jeder Vortrag und jedes Poster innerhalb eines Themengebietes mit einer fortlaufenden Nummer versehen.

Die Tagung wurde großzügig von den folgenden Firmen unterstützt:

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## Tagungsort

Die Tagung findet in mehreren Gebäuden auf dem Nord-Campus der Humboldt-Universität statt (siehe Lageplan auf der Rückseite).

## Tagungsbüro und Anmeldung

Das Tagungsbüro befindet sich im Gebäude der ehemaligen Veterinäranatomie (Schumannstr. 12/13a, Gebäude 2, siehe Lageplan auf der Rückseite). Der Zugang erfolgt am günstigsten über das Dreispitzeck (siehe Lageplan auf der Rückseite, roter Pfeil rechts unten) oder über die Hessische Straße und die Philippstrasse.

Die Öffnungszeiten des Tagungsbüros sind:

Pfingstmontag:                      von 16<sup>00</sup> bis 18<sup>30</sup>h

Dienstag bis Donnerstag        von 8<sup>00</sup> bis 18<sup>00</sup>h

Während der Tagung kann das Tagungsbüro telefonisch, per fax und per e-mail erreicht werden:

Telefon: ++49 30 2093 6598

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## Anreise und Wegebeschreibung

Vom S-Bahnhof Friedrichstrasse benötigen Sie ca. 10 Minuten zu Fuß: Folgen Sie der Friedrichstrasse nach Norden über die Weidendammer Brücke. Nach ca. 300 Metern gelangen Sie an eine Strassenkreuzung, in die von links die Reinhardtstrasse einmündet. Überqueren Sie die Strasse und gehen Sie ca. 10 Meter auf der Reinhardtstrasse nach links. Rechts befindet sich an einem Blumenladen eine Tordurchfahrt (siehe Hinweisschilder), durch die Sie gehen und nach ca. 150 Metern über eine Baustelle zu einem Zaun mit Tor gelangen. Von dort gelangen Sie auf das Campus-Gelände und folgen der Beschilderung.

Alternativ: Steigen Sie auf dem Bahnhof Friedrichstrasse in die U6 (Richtung "Alt-Tegel") um. Fahren Sie eine Station bis zum U-Bahnhof "Oranienburger Tor"; verlassen Sie den Bahnhof in Fahrtrichtung hinten. Wenn Sie aus dem U-Bahnhof kommen und sich nach rechts wenden, sehen Sie die kurze Claire-Waldoff-Strasse. Folgen Sie der "Claire-Waldoff-Strasse" ca. 200 Meter geradeaus.

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Sie sehen links das Campusgelände und gelangen ebenfalls über die Baustelle durch den südlichen Eingang aufs Gelände.

Alternativ: Sie fahren mit der U-Bahn (U6) bis zum Bahnhof "Zinnowitzer Strasse" (2 Stationen nördlich von Friedrichstr.). Gehen dort die Invalidenstrasse in Richtung Westen (Richtung Charité); folgen Sie dann der Hessischen Strasse, die nach 300m links abbiegt, bis zur Philippstrasse. Bitte gehen Sie die Philippstrasse ca. 50 m entlang, bis sich links eine Einfahrt (mit Schranke & Pfortner) öffnet, der Nordeingang zum Campus-Gelände. Dort folgen Sie der Beschilderung.

Achtung: Es besteht für Besucher keine Parkmöglichkeit auf dem Gelände.

## Verkehrsmittel

In Berlin fahren Sie am günstigsten und am schnellsten mit den öffentlichen Verkehrsmitteln. Ein Einzelfahrschein kostet 2.10 € und gilt 2 Stunden. Sie können damit U-Bahn, S-Bahn, Straßenbahn und Busse benutzen. Ein Tagesticket kostet 6.10 €, rechnet sich also ab drei Einzelfahrten.

Es gibt auch ein 3-Tagesticket, welches 19 € kostet; dieses erhält man aber nicht an den überall in den Bahnhöfen aufgestellten Fahrkartenautomaten sondern nur an den Vorverkaufsstellen (z.B. im S-Bahnhof Friedrichstrasse). Vergessen Sie bitte nicht, die Tickets auch abzustempeln, es wird gerade im Bereich Friedrichstrasse häufig kontrolliert!

## Verpflegung

In den Kaffeepausen werden Sie von uns mit Kaffee, Tee und Mineralwasser versorgt. Für die Mittagspause nutzen Sie bitte das große Angebot an nahe gelegenen Restaurants (z.B. Richtung Dreispitzpassage, Oranienburger Strasse,

## Hinweise für Referenten

In allen Räumen sind Rechner mit Beamern installiert, außerdem stehen Overhead- und Diaprojektoren zu Ihrer Verfügung. Bitte geben Sie ihre Vorträge (mit einem aussagefähigen Namen versehen) möglichst auf einer CD-Rom ab und stellen Sie unbedingt bereits spätestens in der Pause vor Ihrem Vortrag sicher, dass Ihr Beitrag problemlos abgespielt werden kann.

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## Poster

Aus Platzgründen können leider nicht alle Poster während der ganzen Tagung gezeigt werden, die Poster zu den **Hauptthemen 3 und 4** sowie der **Studiengruppen 2, 4 und 5** können von Montag bis Mittwoch um 10<sup>00</sup> Uhr, die Poster zum **Hauptthema 1** sowie der **Studiengruppen 1, 3, 6, 7, und 8** vom Mittwoch 10<sup>00</sup> Uhr bis Donnerstag Nachmittag präsentiert werden. Die Posterpräsentatoren sind bereits per e-mail persönlich über den Zeitpunkt ihrer Präsentation unterrichtet worden.

Der Wechsel der Poster sollte am Mittwoch Vormittag stattfinden. Bitte hängen Sie die Poster der ersten Gruppe am Mittwoch spätestens bis 10<sup>00</sup> Uhr ab. Es finden zwei jeweils 2-stündige Poster-Sitzungen statt. Bitte seien Sie zu den Sitzungen an Ihren Postern. Die Sitzung für die erste Gruppe von Postern findet am Dienstag nachmittags von 16<sup>30</sup>-18<sup>30</sup> Uhr, die für die zweite Gruppe am Donnerstag vormittags von 10<sup>30</sup> bis 12<sup>30</sup> Uhr statt. Die Poster dürfen nicht mit Nadeln befestigt werden, sondern mit Tesastrips!

## Namensschilder

Die Teilnehmer werden gebeten, ihre Namensschilder gut sichtbar zu tragen. Dies gilt insbesondere für die Teilnehmer am Gesellschaftsabend am Mittwoch im Sauriersaal des Naturkunde-Museums. Die Organisatoren der Tagung und Helfer tragen farbige Schilder.

## Veranstaltungen und Veranstaltungsorte

Bitte entnehmen Sie den folgenden Seiten die jeweiligen Veranstaltungen und die Veranstaltungsorte der einzelnen Sessions:

Montag, 09.06.2003	Hörsaal Scholtz H1	Audimax der Humboldt- Universität zu Berlin
ab 16:00	Registrierung der Teilnehmer im Tagungsbüro	
19:00		Eröffnung der Tagung
19.15		Hauptvortrag Sitzungsleiterin: B. König Evolution and speciation of Darwin's finches Rosemary Grant, Princeton, USA
ab 20:00		Treffen im UNI-Club



Dienstag, 10.06.2003	Hörsaal Anatomie A	Hörsaal Scholtz H1	Hörsaal Abderhalden- haus H2	Mikrobiologie H4	Kurssaal Scholtz Haus 2	Institut für molekulare Parasitologie Haus 14	Trichinentempel H8
08:30 - 09:15	Hauptvortrag Sitzungsleiter: R. Lucius Intracellular parasitism – cell biological adaptations of parasitic protozoa to a life inside cells Klaus Lingelbach, Marburg, Germany						
09:15 - 10:00	Hauptvortrag Sitzungsleiter: Taraschewski Sex, parasites and resistance – an evolutionary approach Joachim Kurtz, Plön, Germany						
10:00 - 10:30	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause
10:30 - 11:15		Hauptvortrag Sitzungsleiter: N. Sachser The evolution of morality and religion Donald M. Broom, Cambridge, UK	Hauptvortrag Sitzungsleiter: K. Reinhold Approaching speciation in Hawaiian crickets using comparative behavioral analysis Kerry Shaw, Maryland, USA				

11:15 - 12:30		Kurzvorträge HT2 - Genese biologischer Vielfalt Sitzungsleiter: J. Steidle	Kurzvorträge SG2 - Evolutionbiologie Sitzungsleiter: G. Uhl	Kurzvorträge SG8 - Zoologische Systematik Sitzungsleiter: M. Ohl	Kurzvorträge SG4 - Neurobiologie und HT6 - Theoretische Neurobiologie Sitzungsleiter: H. Wagner	Kurzvorträge HT3 - Parasitologie Sitzungsleiter: B. Sures	
12:30 - 14:00	Mittagspause	Mittagspause	Mittagspause	Mittagspause	Mittagspause	Mittagspause	Mittagspause
14:00 - 14:45		Hauptvortrag Sitzungsleiter: R. Menzel Is slowness a learning principle of visual cortex? Laurenz Wiskott, Berlin, Germany	Hauptvortrag Sitzungsleiter: P. Hammerstein Bdeloids and beyond: diversification in sexuals and asexuals Timothy G. Barraclough and Elisabeth Herniou, Silwood Park, UK				
14:45 - 16:00		Kurzvorträge SG4 - Neurobiologie und HT6 - Theoretische Neurobiologie Sitzungsleiter: L. Wiskott	Kurzvorträge SG2 - Evolutionbiologie Sitzungsleiter: E. Strom	Kurzvorträge HT2 - Genese biologischer Vielfalt Sitzungsleiter: S. Scheu	Kurzvorträge SG5 - Ökologie Sitzungsleiter: T.Hoffmeister	Kurzvorträge HT3 - Parasitologie Sitzungsleiter: K.Lingelbach	DFG-Tips für Antragsteller Herr Bode
16:00 - 16:30	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause
16:30 - 18:30	Postersession	Postersession	Postersession	Postersession	Postersession	Postersession	Postersession
18:30 - 20:00		Ehrung: F. Huber				Rundgespräch Parasitologie und Zoologie	

Mittwoch, 11.06.2003	Hörsaal Anatomie A	Hörsaal Scholtz H1	Hörsaal Abderhalden- haus H2	Mikrobiologie H4	Kurssaal Scholtz Haus 2	Institut für molekulare Parasitologie Haus 14
08:30 - 09:15	Hauptvortrag Sitzungsleiter: A. Herz Balancing Homeostasis and Learning in Neural Circuits L.F. Abbott, Brandeis, USA					
09:15 - 10:00	Hauptvortrag Sitzungsleiter: G. Scholtz Fossils, molecules and development in the study of metazoan evolution; Articulata versus Ecdysozoa revisited Gonzalo Giribet, Cambridge MA, USA					
10:00 - 10:30	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause
10:30 - 11:15	Hauptvortrag Sitzungsleiter: S. Richter Old trees, new trees – is there any progress? A. Schmidt-Rhaesa, Bielefeld, Germany		Hauptvortrag Sitzungsleiter: J. Hildebrandt Parasitic worms: strategies to find, recognize and invade their hosts Wilfried Haas, Erlangen, Germany			
11:15 - 12:30	Kurzvorträge HT5 - Phylogenie und Evolution der Metazoa Sitzungsleiter: G. Purschke		Kurzvorträge HT3 - Parasitologie Sitzungsleiter: B. Kalinna		Kurzvorträge SG5 - Ökologie Sitzungsleiter: K. Böhning-Gaese	Kurzvorträge HT4 - Phänotypische Plastizität Sitzungsleiter: S. Perry
12:30 - 13:00	Mittagspause	Mittagspause	Mittagspause	Mittagspause	Mittagspause	Mittagspause
	Kurzvorträge SG2 - Evolutionsbiologie Sitzungsleiter: G. Kerth					

13:00 - 13:45		Versammlung SG2 - Evolutionsbiologie	Versammlung SG6 - Physiologie	Versammlung SG3 - Morphologie	Versammlung SG1 - Entwicklungsbiologie	
13:50 - 14:35		Versammlung SG5 - Ökologie	Versammlung SG7 - Verhaltensbiologie	Versammlung SG8 - Zoologische Systematik	Versammlung SG4 - Neurobiologie	
14:45 - 16:00		Kurzvorträge HT5 - Phylogenie und Evolution der Metazoa Sitzungsleiter: C. Lüter	Kurzvorträge SG7 - Verhaltensbiologie und HT1 - Animal Welfare Sitzungsleiter: S. Kaiser	Kurzvorträge SG8 - Zoologische Systematik Sitzungsleiter: C. Held	Kurzvorträge SG2 - Evolutionsbiologie Sitzungsleiter: K. Witte	Kurzvorträge HT3 - Parasitologie Sitzungsleiter: T. Pogonka
16:00 - 16:30	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause
16:30 - 18:30		Mitgliederversammlung der DZG				
18:30 - 20:00		Preisverleihung Horst Wiehe - Preis und Walter Arndt - Preis				
20:00 - ??		Beisammensein im Sauriersaal				

Donnerstag, 12.06.2003	Hörsaal Anatomie A	Hörsaal Scholtz H1	Hörsaal Abderhaldenhaus H2	Mikrobiologie H4	Kurssaal Scholtz Haus 2	Institut für molekulare Parasitologie Haus 14
08:30 - 09:15	Hauptvortrag Sitzungsleiter: D. Tautz The power of 'evo-devo' to explore evolutionary constraints: studies on butterfly eyespots Paul Brakefield, Leiden, The Netherlands					
09:15 - 10:00	Hauptvortrag Sitzungsleiter: Hassel/ Paululat Apoptotic pathways in the nematode <i>C. elegans</i> Michael Hengartner, Zürich, Switzerland					
10:00 - 10:30	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause
10:30 - 12:30	Postersession	Postersession	Postersession	Postersession	Postersession	Postersession
12:30 - 14:00	Mittagspause	Mittagspause	Namaqualand: In the Land of Mice Movie of 45 minutes by Carsten Schradin, Johannesburg, RSA	Mittagspause	Mittagspause	Mittagspause
14:00 - 16:00		Kurzvorträge SG1 - Entwicklungsbiologie Sitzungsleiter: T. Leitz	Kurzvorträge SG6 - Physiologie Sitzungsleiter: W.M.Weber	Kurzvorträge SG3 - Morphologie und HT4 - Phänotypische Plastizität Sitzungsleiter: A. Schmitz	Kurzvorträge HT1 - Animal Welfare und SG7 - Verhaltensbiologie Sitzungsleiter: G.Dehnhardt	Kurzvorträge HT3 - Parasitologie Sitzungsleiter: I.Bruchhaus
16:00 - 16:30	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause	Kaffeepause

16:30 - 18:30

Hauptvortrag  
Sitzungsleiter: D.v. Holst  
Using Behaviour to  
Assess Animal Welfare  
Marian Stamp Dawkins,  
Oxford, UK

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Freitag, 13.06.2003	Exkursionen nach Ankündigung
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RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT

An der Abteilung **Neuroethologie/Sensorische Ökologie** am **Zoologischen Institut** der **Universität Bonn** ist eine **Post-Doc Position** zu besetzen:

## Wissenschaftliche/n Assistentin/en (C1)

BewerberInnen sollten sich für die neuronalen Mechanismen von Verhalten und der Verarbeitung sensorischer Informationen bei Tieren interessieren, und in ihren Forschungen unterschiedliche Ebenen neuraler Organisation berücksichtigen. Es wird erwartet, dass ein unabhängiges, vor allem durch Drittmittel finanziertes, Forschungsprojekt auf dem Gebiet der



**Neuroethologie schwach-elektrischer Fische** aufgebaut wird. Hierbei sollten vor allem elektrophysiologische und neuroanatomische

Methoden angewandt werden. Eine Beteiligung an der Lehre der Abteilung wird vorausgesetzt.

Die Stelle wird für zunächst 3 Jahre, mit der Möglichkeit der Verlängerung um weitere 3 Jahre, besetzt. Anfangsdatum ist zu **Beginn des Jahres 2004**. Zum Stellenantritt sollte eine Promotion in Neurobiologie oder verwandten Gebieten abgeschlossen sein. Die Möglichkeit zur Habilitation ist gegeben.

Weitere Informationen über die Abteilung Neuroethologie finden Sie unter: <http://www.zoologie.uni-bonn.de/NeuroEthologie/ho.htm>.

Bitte senden Sie ihre Bewerbungen (inklusive eines CV und einem kurzen Abriss der Forschungs- und Lehrinteressen) an folgende Adresse: **Prof. Dr. Gerhard von der Emde**, Universität Bonn, Institut für Zoologie, Abt. Neuroethologie/Sensorische Ökologie, Endenicher Allee 11-13, D-53115 Bonn/Germany, Tel.: +49 (0)228 735555, FAX: +49 (0)228 735556, Email: [vonderemde@uni-bonn.de](mailto:vonderemde@uni-bonn.de)



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# HT1 Animal Welfare

## Hauptvorträge

Donnerstag, 12.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: *D. v. Holst*

- 16<sup>30</sup>-18<sup>30</sup> Using Behaviour to Assess Animal Welfare HV  
Marian Stamp Dawkins, (Oxford, UK)

Dienstag, 10.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: *N. Sachser*

- 10<sup>30</sup>-11<sup>15</sup> The evolution of morality and religion. HV  
Donald M. Broom, (Cambridge, UK)

## Kurzvorträge

Session 1 - Donnerstag, 12.06.2003 - Kurssaal Scholtz, Haus 2

Sitzungsleiter: *G. Dehnhardt*

- 14<sup>00</sup>-14<sup>15</sup> Non-invasive monitoring of stress hormones in mice: a technique opening  
new perspectives in biomedical and animal welfare research S1.1  
<sup>1</sup>Chadi Touma, <sup>2</sup>Rupert Palme, <sup>1</sup>Norbert Sachser, (<sup>1</sup>Muenster, <sup>2</sup>Vienna)
- 14<sup>15</sup>-14<sup>30</sup> Environmental Enrichment for Mice: Luxury or Necessity? S1.2  
Lars Lewejohann, Norbert Sachser, (Muenster)
- 14<sup>30</sup>-14<sup>45</sup> Applied chronoethology - a tool to evaluate well-being of animals in  
captivity S1.3  
Fleissner G., (Frankfurt/Main)

## Poster

Posterpräsentation - Donnerstag, 12.06.2003 - 10<sup>30</sup>-12<sup>30</sup>

- P-1 In vitro and in vivo activity of flavonoids against *Trypanosoma b. brucei*  
Kayser, O., Rafhöfer-Templin, S., Clausen, P.-H., Tietjen, U., (Berlin)
- P-2 Studies on social support in a newly described monogamous wild guinea pig  
Schröer A., Kaiser S. and Sachser N., (Muenster)
- P-3 'Friendship' in farm animals: Do domestic equids have different 'friends' for  
different activities?  
Anja Wasilewski, (Marburg)
- P-4 Variations in Adelie penguin heart rate and behaviour  
Kathrin Schuster, (Marburg)
- P-5 The Time Pattern of Behavior as an Indicator of Welfare in Zoo Animals  
<sup>1</sup>Velte F., <sup>1</sup>Benesch A., <sup>1</sup>Blaum N., <sup>1</sup>Graf B., <sup>1</sup>Kandler C., <sup>1</sup>Richter C., <sup>1</sup>Rütten S., <sup>1</sup>Schmücker  
M., <sup>1</sup>Schubert C., <sup>1</sup>Sebisch S., <sup>1</sup>Fleissner Ge., <sup>2</sup>Becker M., <sup>3</sup>Wicker R., <sup>1</sup>Fleissner Gü.,  
(<sup>1</sup>Frankfurt/Main, <sup>2</sup>61476 Kronberg/Taunus, <sup>3</sup>Frankfurt/Main)



## HT2 Genese biologischer Vielfalt

### Hauptvorträge

Montag, 09.06.2003 - Audimax der Humboldt-Universität zu Berlin

Sitzungsleiter: *B. König*

- 19<sup>15</sup>-20<sup>00</sup> Evolution and speciation of Darwin's finches HV  
Rosemary Grant, (Princeton, USA)

Dienstag, 10.06.2003 - Hörsaal Aberhaldenhaus, H2

Sitzungsleiter: *P. Hammerstein*

- 14<sup>00</sup>-14<sup>45</sup> Bdelloids and beyond: diversification in sexuals and asexuals HV  
Timothy G. Barraclough and Elisabeth Herniou, (Silwood Park, UK)

Dienstag, 10.06.2003 - Hörsaal Aberhaldenhaus, H2

Sitzungsleiter: *K. Reinhold*

- 10<sup>30</sup>-11<sup>15</sup> Approaching speciation in Hawaiian crickets using comparative behavioral genetics HV  
Kerry Shaw, (Maryland, USA)

### Kurzvorträge

Session 1 - Dienstag, 10.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: *J. Steidle*

- 11<sup>15</sup>-11<sup>30</sup> Population subdivision and speciation in perch (*Perca fluviatilis* L.): the importance of being related S1.1  
<sup>1</sup>Jasminca Behrmann-Godel, <sup>2</sup>Gabriele Gerlach & <sup>3</sup>Reiner Eckmann, (<sup>1</sup>Konstanz, <sup>2</sup>Woods Hole, USA, <sup>3</sup>Konstanz)
- 11<sup>30</sup>-11<sup>45</sup> Diversification of north-west European land snails: Tests of the vicariance model. S1.2  
<sup>1</sup>Hausdorf B. and <sup>2</sup>Hennig C., (<sup>1</sup>Hamburg, <sup>2</sup>Zürich)
- 11<sup>45</sup>-12<sup>00</sup> Radiation of aeolid Nudibranchia (Gastropoda, Opisthobranchia), especially the genus *Phyllodesmium*, as a function of symbiotic relationship with zooxanthellae S1.3  
<sup>1</sup>Burghardt I., <sup>1</sup>Wägele H., (Bochum)
- 12<sup>00</sup>-12<sup>15</sup> Searching for genes involved in environmental adaptations in mouse populations S1.4  
<sup>1</sup>Ihle S. and <sup>1</sup>Tautz D., (<sup>1</sup>Koeln)
- 12<sup>15</sup>-12<sup>30</sup> Molecular phylogeny and evolution in lacustrine species flocks: the radiation of viviparous freshwater gastropods (Cerithioidea: Pachychilidae) in the ancient lakes of Sulawesi, Indonesia S1.5  
Thomas von Rintelen and Matthias Glaubrecht, (Berlin)

Session 2 - Dienstag, 10.06.2003 - Hörsaal Mikrobiologie, H4

Sitzungsleiter: S. Scheu

- 14<sup>45</sup>-15<sup>00</sup> Radiation in the termite genus *Macrotermes*: the importance of recognition cues S2.1  
<sup>1</sup>Kaib M., <sup>2</sup>Franke S., <sup>2</sup>Francke W. <sup>3</sup>Brandl R., (<sup>1</sup>Bayreuth, <sup>2</sup>Hamburg, <sup>3</sup>Marburg)
- 15<sup>00</sup>-15<sup>15</sup> Origin and radiation of freshwater gastropods in ancient lakes of East Africa and Sulawesi: an evolutionary ecology approach S2.2  
Matthias Glaubrecht, (Berlin)
- 15<sup>15</sup>-15<sup>30</sup> Mechanisms of speciation in the plant-ants *Crematogaster* spp. subgenus *Decacrema* S2.3  
Feldhaar, H. , Fiala, B. and Gadau, J., (Würzburg)
- 15<sup>30</sup>-15<sup>45</sup> Eels and their parasitic worms: how are the parasite communities shaped? S2.4  
<sup>1</sup>Taraschewski H., <sup>2</sup>Moravec F., <sup>3</sup>Boomker J. and <sup>4</sup>Thairungroj M., (<sup>1</sup>Karlsruhe, <sup>2</sup>Ceske Budejovice, Czech Republic, <sup>3</sup>Pretoria, Rep. South Africa, <sup>4</sup>Bangkok, Thailand)
- 15<sup>45</sup>-16<sup>00</sup> Genetic structure in native animal populations of different agro-ecosystems revealed by RAPD markers and multilocus DNA fingerprinting. S2.5  
<sup>1</sup>Kautenburger R., (Trier)

## HT3 Parasitologie

### Hauptvorträge

- Dienstag, 10.06.2003 - Hörsaal Anatomie, A  
Sitzungsleiter: R. Lucius
- 08<sup>30</sup>-09<sup>15</sup> Intracellular parasitism – cell biological adaptations of parasitic protozoa to a life inside cells HV  
Klaus Lingelbach, (Marburg)
- Dienstag, 10.06.2003 - Hörsaal Anatomie, A  
Sitzungsleiter: H. Taraschewski
- 09<sup>15</sup>-10<sup>00</sup> Sex, parasites and resistance – an evolutionary approach HV  
Kurtz, Joachim, (Plön)
- Mittwoch, 11.06.2003 - Hörsaal Abderhaldenhaus, H2  
Sitzungsleiter: J.-P. Hildebrandt
- 10<sup>30</sup>-11<sup>15</sup> Parasitic worms: strategies to find, recognize and invade their hosts HV  
Haas W., (Erlangen)

### Kurzvorträge

- Session 1 - Dienstag, 10.06.2003 - Inst. für mol. Parasitologie, Haus 14  
Sitzungsleiter: B. Sures
- 11<sup>15</sup>-11<sup>30</sup> Effects of the inauguration of the Main-Danube-Canal on the biodiversity in the river Rhine, with special emphasis on eel parasites. S1.1  
F. Thielen\*, H. Taraschewski, B. Sures, (Karlsruhe)
- 11<sup>30</sup>-11<sup>45</sup> Investigations to the influence of *Anguillicola crassus* on the swim bladder of European eels (*Anguilla anguilla*) S1.2  
Marcel Münderle, Bernd Sures and Horst Taraschewski, (Karlsruhe)
- 11<sup>45</sup>-12<sup>00</sup> Comparative study on the susceptibility of *Anguilla anguilla* and *Anguilla japonica* to infection with the swimbladder nematode *Anguillicola crassus* S1.3  
Klaus Knopf<sup>1</sup>, Matthias Mahnke<sup>1</sup>, Bernd Sures<sup>2</sup>, (<sup>1</sup>Berlin, <sup>2</sup>Karlsruhe)
- 12<sup>00</sup>-12<sup>15</sup> Long-time monitoring of parasite communities in gobiid fishes of the SW Baltic Sea S1.4  
C. Dieter Zander, (Hamburg)
- 12<sup>15</sup>-12<sup>30</sup> Is it possible to express biodiversity in the frame of a species concept? S1.5  
Werner Kunz, (Duesseldorf)
- Session 2 - Dienstag, 10.06.2003 - Inst. für mol. Parasitologie, Haus 14  
Sitzungsleiter: K. Lingelbach
- 14<sup>45</sup>-15<sup>00</sup> Locally adapted parasite resistance in sticklebacks S2.1  
Kalbe M., Kurtz J., (Plön)
- 15<sup>00</sup>-15<sup>15</sup> Coevolution of endoparasites of the genus *Sarcocystis* and their lizard hosts in the island ecosystem of the "Macaronesian Archipelago" S2.2  
Bannert B. and Lucius R., (Berlin)

- 15<sup>15</sup>-15<sup>30</sup> Better to be male: parasite infestation as a cost of group living in female Bechstein's bats (*Myotis bechsteinii*). S2.3  
Reckardt K., Kerth G., (Zurich, Switzerland)
- 15<sup>30</sup>-15<sup>45</sup> Differentiation of the mosquito sibling species *Anopheles claviger* s.s. and *Anopheles petragrani* (Diptera: Culicidae) by a diagnostic PCR assay S2.4  
Helge Kampen<sup>1</sup>, Anja Sternberg<sup>1</sup>, Jana Proft<sup>1</sup>, Sandra Bastian<sup>1</sup>, Francis Schaffner<sup>2</sup>, Walter A. Maier<sup>1</sup>, Hanns M. Seitz<sup>1</sup>, (<sup>1</sup>Bonn, <sup>2</sup>Montpellier, France)
- 15<sup>45</sup>-16<sup>00</sup> Influence of chemical pollution (Cd, PCB 126) on the physiological homeostasis of the European eel (*Anguilla anguilla*) infected with the neozoic eel parasite *Anguillicola crassus* S2.5  
<sup>1</sup>Sures, B., <sup>2</sup>Knopf, K., <sup>2</sup>Kloas, W., <sup>3</sup>Segner, H. & <sup>4</sup>Gutzeit H., (<sup>1</sup>Karlsruhe, <sup>2</sup>Berlin, <sup>3</sup>Bern, Schweiz, <sup>4</sup>Dresden)
- Session 3 - Mittwoch, 11.06.2003 - Hörsaal Abderhaldenhaus, H2  
Sitzungsleiter: B. Kalinna
- 11<sup>15</sup>-11<sup>30</sup> A PCR system for identification of *Echinococcus* species and genotypes, with reference to the epidemiological situation in eastern Africa S3.1  
A. Dinkel<sup>1\*</sup>, E.M. Njoroge<sup>1</sup>, A. Zimmermann<sup>1</sup>, M. Wälz<sup>1</sup>, E. Zeyhle<sup>2</sup>, I.E. Elmahdi<sup>3</sup>, U. M Aackenstedt<sup>1</sup> and T. Romig<sup>4</sup>, (<sup>1</sup>Stuttgart, <sup>2</sup>Nairobi, Kenya, <sup>3</sup>Gezira, Sudan, <sup>4</sup>Ulm)
- 11<sup>30</sup>-11<sup>45</sup> Sequencing of COWP and 18S rRNA genes of *Cryptosporidium parvum* from wildlife rodents in Poland S3.2  
Anna Bajer<sup>1</sup>, Simone Caccio<sup>2</sup>, Ma , gorzata Bednarska<sup>1</sup>, Jerzy M. Behnke<sup>3</sup>, Norman J. Pieniazek<sup>4</sup> and Edward Sinski<sup>1\*</sup>, (<sup>1</sup>Warsaw, Poland, <sup>2</sup>Roma, Italy, <sup>3</sup>Nottingham, UK, <sup>4</sup>Atlanta, USA)
- 11<sup>45</sup>-12<sup>00</sup> Problems in taxonomy of *Stephanoprora* spp. (Digenea: Echinostomatidae) from birds in South America S3.3  
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- 12<sup>00</sup>-12<sup>15</sup> Identification of bacteria and symbionts in the intestinal tract of *Triatoma klugi*, *T. brasiliensis* and *Panstrongylus megistus* S3.4  
Hoffmann T., Hütt S., Rogl A., Schaub G.A., (Bochum)
- 12<sup>15</sup>-12<sup>30</sup> Molecular characterisation of cysteine proteinases in the digestive tract of the reduviid bug *Triatoma infestans*. S3.5  
<sup>1</sup>Waniek P.J., <sup>1</sup>Kollien A.H., <sup>2</sup>Nisbet A.J., <sup>3</sup>Billingsley P.F., <sup>1</sup>Schaub G.A., (<sup>1</sup>Bochum, <sup>2</sup>Melbourne, Australia, <sup>3</sup>Aberdeen, UK)
- Session 4 - Mittwoch, 11.06.2003 - Inst. für mol. Parasitologie, Haus 14  
Sitzungsleiter: T. Pogonka
- 14<sup>45</sup>-15<sup>00</sup> Ancient weapons: structurally and functionally similar membrane-permeabilizing effector proteins of pathogenic amoebae, invertebrates and mammals S4.1  
Heike Bruhn, Rosa Herbst, Thomas Roeder and Matthias Leippe, (Wuerzburg)
- 15<sup>00</sup>-15<sup>15</sup> Parasite specific immunomodulatory functions of filarial cystatin. S4.2  
Hartmann S., Schierack P., Sonnenburg B. and Lucius R., (Berlin)
- 15<sup>15</sup>-15<sup>30</sup> Blockage of matrixmetalloproteinases ameliorates small intestinal Th1-type immunopathology following peroral infection of mice with *Toxoplasma gondii* S4.3  
Markus M. Heimesaat<sup>1</sup>, Ildikò R. Dunay<sup>1</sup>, Dietmar Trautmann<sup>1</sup>, David Fuchs<sup>1</sup>, Sylvia Pender<sup>2</sup>, Thomas T. MacDonald<sup>2</sup>, Oliver Liesenfeld<sup>1</sup>, (<sup>1</sup>Berlin, <sup>2</sup>Southampton, UK)

- 15<sup>30</sup>-15<sup>45</sup> Isolation and characterization of a lysozyme-encoding gene expressed in the gut of the reduviid bug *Triatoma infestans* S4.4  
Kollien A.H., Fechner S., Waniek P.J., Schaub G.A., (Bochum)
- 15<sup>45</sup>-16<sup>00</sup> Anticoagulatory and bacteriolytic components of Triatominae (Reduviidae, Heteroptera) S4.5  
Meiser C., Dimitrijevic B., Schaub G.A., (Bochum)
- Session 5 - Donnerstag, 12.06.2003 - Inst. für mol. Parasitologie, Haus 14  
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- 14<sup>00</sup>-14<sup>15</sup> The cysteine proteinases of the intestinal protozoan parasite *Entamoeba histolytica* S5.1  
Iris Bruchhaus<sup>1</sup>, Brendan J. Loftus<sup>2</sup>, Neil Hall<sup>3</sup>, Egbert Tannich<sup>1</sup>, (<sup>1</sup>Hamburg, <sup>2</sup>Rockville, USA, <sup>3</sup>Cambridge, UK)
- 14<sup>15</sup>-14<sup>30</sup> Resistance of *Entamoeba histolytica* to the cysteine proteinase inhibitor E-64 S5.2  
Nicolas Nowak, Iris Bruchhaus, (Hamburg)
- 14<sup>30</sup>-14<sup>45</sup> *Leishmania donovani*: Identification and characterisation of proteins involved in stage differentiation S5.3  
S. Harder<sup>(1)</sup>, M. Bente<sup>(1)</sup>, E. Krause<sup>(2)</sup>, I. Bruchhaus<sup>(1)</sup>, (<sup>(1)</sup>Hamburg, <sup>(2)</sup>Berlin)
- 14<sup>45</sup>-15<sup>00</sup> Infection-induced CIC-2 anion channels mediate regulatory volume decrease in *Plasmodium*-infected erythrocytes S5.4  
SM Huber<sup>1</sup>, G Henke<sup>1</sup>, C Duranton<sup>1</sup>, CD Sandu<sup>1</sup>, E Shumilina<sup>1,2</sup>, V Tanneur<sup>1</sup>, V Brand<sup>1</sup>, C van de Sand<sup>3</sup>, V Heussler<sup>3</sup>, F Lang<sup>1</sup>, (<sup>1</sup>Tübingen, <sup>2</sup>St. Petersburg, Russia, <sup>3</sup>Hamburg)
- 15<sup>00</sup>-15<sup>15</sup> *Boudicca*, a retrovirus-like, LTR retrotransposon from the genome of the human blood fluke, *Schistosoma mansoni* S5.5  
<sup>1</sup>Copeland C.S., <sup>2</sup>Brindley P.J., <sup>2</sup>Michael S.F., <sup>3</sup>Johnston D.A., <sup>4</sup>Williams D.J., <sup>5</sup>Ivens A.C., <sup>1</sup>Heyers O., & <sup>1</sup>Kalina B.H., (<sup>1</sup>Berlin, <sup>2</sup>New Orleans, USA, <sup>3</sup>London, UK, <sup>4</sup>Illinois, USA, <sup>5</sup>Hinxton, UK)
- 15<sup>15</sup>-15<sup>30</sup> Identification of secretory molecules of the coccidia parasite *Eimeria tenella* by parallel use of bioinformatic and experimental approaches S5.6  
<sup>1</sup>Klotz, C., <sup>2</sup>Marhöfer, R.J., <sup>2</sup>Selzer, P.M., <sup>1</sup>Lucius, R., <sup>1</sup>Pogonka, T., (<sup>1</sup>Berlin, <sup>2</sup>Schwabenheim)
- 15<sup>30</sup>-15<sup>45</sup> New approaches for the detection of resistance genes in a murine model of human filarial infections S5.7  
Imke L. Pfaff, Stefan Schumacher, Anna Schmidt-Oehm, Birgit Meyer<sup>1</sup>, Hartwig Schulz-Key, Wolfgang H. Hoffmann, <sup>1</sup>Berlin
- 15<sup>45</sup>-16<sup>00</sup> Immunogenic optimality in sticklebacks S5.8  
<sup>1</sup>K. Mathias Wegner, <sup>2</sup>Martin Kalbe, <sup>2</sup>Joachim Kurtz, <sup>2</sup>Thorsten B. H. Reusch und <sup>2</sup>Manfred Milinski, <sup>1</sup>Plön, <sup>2</sup>Plön

## Poster

Posterpräsentation - Dienstag, 10.06.2003 - 16<sup>30</sup>-18<sup>30</sup>

- P-1 TGF- $\beta$  and IgA, independently from IL-6, regulate *Heligmosomoides polygyrus* worms rejection from the intestine.  
Justyna Rzepecka, Maria Doligalska, Magdalena Gerwel, Anna Michalska, Marta Banach., (Warsaw, Poland)
- P-2 Orientation mechanisms of trematodes within host tissues: Diversity of strategies  
Grabe K., Wulff C., Meyer V. & Haas W., (Erlangen)



- P-3 Mechano- and chemoperception trigger polar filament discharge of the *Myxobolus cerebralis* (Myxozoa) triactinomyxonspore  
Kallert D. M.<sup>1</sup>, El-Matbouli M.<sup>2</sup> and Haas W.<sup>1</sup>, (<sup>1</sup>Erlangen, <sup>2</sup>Munich)
- P-4 *Borrelia burgdorferi* infection rates in questing *Ixodes ricinus* ticks in the Siebengebirge near Bonn, Germany, as ascertained a good decade after a first survey  
H. Kampen<sup>1</sup>, D.C. Rötzel<sup>1</sup>, K. Kurtenbach<sup>2</sup>, W.A. Maier<sup>1</sup> and H.M. Seitz<sup>1</sup>, (<sup>1</sup>Bonn, <sup>2</sup>London, UK)
- P-5 Beitrag zurückgezogen - Poster withdrawn
- P-6 Endoparasitic fauna of birds of prey  
Oliver Krone, (Berlin)
- P-7 Helminths diversity in populations of *Clethrionomys glareolus* and its role in maintaining the zoonotic reservoir of *Cryptosporidium* sp.  
Karolina KULIS, Anna BAJER, Magorzata BEDNARSKA and Edward SINSKI, (Warsaw, Poland)
- P-8 Methods for the detection of larval trematodes in field samples.  
<sup>1</sup>Hertel J., <sup>1</sup>Kedves K., <sup>2</sup>Hamburger J., <sup>1</sup>Haberl B., <sup>1</sup>Hassan A. and <sup>1</sup>Haas W., (<sup>1</sup>Erlangen, <sup>2</sup>Jerusalem, Israel)
- P-9 A rapidly maturing red fluorescent protein variant with strongly enhanced brightness in pro- and eukaryotic pathogens such as *Leishmania* spp.  
<sup>1</sup>Lippuner C., <sup>1</sup>Sørensen M., <sup>2</sup>Kaiser T., <sup>1</sup>Ana Mißlitz, <sup>1</sup>Bumann D. and <sup>1</sup>Aebischer T., (Berlin)
- P-10 Fluorescing coloration and conspicuous behavior: A case of parasitism in *Asellus aquaticus* (Isopoda: Asellota)?  
Lorenzen, A., Zimmer, M., (Kiel)
- P-11 Prevalence of *Borrelia burgdorferi* sensu lato and *Ehrlichia* spec. in *Ixodes ricinus* Ticks collected in Northeastern Germany  
Müller C., Gottschalk M., Vierk R. and Hildebrandt, J.-P., (Greifswald)
- P-12 TGF- $\beta$  and IgA, independently from IL-6, regulate *Heligmosomoides polygyrus* worms rejection from the intestine.  
Justyna Rzepecka, Maria Doligalska, Magdalena Gerwel, Anna Michalska, Marta Banach, (Warsaw, Poland)
- P-13 Importance of parasitism as a mortality factor in the common cockle *Cerastoderma edule* in the northern Wadden Sea  
David W. Thielges (List)
- P-14 The acanthocephalan acanthor – a larva well equipped with hooks and spines  
F. Reitze & H. Taraschewski (Karlsruhe)
- P-15 Development of a transgenesis system for schistosomes – first steps of introducing transgenic stages into the life cycle  
O. Heyers<sup>1</sup>, P.Brindley<sup>2</sup>, R. Lucius<sup>1</sup>, T. Dorbic<sup>3</sup>, B. Wittig<sup>3</sup> and B.H. Kalinna<sup>1</sup> (<sup>1</sup>Berlin, <sup>2</sup>New Orleans, USA, <sup>3</sup>Berlin)
- P-16 Development of *Trypanosoma cruzi* in *Triatoma brasiliensis*: effects of blood ingestion by the starved vector  
<sup>1,2</sup>Araujo C.A.C., <sup>2</sup>Kollien A.H., <sup>1</sup>Jansen A.M., <sup>2</sup>Schaub G.A. (<sup>1</sup>Rio de Janeiro, Brazil, <sup>2</sup>Bochum)
- P-17 Characterisation of antigens from the scab mite *Sarcoptes scabiei*  
<sup>1</sup> von Witzendorff C., <sup>1</sup>Lucius R., <sup>2</sup>Matthes H.-F., <sup>1</sup>Reich B., and <sup>1</sup>Kalinna B. (<sup>1</sup>Berlin, <sup>2</sup>Luckenwalde)

- P-18 NK cells are dispensable for resistance to *Trypanosoma cruzi*  
<sup>1</sup>Beuter C., <sup>4</sup>Krimpenfort P., <sup>1</sup>Stauffer U., <sup>1</sup>Joswig N., <sup>3</sup>Schaub G.A., <sup>1</sup>Mossmann H., <sup>2</sup>Hölscher C. (<sup>1</sup>Freiburg, <sup>2</sup>Borstel, <sup>3</sup>Bochum, <sup>4</sup>Amsterdam, Netherlands)
- P-19 Toltrazuril treatment of mice do not interfere with the development of parasite specific cellular immune response to the intestinal protozoan *Eimeria falciformis*  
<sup>1</sup>Steinfelder, S., <sup>2</sup>Greif, G., <sup>1</sup>Lucius, R., <sup>1</sup>Pogonka, T. (<sup>1</sup>Berlin; <sup>2</sup>Leverkusen)
- P-20 Induction of protective immunity against the rodent filaria *Acanthocheilonema viteae* using tropomyosin as an experimental vaccine  
Sereda M.J., Lucius R., Stirati R., Sollwedel A. and Hartmann S., (Berlin)





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## HT4 Phänotypische Plastizität

### Hauptvorträge

Donnerstag, 12.06.2003 - Hörsaal Anatomie, A

Sitzungsleiter: *D. Tautz*

- 08<sup>30</sup>-09<sup>15</sup> The power of 'evo-devo' to explore evolutionary constraints: studies on butterfly eyespots HV  
 Paul Brakefield (Leiden, The Netherlands)

### Kurzvorträge

Session 1- Mittwoch, 11.06.2003 - Kurssaal Scholtz, Haus 2

Sitzungsleiter: *S. Perry*

- 11<sup>15</sup>-11<sup>30</sup> Endocrine and cellular mechanisms in lepidopteran colour pattern formation and phenotypic plasticity S1.1  
 P. B. Koch (Ulm)
- 11<sup>30</sup>-11<sup>45</sup> Local adaptation by maternal effects on offspring development in the grasshopper *Chorthippus biguttulus* S1.2  
 Mayer F. and Kűfner S. (Erlangen)
- 11<sup>45</sup>-12<sup>00</sup> Modification of the genetic pre-determined adult phenotype via epigenetic adaptation: an overview S1.3  
 Barbara Tzschentke (Berlin)
- 12<sup>00</sup>-12<sup>15</sup> Adaptive divergence versus environmental plasticity: local genetic adaptation of metamorphosis behaviour in salamanders S1.4  
<sup>1</sup>Weitere M., <sup>2</sup>Neumann D., <sup>3</sup>Tautz D. and <sup>4</sup>Steinfartz S. (<sup>1/2</sup>Cologne, <sup>3/4</sup>Cologne)
- 12<sup>15</sup>-12<sup>30</sup> Condition dependent development, altruistic behavior and discrimination in the drywood termite, *Cryptotermes secundus* S1.5  
 Korb J. (Regensburg)



## HT5 Phylogenie und Evolution der Metazoa

### Hauptvorträge

Mittwoch, 11.06.2003 - Hörsaal Anatomie, A

Sitzungsleiter: G. Scholtz

- 09<sup>15</sup>-10<sup>00</sup> Fossils, molecules and development in the study of metazoan evolution; Articulata versus Ecdysozoa revisited HV  
Gonzalo Giribet, (Cambridge, USA)

Mittwoch, 11.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: S. Richter

- 10<sup>30</sup>-11<sup>15</sup> Old trees, new trees – is there any progress? HV  
Schmidt-Rhaesa A. (Bielefeld)

### Kurzvorträge

Session 1- Mittwoch, 11.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: G. Purschke

- 11<sup>15</sup>-11<sup>30</sup> Localisation of serotonin, histamine and FMRFamide-like immunoreactivity in the developing nervous system of the horseshoe crab *Limulus polyphemus* L. (Xiphosura): implications for the evolution of the arthropod brain S1.1  
Steffen Harzsch, (Ulm)
- 11<sup>30</sup>-11<sup>45</sup> Mandibles and Arthropod Phylogeny S1.2  
Richter S.<sup>1</sup>, Edgecombe G.D.<sup>2</sup> and Wilson G.D.F.<sup>2</sup>, (<sup>1</sup>Berlin, <sup>2</sup>Sydney, Australia)
- 11<sup>45</sup>-12<sup>00</sup> Phylogenetic relationships among arthropods - the molecular and developmental view S1.3  
Diethard Tautz, Wim Damen, Niko Prpic, Angelika Stollewerk, (Köln)
- 12<sup>00</sup>-12<sup>15</sup> Mandibulatan Phylogeny Based on Cephalic Skeleto-Muscular Characters S1.4  
M. Fanenbruck, J.-W. Wägele, (Bochum)
- 12<sup>15</sup>-12<sup>30</sup> An ultrastructural re-investigation of the compound eye of *Scutigera coleoptrata* (Linnaeus, 1758) (Chilopoda: Notostigmophora) that gives support to the “Mandibulata-concept” S1.5  
<sup>1</sup>Müller, Carsten H.G., <sup>2</sup>Rosenberg, Joerg; <sup>3</sup>Richter, Stefan; <sup>4</sup>V. Benno Meyer-Rochow, (<sup>1</sup>Rostock, <sup>2</sup>Bochum, <sup>3</sup>Berlin, <sup>4</sup>Bremen)
- Session 2 - Mittwoch, 11.06.2003 - Hörsaal Scholtz, H1
- Sitzungsleiter: C. Lüter
- 14<sup>45</sup>-15<sup>00</sup> Perception and Explanation *Morphological and Molecular Methods in Phylogenetic Systematics – two Worlds, one Topic* S2.1  
Lars Vogt, (Berlin)
- 15<sup>00</sup>-15<sup>15</sup> Evolution of the serotonergic nervous system in Chordata S2.2  
Thomas Stach, (Fort Pierce, USA)
- 15<sup>15</sup>-15<sup>30</sup> Molluscan evolution traced by hemocyanin sequences S2.3  
Lieb B. and Markl J, (Mainz)
- 15<sup>30</sup>-15<sup>45</sup> Early evolution of echinoderms – How echinoderms attained their pentaradial symmetry. S2.4  
Michael Gudo, (Frankfurt am Main)

15<sup>45</sup>-16<sup>00</sup> Mitochondrial gene order in Mollusca: Why is it so diverse? S2.5  
Steiner G. and Dreyer, H., (Vienna, Austria)

## Poster

Posterpräsentation - Dienstag, 10.06.2003 - 16<sup>30</sup>-18<sup>30</sup>

- P-1 Phylogenetic inference of Parergodrilidae and *Hrabeiella periglandulata* ("Polychaeta", Annelida) based on 28S rDNA-sequences  
Janina Jördens, Günter Purschke & Torsten Struck, (Osnabrück)
- P-2 The complete hemocyanin cDNA of an opisthobranch gastropod (*Aplysia californica*)  
Boisguérin V., Lieb B., Gebauer W., Markl J., (Mainz)
- P-3 Evolutionary interactions: Did bacterial symbionts contribute to the colonization of land by isopods?  
Wang, Y.<sup>§</sup>; Stingl, U.<sup>#</sup>; Brune, A.<sup>#</sup>; Zimmer, M. <sup>§</sup>, (<sup>§</sup>Kiel, <sup>#</sup>Konstanz)
- P-4 The early development of the euphausiid shrimp *Meganycitiphanes norvegica* (Malacostraca, Crustacea)  
<sup>1</sup>Alwes F. and <sup>2</sup>Scholtz G., (<sup>1</sup>Berlin, <sup>2</sup>Berlin)
- P-5 Genomic fosmid-libraries as a tool to analyse the structural organization of *Hox* genes in *Eleutheria dichotoma* and *Trichoplax adhaerens*  
<sup>1</sup>Kamm, K., <sup>2</sup>Dellaporta, S. & <sup>1</sup>Schierwater, B., (<sup>1</sup>Hannover, <sup>2</sup>New Haven, USA)
- P-6 Origin and Early Radiation of Metazoa – New Insights from the Gallertoid Hypothesis.  
Dr. Michael Gudo<sup>1</sup>, Dipl. biol. Tareq Syed<sup>2</sup>, (<sup>1,2</sup>Frankfurt am Main)
- P-7 Phylogenetic Relationships of Small and Enigmatic Polychaetes based on 18S-rDNA sequences  
Torsten H. Struck; Günter Purschke, (Osnabrück)
- P-8 Rapidly and Adaptively Evolving Receptor-ligand Systems as a General Feature of the Metazoan Sperm-egg Interaction  
<sup>1</sup>Herlyn H., <sup>2</sup>Zischler Z., (<sup>1</sup>Göttingen, <sup>2</sup>Mainz)
- P-9 Identification of Uncoupling Protein 2 in Two Marsupial Species  
<sup>1</sup>Jastroch M., <sup>2</sup>Withers K. and <sup>3</sup>Klingenspor M., (<sup>1,3</sup>Marburg, <sup>2</sup>Toowoomba, AUSTRALIA)
- P-10 The morphological significance of *Trichoplax adhaerens* (Placozoa) for metazoan origins  
Tareq Syed, (Frankfurt am Main)
- P-11 Ultrastructure of adult *Phoronis ovalis* Wright, 1856 provides arguments for a bipartite coelomic organisation in the ground pattern of Phoronida  
Gruhl, A., (Bielefeld)

## HT6 Theoretische Neurobiologie

### Hauptvorträge

Dienstag, 10.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: *R. Menzel*

14<sup>00</sup>-14<sup>45</sup> Is slowness a learning principle of visual cortex? HV  
Laurenz Wiskott (Berlin)

Mittwoch, 11.06.2003 - Hörsaal Anatomie, A

Sitzungsleiter: *A. Herz*

08<sup>30</sup>-09<sup>15</sup> Balancing Homeostasis and Learning in Neural Circuits HV  
L.F. Abbott, (Brandeis, USA)

### Kurzvorträge

Session 1- Dienstag, 10.06.2003 - Kurssaal Scholtz, Haus 2

Sitzungsleiter: *H. Wagner*

11<sup>15</sup>-11<sup>30</sup> Dynamic stability and footfall patterns during quadruped locomotion S1.1  
Hackert Remi, (Jena)

11<sup>30</sup>-11<sup>45</sup> How stick insects climb across large gaps - a simulation study S1.2  
Blaesing B., Cruse H., (Bielefeld)

11<sup>45</sup>-12<sup>00</sup> A sound-localization algorithm for a mobile robot S1.3  
<sup>1,2</sup>Calmes L., <sup>1</sup>Lakemeyer G. and <sup>2</sup>Wagner H., (<sup>1</sup>Aachen, <sup>2</sup>Aachen)

12<sup>00</sup>-12<sup>15</sup> Acoustic pattern recognition in crickets by a template matching mechanism? S1.4  
Hennig, R.M., (Berlin)

12<sup>15</sup>-12<sup>30</sup> Just blink when you've got it: a fast visual attention reflex as a multimodal perception monitor in a wandering spider. S1.5  
Albert J.T., (Wien, Austria)

Session 2 - Dienstag, 10.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: *L. Wiskott*

14<sup>45</sup>-15<sup>00</sup> The Photophores of *Meganyctiphanes* (Euphausiacea): Anatomy and Signaling S2.1  
Torsten Fregin, Konrad Wiese, (Hamburg)

15<sup>00</sup>-15<sup>15</sup> Basson is essential for photoreceptor synaptic development. S2.2  
<sup>1</sup>Oliver Dick, <sup>2</sup>Susanne tom Dieck, <sup>2</sup>Wilko Altmann, <sup>3</sup>Josef Ammermüller, <sup>3</sup>Reto Weiler, <sup>4</sup>Craig C. Garner, <sup>2</sup>Eckart D. Gundelfinger, and <sup>1</sup>Johann H. Brandstätter, (<sup>1</sup>Frankfurt, <sup>2</sup>Magdeburg, <sup>3</sup>Oldenburg, <sup>4</sup>Stanford, USA)

15<sup>15</sup>-15<sup>30</sup> Analysis of tissue distribution of octopamine receptor splice variants of the fruit fly *Drosophila melanogaster* S2.3  
Christian Kähler<sup>1</sup>, Guido Schramm<sup>1</sup>, Dörte Heyden<sup>1</sup> and Thomas Röder<sup>2</sup>, (<sup>1</sup>Hamburg, <sup>2</sup>Wuerzburg)

15<sup>30</sup>-15<sup>45</sup> Pharmacological evidence for a role of ACh as circadian input factor in larval *Drosophila* S2.4  
Christian Wegener, Yasutaka Hamasaka, Dick R. Nässel, (Stockholm, Sweden)

15<sup>45</sup>-16<sup>00</sup> Functional response spectrum of genetically identified olfactory receptors in the fruit fly *Drosophila melanogaster* S2.5  
Giovanni Galizia, Tina Roeske, Daniela Pelz, (Berlin, Riverside, USA)





## HT7 Zelltod

### Hauptvorträge

Donnerstag, 12.06.2003 - Hörsaal Anatomie, A

Sitzungsleiter: *Hassel / Paululat*

08<sup>30</sup>-09<sup>15</sup> Apoptotic pathways in the nematode *C. elegans*  
Michael Hengartner, (Zürich, Schweiz)

HV



## Movies

Donnerstag, 12.06.2003 - Hörsaal Abderhaldenhaus, H2

Sitzungsleiter: *C. Schradin*

12<sup>30</sup>-13<sup>15</sup>

Namaqualand: In the Land of Mice

Movie of 45 minutes by Carsten Schradin, (Johannesburg, Republic of South Africa)



# SG1 Studiengruppe Entwicklungsbiologie

## Kurzvorträge

Session 1 - Donnerstag, 12.06.2003 - Hörsaal Scholtz, H1

Sitzungsleiter: *T. Leitz*

- 14<sup>00</sup>-14<sup>15</sup> Comparative analysis of neurogenesis in myriapods and chelicerates S1.1  
Angelika Stollewerk, Hilary Dove and Diana Kadner, (Koeln)
- 14<sup>15</sup>-14<sup>30</sup> Potassium channel KCNQ4 S1.2  
Harald Winter<sup>1</sup>, Thomas Weber<sup>1</sup>, Ulrike Zimmermann<sup>1</sup>, Karin Rohbock<sup>1</sup>, Iris Köpschall<sup>1</sup>,  
Stephanie Christ<sup>2</sup>, Karl Bauer<sup>2</sup>, Ed Walsh<sup>3</sup>, JoAnn McGee<sup>3</sup>, Marlies Knipper<sup>1</sup>, (<sup>1</sup>Tuebingen,  
<sup>2</sup>Hannover, <sup>3</sup>Omaha, USA)
- 14<sup>30</sup>-14<sup>45</sup> Vertebrate left-right asymmetry: The rabbit embryo as a model for early  
human development? S1.3  
Anja Fischer and Martin Blum, (Stuttgart)
- 14<sup>45</sup>-15<sup>00</sup> Relevance of caspase 3 during metamorphosis of *Hydractinia echinata*  
(Cnidaria) S1.4  
Wittig, K.<sup>1</sup>, Seipp, S.<sup>1</sup>, Böttger, A.<sup>2</sup>, Stiening, B.<sup>2</sup>, Leitz, T.<sup>1</sup>, (<sup>1</sup>Kaiserslautern, <sup>2</sup>Munich)
- 15<sup>00</sup>-15<sup>15</sup> Plasticity of sex-determining systems: Genetic lessons from a haplodiploid  
insect S1.5  
Beye, M., (Halle)
- 15<sup>15</sup>-15<sup>30</sup> Early development and the cranial neural crest in anurans S1.6  
<sup>1</sup>Mitgutsch C., Piekarski, N., Haas, A., and Olsson, L., (Jena)
- 15<sup>30</sup>-15<sup>45</sup> Development of the Larval Head in the Mexican Axolotl; a comparative  
perspective S1.7  
Ericsson, R.<sup>1</sup>, Falck, P.<sup>1</sup> & Olsson, L.<sup>2</sup>, (<sup>1</sup>Uppsala, Sweden, <sup>2</sup>Jena)
- 15<sup>45</sup>-16<sup>00</sup> Interactions between the virulence of a social parasite and the resistance of  
its hosts S1.8  
<sup>1</sup>Fischer B. and <sup>1</sup>Foitzik S., (<sup>1</sup>Regensburg)

## Poster

Posterpräsentation - Donnerstag, 12.06.2003 - 10<sup>30</sup>-12<sup>30</sup>

- P-1 How does *csd* switch? Studies on protein interaction between different sex  
determining alleles  
Gempe, T.; Beye, M., (Halle)
- P-2 Upregulation of Cellular Retinoid-Binding Proteins and Retinoic Acid  
Receptors after Sciatic Nerve Injury  
Jörg Mey, Nina Jeliaznik and Kirsten Schrage, (Aachen)
- P-3 A *giant* homologue in *Tribolium* – no role for gap genes in segmentation of  
the short germ abdomen?  
A. Cerny, G. Bucher and M. Klingler, (Erlangen)
- P-4 Tracking an ancient function of the *Antennapedia* superclass gene *Trox-2* in  
*Trichoplax adhaerens* (Placozoa)  
Sagasser, S.; Schierwater, B., (Hannover)

- P-5 Inhibition and expression studies on *Cnox-1* & *Cnox-5* Hox genes in the hydrozoan *Eleutheria dichotoma*  
Jakob, W. Grimm, C. & Schierwater, B., (Hannover)
- P-6 Inhibition of the *Hydra vulgaris* fibroblast growth factor-like protein, Kringelchen, prevents bud detachment  
Sudhop, S., Hassel, M., (Marburg)
- P-7 K10-7: A tenascin-like protein in *Hydra vulgaris*  
Hotz, Tobias; Bieller, Annette; Hassel, Monika, (Marburg)
- P-8 Proliferation and Differentiation of Stem Cells During Growth, Feeding and Starvation in *Macrostomum* sp. (Platyhelminthes).  
Nimeth K.T., Mahlkecht M., Mezzanato A., Rieger R. and Ladurner P., (Innsbruck, Austria)
- P-9 Cultivation of stem cells (neoblasts) from the planarian *Dugesia tahitiensis*  
R. Peter and W. Schürmann, (Salzburg, Austria)
- P-10 Cell- and tissue-specific monoclonal antibodies against *Macrostomum* sp. (Macrostomida, Platyhelminthes).  
Pfister D., Seifarth C., Ladurner P., Mahlkecht M., Salvenmoser W., Gschwentner R., Nimeth K.T., Egger B. and Rieger R.M., (Innsbruck, Austria)
- P-11 Histology and 3D reconstruction of early embryonic development of *Macrostomum* sp. (Macrostomida, Plathelminthes)  
Egger, B., Robatscher, E., Salvenmoser, W., Ladurner, P., Rieger, R.M., (Innsbruck, Austria)
- P-12 Differential transcriptional control of cochlear ion channels dependent on the onset of expression  
Marlies Knipper<sup>1</sup>, Harald Winter<sup>1</sup>, Thomas Weber<sup>1</sup>, Iris Köpschall<sup>1</sup>, Karin Rohbock<sup>1</sup>, Stephanie Christ<sup>2</sup>, JoAnn McGee<sup>3</sup>, Karl Bauer<sup>2</sup>, Ed Walsh<sup>3</sup>, Ulrike Zimmermann<sup>1</sup>, (<sup>1</sup>Tuebingen, <sup>2</sup>Hannover, <sup>3</sup>Omaha, USA)
- P-13 Oogenesis in the Mediterranean sponge *Chondrilla nucula* (Porifera, Demospongiae): general morphological aspects  
<sup>1</sup>Sidri M., <sup>2</sup>Milanese M, <sup>1</sup>Brümmer F, Pronzato R<sup>2</sup>, (<sup>1</sup>Stuttgart, <sup>2</sup>Genova, Italy)

## SG2 Studiengruppe Evolutionsbiologie

### Kurzvorträge

Session 1 - Dienstag, 10.06.2003 - Hörsaal Abderhaldenhaus, H2

Sitzungsleiter: G. Uhl

- 11<sup>15</sup>-11<sup>30</sup> Individual repeatability of female mating behaviours in the zebra finch S1.1  
Forstmeier W., (Sheffield, UK)
- 11<sup>30</sup>-11<sup>45</sup> Host alternations decelerate the Red Queen in a social parasite system S1.2  
Brandt M., Foitzik S., and Heinze, J., (Regensburg)
- 11<sup>45</sup>-12<sup>00</sup> Why be a small male? S1.3  
<sup>1</sup>Voigt C.C., <sup>2</sup>Mayer F., <sup>3</sup>Heckel G., (<sup>1</sup>Berlin, <sup>2</sup>Erlangen, <sup>3</sup>Bern, Switzerland)
- 12<sup>00</sup>-12<sup>15</sup> Fast life-history, joint take-over, and the evolution of the unusual sex ratios in redfronted lemur (*Eulemur fulvus rufus*) groups S1.4  
Julia Ostner<sup>1</sup> and Peter M. Kappeler<sup>2</sup>, (<sup>1</sup>Göttingen, Würzburg, <sup>2</sup>Göttingen)
- 12<sup>15</sup>-12<sup>30</sup> The function of duetting in tropical boubous: cooperation or conflict? S1.5  
T. Ulmar Grafe and Johannes H. Bitz, (Würzburg)

Session 2 - Dienstag, 10.06.2003 - Hörsaal Abderhaldenhaus, H2

Sitzungsleiter: E. Strom

- 14<sup>45</sup>-15<sup>00</sup> Evolutionary history of *C. elegans* and its interaction with parasites S2.1  
<sup>1</sup>Schulenburg H., <sup>2</sup>Haber M., <sup>3</sup>Schüngel M. and <sup>4</sup>Müller S., (Münster)
- 15<sup>00</sup>-15<sup>15</sup> How do male and female mating strategies affect the composition of mixed asexual-sexual populations of fish? S2.2  
Hellriegel<sup>1</sup>, Barbara, Heubel<sup>2</sup>, Katja and Schlupp<sup>3</sup>, Ingo, (<sup>1</sup>Munich, <sup>2</sup>Hamburg, <sup>3</sup>Zurich, Switzerland)
- 15<sup>15</sup>-15<sup>30</sup> Pollinator attracting odour signals in sexually deceptive orchids of the *Ophrys fusca* group S2.3  
Johannes Stökl, Manfred Ayasse, (Ulm)
- 15<sup>30</sup>-15<sup>45</sup> Is it good to respond to bad experience? – Insights from parasitoid wasps S2.4  
Thomas S. Hoffmeister<sup>1</sup>, Munjong Kolß<sup>2</sup>, Mônica Frank Kersch<sup>3</sup> & Ulf Töhlch<sup>4</sup>, (Kiel)
- 15<sup>45</sup>-16<sup>00</sup> Why do female *Argiope bruennichi* spiders consume their mating partners? S2.5  
<sup>1</sup>Schneider J.M., <sup>1</sup>Fromhage L. and <sup>2</sup>Uhl G., (Bonn)

Session 3 - Mittwoch, 11.06.2003 - Inst. für mol. Parasitologie, Haus 14

Sitzungsleiter: G. Kerth

- 11<sup>15</sup>-11<sup>30</sup> Detecting the signal of selection: sequence divergence at MHC class IIB genes between contrasting populations of three-spined sticklebacks S3.1  
<sup>1</sup>Thorsten B.H. Reusch, <sup>2</sup>K. Mathias Wegner, <sup>3</sup>Martin Kalbe, (Plön)
- 11<sup>30</sup>-11<sup>45</sup> Does mate-choice copying support the evolution of a novel male trait in sailfin mollies *Poecilia latipinna*? S3.2  
Klaudia Witte und Kerstin Kotten, (Bielefeld)
- 11<sup>45</sup>-12<sup>00</sup> Parental alarm calls: A graded signal that suppresses nestling vocalization in the White-browed Scrubwren *Sericornis frontalis*. S3.3  
Platzen D. and Magrath R.D., (Canberra, Australia)



- 12<sup>00</sup>-12<sup>15</sup> Form follows function: sperm storage in the red flour beetle S3.4  
Bernasconi Giorgina, (Zurich, Switzerland)
- 12<sup>15</sup>-12<sup>30</sup> Impact of maternal body mass on litter size and pup mass in the guinea pig S3.5  
Claudia Laurien-Kehnen, (Bielefeld)
- Session 4 - Mittwoch, 11.06.2003 - Kurssaal Scholtz, Haus 2  
Sitzungsleiter: K. Witte
- 14<sup>45</sup>-15<sup>00</sup> Song in the nightingale and it's relation to mating success S4.1  
Hansjoerg P. Kunc<sup>1</sup>, Valentin Amrhein<sup>2</sup> & Marc Naguib<sup>1</sup>, (<sup>1</sup>Bielefeld, <sup>2</sup>Saint-Louis, France)
- 15<sup>00</sup>-15<sup>15</sup> Social structuring and reproductive success among sisters and unrelated female house mice. S4.2  
<sup>1</sup>Druben, Wilhelm and <sup>2</sup>König, Barbara, (Zürich, Switzerland)
- 15<sup>15</sup>-15<sup>30</sup> Scramble and contest competition within families characterise the competitive regime of the nocturnal primate *Phaner furcifer* S4.3  
<sup>1</sup>Schülke, O., (Göttingen)
- 15<sup>30</sup>-15<sup>45</sup> Homologues of the motor protein prestin in lower vertebrates and insects? S4.4  
Thomas Weber<sup>1,4</sup>, Martin Göpfert<sup>2,4</sup>, Harald Winter<sup>1</sup>, Ulrike Zimmermann<sup>1</sup>, Daniel Robert<sup>2</sup>, Hanni Kohler<sup>3</sup>, Oliver Hendrich<sup>1</sup>, Karin Rohbock<sup>1</sup>, Marlies Knipper<sup>1</sup>, (<sup>1</sup>Tuebingen, <sup>2</sup>Bristol, UK, <sup>3</sup>Zurich, Switzerland)
- 15<sup>45</sup>-16<sup>00</sup> Inbreeding avoidance does not explain extremely male-biased dispersal in Bechstein's bats (*Myotis bechsteini*). S4.5  
Kerth G., (Zürich, Switzerland)

## Poster

Posterpräsentation - Dienstag, 10.06.2003 - 16<sup>30</sup>-18<sup>30</sup>

- P-1 Why does the bat, *Tonatia silvicola*, roost in termite nests?  
Dechmann D. K. N. <sup>1,2</sup>, Kalko E. K. V. <sup>2,3</sup> and Kerth G. <sup>1</sup>, (<sup>1</sup>Zürich, Switzerland, <sup>2</sup>Ulm, <sup>3</sup>Panama)
- P-2 Scent-communication in the Bechstein's bat: potential for individual and colony recognition.  
Safi K. and Kerth G., (Zürich, Switzerland)
- P-3 Spatial Behaviour of mated and unmated radio-tagged Nightingales (*Luscinia megarhynchos*) throughout the breeding season  
Birgit Benzing\*, Valentin Amrhein<sup>&</sup>, Hansjoerg P. Kunc\* and Marc Naguib\*, (\*Bielefeld, <sup>&</sup>Saint-Louis, France)
- P-4 Effects of brood size on nestling fitness in zebra finches  
Claudia Heim, Diego Gil<sup>&</sup> and Marc Naguib, (\*Bielefeld, <sup>&</sup>Madrid, Spain)
- P-5 The hemocyanin of two living fossils: *Nucula nucleus* and *Nautilus pompilius*  
Sandra Bergmann<sup>1</sup>, Wolfgang Gebauer<sup>1</sup>, Peter Ruth<sup>2</sup>, Jürgen Markl<sup>1</sup>, Bernhard Lieb<sup>1</sup>, (<sup>1</sup>Mainz, <sup>2</sup>Giessen)
- P-6 "Keyhole limpet hemocyanin: genes, cDNA and evolution"  
Klaus Streit, Bernhard Lieb, Jürgen Markl, (Mainz)
- P-7 Contact and hybrid zone of two sibling ant species in Southern Germany  
<sup>1</sup>Pusch, K., <sup>1</sup>Foitzik, S., <sup>2</sup>Seifert, B. and <sup>1</sup>Heinze, J., (<sup>1</sup>Regensburg, <sup>2</sup>Görlitz)

- P-8 Isolation and characterisation of six microsatellite loci in the drywood termite *Cryptotermes secundus* (Kalotermitidae)  
Fuchs A<sup>1,3</sup>, Heinze J<sup>1</sup>, Reber-Funk C<sup>2</sup> and Korb J<sup>1</sup>, (<sup>1</sup>Regensburg, <sup>2</sup>Zürich, Switzerland)
- P-9 Characterisation of bacteria associated with natural isolates of *C. elegans*  
<sup>1</sup>Schüngel, M., <sup>2</sup>Schulenburg, H., (Münster)
- P-10 Pheromonal regulation mechanisms of worker reproduction in ant colonies: queen laid eggs as honest signal?  
Annett Endler, Jürgen Liebig & Bert Hölldobler, (Würzburg)
- P-11 The marking pheromone of male European beeswolves, *Philanthus triangulum* F. (Hymenoptera, Sphecidae) contains a compound that is new to biology  
T. E. Schmitt<sup>1,2,\*</sup>, G. Herzner<sup>1</sup>, E. Strohm<sup>1</sup>, P. Schreier<sup>2</sup>, (Würzburg)
- P-12 Costs and benefits of the "widow effect" in the burying beetle *Nicrophorus vespilloides*  
Grah, G.; Müller, J. K., (Freiburg)
- P-13 A puddle of mud as a dormant storyteller: Phenotypic and genotypic characterization of *Daphnia* resting eggs over time  
<sup>1</sup>Brede N., <sup>2</sup>Straile D., <sup>2</sup>Jankowski T., <sup>1</sup>Schwenk K., (<sup>1</sup>Frankfurt am Main, <sup>2</sup>Konstanz)
- P-14 The value of encounters with bad hosts - a theoretical approach  
<sup>1</sup>Munjong Kolß, <sup>2</sup>Lia Hemerik & <sup>3</sup>Thomas S. Hoffmeister, (<sup>1,3</sup>Kiel, <sup>2</sup>Wageningen, Netherlands)
- P-15 Is there a trade-off between immunocompetence and hunting success of female European Beeswolves (Hymenoptera, Sphecidae)  
Norbert Weißel, Erhard Strohm\*, (Würzburg)
- P-16 Pyrrolizidine alkaloid sequestration by *Longitarsus* flea beetles (Coleoptera, Chrysomelidae)  
<sup>1</sup>Narberhaus I., <sup>2</sup>Hartmann, T., <sup>1</sup>Dobler S., (<sup>1</sup>Freiburg, <sup>2</sup>Braunschweig)
- P-17 Adaptive capacities of *Condylactis gigantea* (Anthozoa, Actiniaria): Genetic and environmental factors of phenotypic variation  
Stoletzki, N.; Schierwater, B., (Hannover)
- P-18 Maintenance of sex in the flatworm *Schmidtea polychroa* - testing the role for parasites and accumulation of deleterious mutations  
<sup>1</sup>Bruvo R., <sup>2</sup>Schulenburg H. and <sup>3</sup>Michiels N., (Münster)
- P-19 A burden shared is a burden halved? Energetic investment in communally nursing house mice  
<sup>1</sup>Neuhäusser-Wespy, Frieder and <sup>2</sup>König, Barbara, (Zürich, Switzerland)
- P-20 Molecular Analysis of Evolutionary Breakpoints in the Chromosomes of the Indian Muntjac Deer  
Nils Hartmann and Harry Scherthan, (Berlin)
- P-21 Effects of multiple mating and mate choice on female fitness in a spider.  
Uhl, G., Schmitt, S. and Schäfer M.A., (Bonn)
- P-22 Paternal characteristics but not paternity influence primary offspring sex ratios in the polygynous red bishop (*Euplectes orix*)  
<sup>1</sup>Friedl T.W.P., <sup>2</sup>Lubjuhn T. and <sup>1</sup>Klump G.M., (<sup>1</sup>Oldenburg, <sup>2</sup>Bonn)

- P-23 Viability and immunocompetence in nestlings of the red bishop (*Euplectes orix*): effects of brood size and nestling sex  
R. Edler and T.W.P. Friedl, (Oldenburg)
- P-24 Adjustment of male nest-building effort to female demand for new nests in the red bishop (*Euplectes orix*)  
Metz M., Friedl T.W.P. and Klump G.M., (Oldenburg)
- P-25 Population genetics of *C. elegans*  
<sup>1</sup>Haber M. and <sup>2</sup>Schulenburg H., (Münster)
- P-26 Colony founding and structure in the ant, *Cardiocondyla batesii*  
<sup>1</sup>Schrempf, A., <sup>2</sup>Tinaut, A., <sup>3</sup>Reber-Funk, C. and <sup>1</sup>Heinze, J., (<sup>1</sup>Regensburg, <sup>2</sup>Granada, Spain, <sup>3</sup>Zürich, Switzerland)
- P-27 Sperm competition results in production of few big spermatozoa in males of *Oigolaimella* n. sp. (Diplogastridae, Nematoda)  
Alexander Fürst von Lieven, (Berlin)
- P-28 The apex – size as a cue for the egg – laying – decision of *Urophora cardui* – females (Diptera: Tephritidae)  
W. Daniels<sup>1</sup>, E. Beck<sup>2</sup>, H. Zwölfer<sup>3</sup>, (Bayreuth)
- P-29 Worker policing in the clonal ant species *Platythyrea punctata*  
<sup>1</sup>Anne Hartmann, <sup>2</sup>Jan Wantia & <sup>1</sup>Jürgen Heinze, (<sup>1</sup>Regensburg, <sup>2</sup>Zürich, Switzerland)
- P-30 Health consequences of long-term colony housing in subdominant male laboratory rats  
<sup>1</sup>Dawils, L., <sup>2</sup>Pearson, S. and <sup>1</sup>Stefanski, V., (<sup>1</sup>Bayreuth, <sup>2</sup>York, UK)
- P-31 Histone H3/H4 Gene-Evolution of Stylommatophoran Landsnails  
<sup>1</sup>Böhme, M.; <sup>2</sup>Schlegel, M.; <sup>3</sup>Armbruster G.F.J., (<sup>1</sup><sup>2</sup>Leipzig, <sup>3</sup>Basel, Switzerland)
- P-32 Being heavy: multiple advantages for male bushcrickets  
<sup>1,2</sup>Lehmann G.U.C., <sup>1</sup>Lehmann A.W., (<sup>1</sup>Berlin, <sup>2</sup>Glienicke)
- P-33 New observations on the disparate early life history and morphology of *Geotrypetes seraphini* (Amphibia: Gymnophiona: Caeciliidae)  
<sup>1</sup>Hendrik Müller, <sup>1</sup>Mark Wilkinson, <sup>2</sup>Alexander Kupfer and <sup>1</sup>Julia J. Day, (<sup>1</sup>London, UK, <sup>2</sup>Darmstadt)
- P-34 Geographic parthenogenesis in the *Phyllodromica subaptera* species complex (Insecta, Blattoptera, Blattellidae, Ectobiinae)  
Thomas Kneblsberger, (München)
- P-35 Chromosomal anchoring of behavioural QTL in *Nasonia*  
Karsten B. Rütten\*, Christof Pietsch<sup>†</sup>, Leo Beukeboom<sup>‡</sup>, Klaus Olek\* and Jürgen Gadau<sup>†</sup>, (\*Rheinbach, <sup>‡</sup>Groningen, Netherlands, <sup>†</sup>Würzburg)
- P-36 The composition of the nectar secretions of Lycaenid larvae and implications for their association with ants  
Daniels H., Fiedler, K., (Bayreuth)
- P-37 New insights on species distribution and chromosomal speciation of the genus *Cryptomys* (Bathyergidae, Rodentia) in central and southern Zambia  
<sup>1</sup>Dammann, P., <sup>2</sup>Van Daele, P., <sup>3</sup>Kawalika, M. and <sup>1</sup>Burda, H., (<sup>1</sup>Essen, <sup>2</sup>Livingstone, Zambia, <sup>3</sup>Ndola, Zambia)
- P-38 A possible hybrid between the dusky dolphin (*Lagenorhynchus obscurus*) and southern right whale dolphin (*Lissodelphis peronii*)  
Parissa Yazdi, (Kiel)

## SG3 Studiengruppe Morphologie

### Kurzvorträge

Session 1 - Donnerstag, 12.06.2003 - Hörsaal Microbiologie, H4  
Sitzungsleiter: A. Schmitz

- |                                    |   |      |
|------------------------------------|---|------|
| 14 <sup>00</sup> -14 <sup>15</sup> | Plasticity in butterfly egg size: Why larger offspring at lower temperature?<br>Fischer K., (Bayreuth)  | S1.1 |
| 14 <sup>15</sup> -14 <sup>30</sup> | Depth Reversal, a Type of Optical Illusion, in Scanning Electron Micrographs of Biological Material<br>Wolf, K.W. and Reid, W., (Kingston, Jamaica)   | S1.2 |
| 14 <sup>30</sup> -14 <sup>45</sup> | Functional skeletal morphology of the contractile sponge <i>Tethya minuta</i> (Porifera, Demospongiae): new insights by synchrotron x-ray computed microtomography<br><sup>1</sup> Nickel M. and <sup>2</sup> Beckmann F., ( <sup>1</sup> Stuttgart, <sup>2</sup> Geesthacht) | S1.3 |
| 14 <sup>45</sup> -15 <sup>00</sup> | Self-cleaning surfaces of Oribatida (Acari)<br><sup>1</sup> Matischek, T., <sup>1</sup> Krisper, G., <sup>2</sup> Stabentheiner, E. and <sup>1</sup> Raspotnig, G., (Graz, Austria)   | S1.4 |
| 15 <sup>00</sup> -15 <sup>15</sup> | Intramuscular architecture of back muscles in small mammals<br>Schilling, N., (Jena)  | S1.5 |
| 15 <sup>15</sup> -15 <sup>30</sup> | Kinematic analysis of the locomotion of <i>Acomys cahirinus</i> (DESMAREST, 1819) (Rodentia: Muridae).<br>S. Freitag & M. S. Fischer, (Jena)  | S1.6 |
| 15 <sup>30</sup> -15 <sup>45</sup> | Scoliotic movements of the thoracolumbar spine in the locomotion of dogs<br><sup>1</sup> Loscher D., <sup>1</sup> Martin, F. and <sup>1</sup> Niemitz C., (Berlin)  | S1.7 |
| 15 <sup>45</sup> -16 <sup>00</sup> | Placentation in Rodentia and its bearing to the evolutionary history of Hystricognathi<br>Andrea Mess, (Berlin)   | S1.8 |

### Poster

Posterpräsentation - Donnerstag, 12.06.2003 - 10<sup>30</sup>-12<sup>30</sup>

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|-----|--|
| P-1 | Stomochord <i>versus</i> notochord – Does morphology support homology?<br>Mayer, G., (Berlin)  |
| P-2 | Structure and regeneration of the muscle system in <i>Dorvillea bermudensis</i> (Polychaeta, Dorvilleidae)<br>Hinken T. & Müller M. C. M., (Osnabrück) |
| P-3 | Structure and regeneration of the muscle system in <i>Dorvillea bermudensis</i> (Polychaeta, Dorvilleidae)<br>Hinken T. & Müller M. C. M., (Osnabrück) |
| P-4 | X-ray analytical investigations on growth rate of <i>Nautilus pompilius</i> L. (Cephalopoda)<br>Westermann B. and Beuerlein K., (Giessen)              |
| P-5 | Free sugars as antimicrobial agents on the epidermal surface of aquatic vertebrates  |

- <sup>1</sup>W. Meyer, <sup>2</sup>U. Seegers, <sup>1</sup>A. Schnapper, (Hannover)
- P-6 The nauplius eye complex in branchiopod crustaceans  
<sup>1</sup>Reimann, A. and <sup>2</sup>Richter, S., (Berlin)
- P-7 Ultrahistochemical localization of peptidoglycans in the nephrocytes of the scorpion, *Buthus occitanus*.  
Zanger, K., (Düsseldorf)
- P-8 Hitherto unknown exocrine gland within the complex eye of *Scutigera coleoptrata* Linnaeus, 1758 (Chilopoda, Scutigerozoa)  
<sup>1</sup>Rosenberg J, <sup>2</sup>Müller CHG & VB Meyer-Rochow<sup>3</sup>, (<sup>1</sup>Bochum, <sup>2</sup>Rostock, <sup>3</sup>Bremen)
- P-9 Structure and function of the maxillary organ and the maxillary organ gland of *Scutigera coleoptrata* (Chilopoda, Notostigmophora)  
Gero Hilken<sup>1</sup>, Claudia Brockmann<sup>2</sup>, Dorothee Schünke<sup>3</sup> & Jörg Rosenberg<sup>4</sup>, (<sup>1</sup>Essen, <sup>2</sup>Hamburg, <sup>3</sup>Essen, <sup>4</sup>Bochum)
- P-10 Respiratory organs in wolf spiders: functional morphology of lungs and tracheae in *Pardosa lugubris* (L.) (Arachnida, Araneae, Lycosidae)  
<sup>1</sup>Anke Schmitz, <sup>2</sup>Steven F. Perry, (Bonn)
- P-11 Jaw mechanisms of Alestiidae (Characiformes, Teleostei)  
Timo Moritz & K. Eduard Linsenmair, (Würzburg)
- P-12 Comparison of non-stereological and stereological methods for determination of gill surface area in the rainbow trout, *Oncorhynchus mykiss*.  
Höller S, and Perry, S.F., (Bonn)
- P-13 Multivariate analysis of uncinata processes in birds.  
Jonathan R. Codd and Steven F. Perry, (Bonn)
- P-14 Comparison of lung structure in neonate marsupial and placental mammals and its evolutionary significance, with special emphasis on the K/T-boundary  
Szdzy, K., Zeller, U. and Schulz, J., (Berlin)
- P-15 Analysis of cell types and cell movements in type II body extensions of the locomotory sponge *Tethya wilhelma* (Porifera, Demospongiae).  
Vitello M., Brümmer F. and Nickel M., (Stuttgart)
- P-16 External morphology of the limb development in the amphipod *Orchestia cavimana* (Crustacea, Malacostraca, Peracarida) with special focus on its mouthparts.  
<sup>1</sup>Petra Ungerer, <sup>2</sup>Carsten Wolff, <sup>3</sup>Gerhard Scholtz, (Berlin)
- P-17 Clonal composition of limbs in *Orchestia cavimana* (Crustacea, Amphipoda) – first results  
<sup>1</sup>Wolff C. and <sup>2</sup>Scholtz G., (Berlin)
- P-18 A kinematic study on the development of equine locomotion  
J. HOCHBACH<sup>1</sup>, M. GÜNTHER<sup>2</sup>, M. S. FISCHER<sup>1</sup>, (<sup>1</sup>Jena, <sup>2</sup>Bad Langensalza)
- P-19 Extrusible organelles of the family Sagittiferidae (Acoela)  
Gschwentner R, Ladurner P, Nimeth KT, Salvenmoser W, Pfister D, Egger B, Rieger RM, (Innsbruck, Austria)
- P-20 Immunoreactivity of the anterior sensory organs of *Aplysia californica* (Gastropoda, Opisthobranchia, Anaspidea)  
<sup>1</sup>Klussmann-Kolb, A. and <sup>2</sup>Croll, R. P., (<sup>1</sup>Frankfurt am Main, <sup>2</sup>Halifax, Canada)

- P-21 Morphology of fragrance manipulation in male *Euglossa* orchid bees  
Eltz T., (Düsseldorf)
- P-22 3D-modelling of the development of selected skull-features in birds.  
Becker R., (Berlin)
- P-23 High plasticity in *Drosophila* egg-laying behavior – Is there evidence of genetic variation?  
Rohlf, M. and Hoffmeister, T.S., (Kiel)
- P-24 The infrared organs of the Australian "fire-beetle" *Merimna atrata* (Coleoptera, Buprestidae): Morphological aspects of variability  
Mainz, T., Schmitz, A. and Schmitz, H., (Bonn)
- P-25 Hydrodynamic effects on morphological plasticity in *Daphnia cucullata*  
Laforsch, C., (München)
- P-26 C-Fos induction in the brain of precocial bird embryos by thermal stimuli  
Janke, O., Teklu, Y. and Tzschentke, B., (Berlin)



## SG4 Studiengruppe Neurobiologie

## Poster

Posterpräsentation - Dienstag, 10.06.2003 - 16<sup>30</sup>-18<sup>30</sup>

- P-1 Identification of candidate olfactory receptors of the moth *Heliothis virescens*  
<sup>1</sup>Krieger J., <sup>2</sup>Raming K., <sup>1</sup>Dewer Y.M.E., <sup>1</sup>Bette S., <sup>1</sup>Conzelmann S. and <sup>1</sup>Breer H., (<sup>1</sup>Stuttgart, <sup>2</sup>Monheim)
- P-2 OR37-receptors: a unique subfamily of olfactory receptors  
 Strotmann J., Hoppe R., Conzelmann S. and Breer, H., (Stuttgart)
- P-3 Evidence for an ancient non-neuronal cell type in neuroepithelia of different primary larvae  
 Schmidt S.L. and Naumann W.W., (Leipzig)
- P-4 Octopamine and recurrent lateral inhibition: Cellular parameters affected by modulation.  
 Konrad Wiese, Jyotsna Pilli, (Hamburg)
- P-5 Electrically induced motion of the organ of Corti in the guinea-pig cochlea and its possible effect on the response of inner hair cells  
 Manuela Nowotny, Hans-Peter Zenner, Anthony W. Gummer, (Tübingen)
- P-6 Motion sensitivity in the barn owl's auditory midbrain  
 Mark v.Campenhause and Hermann Wagner, (Aachen)
- P-7 The role of the pecten organs in the regulation of the body height in walking scorpions.  
 Schneider W., Böhm H. and Heinzl, H.G., (Bonn)
- P-8 Monitoring proprioceptive afferents in the main motor nerve of the stomatogastric nervous system in freely moving crayfish (*Cherax destructor albidus*).  
 Husch, A., Böhm H. and Heinzl, H.G., (Bonn)
- P-9 The transcription factor tubby – a molecular switch between behaviour and metabolism  
 Mark Seifert<sup>1</sup>, Michael Gewecke<sup>1</sup>, Thomas Roeder<sup>2</sup>, (<sup>1</sup>Hamburg, <sup>2</sup>Würzburg)
- P-10 The complete family of ligand-gated chloride channels of the fruitfly *Drosophila melanogaster*  
 Ines Witte<sup>1</sup>, Michael Gewecke<sup>1</sup> and Thomas Roeder<sup>2</sup>, (<sup>1</sup>Hamburg, <sup>2</sup>Wuerzburg)
- P-11 The effects of stimulus rise time on temporal modulation transfer functions  
 Astrid Franz & Bernhard Ronacher, (Berlin)
- P-12 Parkinson in a fly, a change during time?  
 Helge Marquardt, Guido Schramm and Thomas Roeder, (Hamburg)
- P-13 Discrimination of Natural Grasshopper Songs by Auditory Interneurons  
 Sandra Wohlgemuth<sup>1</sup>, Christian Machens<sup>2</sup> & Bernhard Ronacher<sup>1</sup>, (Berlin)
- P-14 Classification of virtual objects in the bat, *Megaderma lyra*  
 Petra Weißenbacher and Lutz Wiegrebe, (München)
- P-15 Classification of stochastic impulse responses in echolocation  
 Sven Schörnich, Jan Grunwald and Lutz Wiegrebe, (München)



- P-16 Spatial echo suppression in echolocation  
Maike Schuchmann, Mathias Hübner and Lutz Wiegbe (München)
- P-17 Ground instead of walking distances determine the direction of home vector in 3-D path integration of desert ants  
K. Maronde<sup>1</sup>, S. Wohlgemuth<sup>1</sup>, B. Ronacher<sup>1</sup>, R. Wehner<sup>2</sup>, (<sup>1</sup>Berlin, <sup>2</sup>Zürich, Switzerland)
- P-18 The natural background noise of electrosensation  
Rüdiger Krahe, Jonathan House, Niklas Lüdtkke, Ling Chen, Mark Nelson, (Urbana, USA)
- P-19 Better watch out where you go – telemetric registration of eye muscle activities in freely walking spiders  
<sup>1</sup>Trischler C. and <sup>2</sup>Schmid A., (Wien, Austria)
- P-20 A physiologically based simulation of the neural network underlying olfactory learning in the honeybee, *Apis mellifera*  
B. Grünewald, (Berlin)
- P-21 Evaluating the loudness of the salicylate induced tinnitus percept of behaving rats.  
Rüttiger L. and Knipper, M., (Tübingen)
- P-22 How do African elephants (*Loxodonta africana*) optimise goal-directed trunk movements?  
<sup>1</sup>Martin F. and <sup>1</sup>Niemitz C., (Berlin)
- P-23 Does she smell like a queen? Chemoreception of a pheromonal signal by workers of the ant *Pachycondyla inversa*.  
P D'Ettore<sup>1</sup>, J Heinze<sup>1</sup> and M Ayasse<sup>2</sup>, (<sup>1</sup>Regensburg, <sup>2</sup>Ulm)
- P-24 Behavioural ecology of desert ant navigation: is the Australian *Melophorus* an ecological equivalent of the North African *Cataglyphis*?  
Wehner, R.<sup>1</sup>; Wehner, S.<sup>1</sup>; Cheng, K.<sup>2</sup>, (<sup>1</sup>Zürich, Switzerland, <sup>2</sup>Sydney, Australia)
- P-25 Influence of female reproductive state on male-male aggression in the Australian skink *Lampropholis guichenoti*  
Hoefler, A.M., (Canberra, Australia)

# SG5 Studiengruppe Ökologie

## Kurzvorträge

Session 1 - Dienstag, 10.06.2003 - Kurssaal Scholtz, Haus 2

Sitzungsleiter: *T. Hoffmeister*

- 14<sup>45</sup>-15<sup>00</sup> Environment specific responses to foraging information in insect parasitoids S1.1  
<sup>1,2</sup>Thiel A., <sup>2</sup>Driessen G. and <sup>1</sup>Hoffmeister T.S. (<sup>1</sup>Kiel, <sup>2</sup>Leiden, The Netherlands)
- 15<sup>00</sup>-15<sup>15</sup> Volatile glandular secretions of leaf beetle larvae (Coleoptera: Chrysomelidae) prevent infections by entomopathogenic fungi. S1.2  
 Schumacher K. and Gross J. (Berlin)
- 15<sup>15</sup>-15<sup>30</sup> Cereals good for everybody? A comparison of foraging kairomones used by three parasitoid species of granivorous insects. S1.3  
<sup>1</sup>Timokov A.V., <sup>2</sup>Ruther J. and <sup>3</sup>Steidle J.L.M. (<sup>1</sup>Moscow, Russia, <sup>2</sup>Berlin, <sup>3</sup>Stuttgart)
- 15<sup>30</sup>-15<sup>45</sup> Sawfly larvae against social wasps. S1.4  
<sup>1,2</sup>Müller C. and <sup>2</sup>Brakefield P.M. (<sup>1</sup>Kiel, <sup>2</sup>Leiden, The Netherlands)
- 15<sup>45</sup>-16<sup>00</sup> Bacterial endosymbionts of terrestrial isopods: pathogens or mutualists? S1.5  
<sup>1</sup>Wang Y., <sup>2</sup>Stingl U., <sup>2</sup>Brune A. and <sup>1</sup>Zimmer M. (<sup>1</sup>Kiel, <sup>2</sup>Konstanz)

Session 2 - Mittwoch, 11.06.2003 - Hörsaal Microbiologie, H4

Sitzungsleiter: *K. Böhning-Gaese*

- 11<sup>15</sup>-11<sup>30</sup> Habitat disturbance does not disturb myrmecochorous seed dispersal: *Viola reichenbachiana* along an inundation gradient. S2.1  
<sup>1</sup>Prinzing A., <sup>2</sup>Dauber J., <sup>1</sup>Hammer E., <sup>1</sup>Schmidt-Hoffmann R., <sup>1</sup>Schönhofer A., <sup>1</sup>Wollenberg E. and <sup>1</sup>Böhning-Gaese K. (<sup>1</sup>Mainz, <sup>2</sup>Giessen)
- 11<sup>30</sup>-11<sup>45</sup> From water into soil: feeding ecology of a caecilian amphibian (genus *Ichthyophis*). S2.2  
 Kupfer A., Scheu S. and Himstedt W., (Darmstadt)
- 11<sup>45</sup>-12<sup>00</sup> Stable isotope analysis (<sup>15</sup>N) as a tool for understanding niche differentiation in oribatid mites (Acari, Oribatida). S2.3  
 Schneider K., Maraun M. and Scheu S., (Darmstadt)
- 12<sup>00</sup>-12<sup>15</sup> Does tree species composition affect ground arthropod communities? A block design study in mixed and pure stands of beech and spruce. S2.4  
 Rothländer A., Sühlig A., Entling W. and Schaefer M., (Göttingen)
- 12<sup>15</sup>-12<sup>30</sup> Effects of experimental variations in microclimate on densities of soil animals and the diversity of ants (Formicidae) of a dry grassland S2.5  
<sup>1</sup>Platner C., <sup>2</sup>Scheu S., <sup>1</sup>Woltmann L. and <sup>1</sup>Schaefer M., (<sup>1</sup>Göttingen, <sup>2</sup>Darmstadt)

## Poster

Posterpräsentation - Dienstag, 10.06.2003 - 16<sup>30</sup>-18<sup>30</sup>

- P-1 Does pollen toxicity limit pollen collection of bees?  
<sup>1</sup>Budde, J.; <sup>1</sup>Vos, N.; <sup>3</sup>Sporer, F.; <sup>2</sup>Proksch, P.; <sup>3</sup>Wink, M.; <sup>1</sup>Lunau, K., (<sup>1</sup>Düsseldorf, <sup>2</sup>Düsseldorf, <sup>3</sup>Heidelberg)
- P-2 Radiation of socially parasitic formicoxenine ants.  
<sup>1</sup>Beibl, J., <sup>2</sup>Buschinger, A., <sup>1</sup>Foitzik, S. and <sup>1</sup>Heinze, J., (<sup>1</sup>Regensburg, <sup>2</sup>Darmstadt)

- P-3 Fragmentation effects on the genetic diversity in African dragonflies: from isolation to cryptic speciation  
Giere, S., Groeneveld, L., Schierwater, B., Hadrys, H., (Hannover)
- P-4 The genetic consequences of high dispersal potential in African dragonflies  
Groeneveld, L., Giere, S., Habekost, N., Hadrys, H., (Hannover)
- P-5 Studies on the toxicological effects of platinum group elements and other traffic related metals in vivo and in vitro  
<sup>1</sup>Singer C., <sup>1</sup>Schmid M., <sup>2</sup>Krug H.F., <sup>1</sup>Zimmermann S. & <sup>1</sup>Sures, B., (Karlsruhe)
- P-6 *Heriades truncorum* versus *Colletes daviesanus*: Who is the better pollinator for composites?  
Tietz, R. & Wittmann, D., (Bonn)
- P-7 Earthworm invasion of Canadian aspen forest soils: impact on soil microarthropod communities  
<sup>1</sup>Migge, S., <sup>2</sup>Parkinson, D. & <sup>3</sup>Scheu, S., (<sup>1</sup>Göttingen, <sup>2</sup>Calgary, Canada, <sup>3</sup>Darmstadt)
- P-8 Attraction of an egg parasitoid by plant volatiles induced by egg deposition of a phytophagous insect  
Mumm, R. & Hilker, M., (Berlin)
- P-9 Change of moth ensembles along a successional gradient in the montane forest zone in southern Ecuador  
Hilt, N. & Fiedler, K., (Bayreuth)
- P-10 The role of rivers for the biogeographic evolution of lemurs in Madagascar  
Ganzhorn, J.U.<sup>1</sup> & Goodman, S.M.<sup>2</sup>, (<sup>1</sup>Hamburg, <sup>2</sup>Chicago, USA)
- P-11 Bumblebees (*Bombus terrestris*) innate preferences of component colours in floral colour patterns  
Heuschen, B., Gumbert, A. & Lunau, K., (Düsseldorf)
- P-12 Influence of chemical pollution (Cd, PCB 126) on the physiological homeostasis of the European eel (*Anguilla anguilla*) infected with the neozotic eel parasite *Anguillicolaa crassus*  
<sup>1</sup>Sures, B., <sup>2</sup>Knopf, K., <sup>2</sup>Kloas, W., <sup>3</sup>Segner, H. & <sup>4</sup>Gutzeit H., (<sup>1</sup>Karlsruhe, <sup>2</sup>Berlin, <sup>3</sup>Bern, Schweiz, <sup>4</sup>Dresden)
- P-13 Genetic population structure of freshwater invertebrates on a small geographical scale  
Westermann, I., Brändle, M. & Brandl, R., (Marburg)
- P-14 Population structure of the brown trout (*Salmo trutta* f. vario L.) on a small geographical scale  
Blum, S., Brändle, M. & Brandl, R., (Marburg)
- P-15 MHC variability and parasite resistance in a small lemur in the littoral forest fragments of southeastern Madagascar  
Schad, J., Sommer, S. & Ganzhorn, J.U., (Hamburg)
- P-16 Annual and acoustic partitioning of anuran species at a breeding pond in a mountain forest of western Kenya  
Scheelke, K.<sup>1</sup>, Schick, S.<sup>1</sup>, Lötters, S.<sup>1,2</sup>, Rotich, D.<sup>2</sup> & Veith, M.<sup>1</sup>, (<sup>1</sup>Mainz, <sup>2</sup>Nairobi, Kenya)
- P-17 Larval secretions and regurgitate of leaf beetles (Coleoptera: Chrysomelidae) inhibit the growth of the entomopathogenic bacterium *Bacillus thuringiensis*  
<sup>1</sup>Gross, J. & <sup>2</sup>Schumacher, K., (Berlin)

- P-18 Adding to ‘the enigma of soil animal diversity’: why do soil decomposer animals prefer similar food substrates?  
Maraun M., Schneider K., Scheu S., (Darmstadt)
- P-19 Interactions of microflora, Collembola and predatory mites in decomposing litter of different quality  
Albers, D., Saul, M. & Alpehi, J., (Göttingen)
- P-20 Abundance and distribution patterns of sponges (Porifera) in the Limski Kanal, Croatia.  
Zucht, W., Sidri, M. & Brümmer, F., (Stuttgart)
- P-21 Oxygen uptake in submerged larvae of *Phaeoxantha klugii* (Coleoptera: Cicindelidae)  
<sup>1</sup>Zerm M., <sup>2</sup>Zinkler D., & <sup>1</sup>Adis J., (<sup>1</sup>Plön, <sup>2</sup>Bochum)
- P-22 Water proofing of honey bee prey by the European Beewolf *Philanthus triangulum* (Hymenoptera: Sphecidae)  
Herzner, G., Schmitt, T. & Strohm, E., (Würzburg)
- P-23 New man-made heavy metal contaminations: bioaccumulation of platinum group metals (Pt, Pd, Rh) emitted from automobile catalytic converters in mussels, fish and parasites  
Zimmermann, S., Taraschewski, H. & Sures, B., (Karlsruhe)
- P-24 Amphibian assemblages in primary, secondary and fragmented forests in western Ivory Coast  
Annika Hillers<sup>1</sup>, Mark-Oliver Rödel<sup>1,2</sup> & Michael Veith<sup>1</sup>, (<sup>1</sup>Mainz, <sup>2</sup>Würzburg)
- P-25 Amphibian assemblages in primary, secondary and fragmented forests in western Ivory Coast  
Annika Hillers<sup>1</sup>, Mark-Oliver Rödel<sup>1,2</sup> & Michael Veith<sup>1</sup> (<sup>1</sup>Mainz, <sup>2</sup>Würzburg)



## SG6 Studiengruppe Physiologie

### Kurzvorträge

Session 1 - Donnerstag, 12.06.2003 - Hörsaal Abderhaldenhaus, H2

Sitzungsleiter: W. M. Weber

- 14<sup>00</sup>-14<sup>15</sup> How does the eye breathe? Evidence for neuroglobin-mediated oxygen supply in the mammalian retina. S1.1  
<sup>1,4</sup>Burmester T., <sup>1</sup>Schmidt M., <sup>2</sup>Gießl A., <sup>3</sup>Laufs T., <sup>2</sup>Wolfrum U., and <sup>3</sup>Hankeln T., (Mainz)
- 14<sup>15</sup>-14<sup>30</sup> Functional implications of varying histidine content in vertebrate haemoglobins. S1.2  
 Berenbrink M., (Liverpool, UK)
- 14<sup>30</sup>-14<sup>45</sup> 3D-reconstruction of the quaternary structure of invertebrate hemolymph proteins from cryo-electron micrographs. S1.3  
 Meissner U., Stohr M., Martin A., Schwarz B. and Markl J., (Mainz)
- 14<sup>45</sup>-15<sup>00</sup> The V<sub>1</sub>-subunit C mediates binding of the insect plasma membrane V-ATPase to the actin cytoskeleton. S1.4  
 Vitavska O., Wieczorek H., and Merzendorfer H., (Osnabrück)
- 15<sup>00</sup>-15<sup>15</sup> *Caenorhabditis elegans* Peroxiredoxins: Novel neuroprotective agents? S1.5  
 Isermann K., Liebau E., and Bruchhaus I., (Hamburg)
- 15<sup>15</sup>-15<sup>30</sup> Rhythmic valve closure accompanied by metabolic depression enables *Corbicula fluminea* to exploit the available nourishment very efficiently S1.6  
 Ortman Ch. and Grieshaber M.K., (Düsseldorf)
- 15<sup>30</sup>-15<sup>45</sup> Survival of the cold-stenothermal gadid *Lota lota* in eurythermal freshwater habitats. S1.7  
 Hardewig I., (Berlin)
- 15<sup>45</sup>-16<sup>00</sup> Antimicrobial peptides of the amoebapore superfamily identified in the soil nematode *Caenorhabditis elegans*. S1.8  
 Matthias Leippe M. and Roeder Th., (Wuerzburg)

### Poster

Posterpräsentation - Donnerstag, 12.06.2003 - 10<sup>30</sup>-12<sup>30</sup>

- P-1 Tracheal Compliance as a Factor Extending Respiratory Constriction in Insects  
 Förster T.D., Heisler, N. and Hetz S.K., (Berlin)
- P-2 Respiratory control during early development in zebrafish (*Danio rerio*)  
 Schwerte T.<sup>1</sup>, Turesson J.<sup>2</sup>, Pelster, B.<sup>1</sup> and Sundin, L.<sup>2</sup>, (<sup>1</sup>Innsbruck, Austria, <sup>2</sup>Göteborg, Sweden)
- P-3 Perfusate pH Conditioning in the Isolated Trout Pseudobranch  
 K. Sieben, W. Waser, N. Heisler, (Berlin)
- P-4 Effect of Abdominal Movements on Respiratory Gas Exchange in Pupae of *Zophobas rugipes*  
 A. Wobschall<sup>1</sup>, S. K. Hetz<sup>1</sup>, N. Heisler<sup>1</sup>, (Berlin)
- P-5 Oxygen Partial Pressure Controlling Spiracular Conductance in Insects  
 Grabbert M., Heisler N. and Hetz, S. K., (Berlin)

- P-6 Expression of neuroglobin and cytoglobin in mammalian tissues  
<sup>1,5</sup>Schmidt, M., <sup>2</sup>Wystub, S., <sup>3</sup>Laufs, T., <sup>3</sup>Reuss, S., <sup>4</sup>Saaler-Reinhardt, S., <sup>2</sup>Hankeln, T., and <sup>1</sup>Burmester, T., (Mainz)
- P-7 Structure and evolution of myriapod hemocyanins.  
<sup>1,5</sup>Hagner-Holler, S., <sup>2</sup>Kusche, K., <sup>1</sup>Hembach, A. and <sup>1</sup>Burmester, T., (Mainz)
- P-8 Hemocyanin and ferritin: the two major proteins in the hemolymph of the marine mollusc *Acanthochiton fascicularis*  
Gebauer W., Harris J.R., Fitsch A., and Markl J., (Mainz)
- P-9 Characterisation of effector binding sites of the hemocyanin of the european lobster, *Homarus vulgaris*  
<sup>1</sup>Bauer, A.; <sup>1</sup>Grieshaber, M. K., (Düsseldorf)
- P-10 Comparison of the 3D-structure of two hexamerins from *Drosophila melanogaster*  
Andreas G. Martin, Ulrich Meissner and Jürgen Markl, (Mainz)
- P-11 Characterization of the Quaternary Structure of the 4x6 Hemocyanin from the Spider *Eurypelma californicum* by 3D-Reconstruction from cryo-TEM  
Michael Stohr, Ulrich Meissner and Jürgen Markl, (Mainz)
- P-12 Structure and evolution of chelicerate hemocyanins  
Markl J., Averdam A., Ballweber P, Jacobs S., and Burmester T., (Mainz)
- P-13 Structure and assembly of spherules within the sternal CaCO<sub>3</sub> deposits in *Porcellio scaber* (Crustacea, Isopoda)  
Fabritius, H.; Ziegler, A., (Ulm)
- P-14 Epithelial Mg<sup>2+</sup>-transport may contribute to amorphous CaCO<sub>3</sub> formation in the sternal deposits of *Porcellio scaber*.  
Andreas Ziegler und Helge Fabritius, (Ulm)
- P-15 Characterization of a SERCA in the calcium-transporting sternal epithelium of the terrestrial isopod *Porcellio scaber* (Crustacea)  
M. Hagedorn<sup>1</sup>, D. Weihrauch<sup>2</sup>, H. Merzendorfer<sup>3</sup>, A. Ziegler<sup>1</sup>. <sup>(1</sup>Ulm, <sup>2</sup>Chicago, USA, <sup>2</sup>Osnabrück)
- P-16 Expression patterns of two isoforms of the vacuolar-type ATPase subunit B during embryogenesis of the zebrafish (*Danio rerio*)  
Schredelseker J., S.T. Boesch and Pelster B., (Innsbruck, Austria)
- P-17 Protein kinase C-dependent control of CaMKII activity in the plasma membrane of gastric mucosal cells of rabbit  
M. Kaufhold<sup>1</sup>, T. Rieg<sup>2</sup>, U. Seidler<sup>2</sup>, und M. Fährmann<sup>1,2</sup>, <sup>(1</sup>Münster, <sup>2</sup>Tübingen)
- P-18 Estrogenic Effect of UV Screen Eusolex 6300 in *Xenopus laevis* Hepatocyte Cultures  
Klann A.<sup>1</sup>, Lutz I.<sup>2</sup>, Levy, G.<sup>2</sup>, Müller, C.<sup>1</sup>, Kloas, W.<sup>2</sup> and Hildebrandt, J.-P.<sup>1</sup>, <sup>(1</sup>Greifswald, <sup>2</sup>Berlin)
- P-19 Molecular Characterization and *in vitro* Regulation of Cell Cycle Regulator p27<sup>Kip1</sup> in Avian Nasal Glands  
Schill T., Müller C. and Hildebrandt J.-P., (Greifswald)
- P-20 Permeability properties of pleated septate junctions  
Walz, B., Karabensch, K.H., Stehr, K., (Potsdam)
- P-21 Effects of extracellular ATP on volume regulation of fish hepatocytes  
<sup>1</sup>Pafundo D., <sup>2</sup>Krumschnabel G. and <sup>3</sup>Schwarzbaum P.J., <sup>(1</sup>Buenos Aires, Argentina, <sup>2</sup>Innsbruck, Austria, <sup>3</sup>Buenos Aires, Argentina)

- P-22 Volume changes, metabolism and ion homeostasis during anisosmotic exposure of trout hepatocytes  
<sup>1</sup>Prem C., <sup>2</sup>Gstir R., <sup>2</sup>Manzl C., <sup>3</sup>Pafundo D., <sup>3</sup>Schwarzbaum P.J., <sup>2</sup>Pelster B. and <sup>2</sup>Krumschnabel G., (<sup>1</sup>Innsbruck, Austria, <sup>2</sup>Innsbruck, Austria, <sup>3</sup>UBA, Argentina)
- P-23 *Lumbricus terrestris* (Annelida) is the phylogenetically lowest terrestrial animal shown to have a typical ENaC  
 Goebel S.G., Krumm S., Clauss W.G., (Giessen)
- P-24 Ionic and osmotic hemolymph concentrations in beetles  
<sup>1</sup>C. Hille, <sup>2</sup>I. Zerbst-Boroffka, (Berlin)
- P-25 Magnesium in the hemolymph of dung beetle *Anoplotrupes stercorosus* (Scriba) and king mealworm *Zophobas atratus* Fab.  
<sup>1</sup>R. Schröder, <sup>2</sup>I. Zerbst-Boroffka, (Berlin)
- P-26 Regulation of fat body energy stores by adipokinetic hormone in larval and adult crickets, *Gryllus bimaculatus*  
 Lorenz, M.W., Anand, A.N., (Bayreuth)
- P-27 Can temperature effects be compensated by metabolic strategies in starving fish?  
 Binner M., van Dijk P.L.M. and Hardewig I., (Berlin)
- P-28 Octopine-dehydrogenase from the scallop *Pecten maximus*: New insights into its reaction-mechanism  
<sup>1</sup>Müller, A., <sup>1</sup>Janßen, F., <sup>1</sup>Grieshaber, M.K., (Düsseldorf)
- P-29 Investigation of the Ligandbinding of recombinant Octopine Dehydrogenase by Isothermal Titrationcalorimetry (ITC)  
 Nadine van Os and Manfred K. Grieshaber, (Düsseldorf)
- P-30 Characterisation of Multiple Opine Dehydrogenases from Several Marine Invertebrates  
<sup>1</sup>Hergert U. and <sup>1</sup>Grieshaber M.K., (Düsseldorf)
- P-31 Dietary L-Carnitine Stimulates Carnitine Acyltransferases and Downregulates Phosphoenole Pyruvate Carboxykinase in the Liver of Aged Rats  
<sup>1</sup> Karlic H., <sup>2</sup>Lohninger S., and <sup>2</sup>Lohninger A., (Vienna, Austria)
- P-32 Acute toxicity of copper and cadmium in hepatopancreas cells from *Helix pomatia*: effects on energetics, ion homeostasis and cell structure  
<sup>1</sup>Manzl C., <sup>2</sup>Krumschnabel G., <sup>2</sup>Ebner H. and <sup>2</sup>Dallinger R., (Innsbruck, Austria)
- P-33 Short-term effects of cadmium and copper on energetics and ion homeostasis in trout hepatocytes  
<sup>1</sup>Krumschnabel G., <sup>2</sup>Manzl C., <sup>2</sup>Ebner H., <sup>2</sup>Köck G. and <sup>2</sup>Dallinger R., (Innsbruck, Austria)
- P-34 Copper-induced formation of reactive oxygen species causes a disruption of calcium homeostasis in trout hepatocytes  
<sup>1</sup>Ebner H., <sup>2</sup>Manzl C., <sup>2</sup>Enrich J., <sup>2</sup>Dallinger R. and <sup>2</sup>Krumschnabel G., (Innsbruck, Austria)
- P-35 Epithelial innate immune responses of *Drosophila melanogaster*  
 Thomas Roeder, Matthias Leippe, (Wuerzburg)
- P-36 Different plasmatocyte subtypes in the Colorado potato beetle *Leptinotarsa decemlineata* Say  
 Schmidtberg H., Ruth P., Trenczek T., (Giessen)



- P-37 Morphological and immunohistological investigations of “easy bleeding” and “non-easy bleeding” Tenthredinidae  
Angeli S., Trenczek T., (Giessen)
- P-38 The call of the male Mongolian Gazelle (*Procapra gutturosa* PALLAS, 1777)  
Alban Gebler and Roland Frey, (Berlin)
- P-39 Echolocation range and wing beat period match in aerial-hawking bats  
<sup>1</sup>Holderied M.W. and <sup>2</sup>v. Helversen O., (<sup>1</sup>Bristol, UK, <sup>2</sup>Erlangen)

## SG7 Studiengruppe Verhaltensbiologie

### Kurzvorträge

Session 1 - Mittwoch, 11.06.2003 - Hörsaal Abderhaldenhaus, H2  
Sitzungsleiter: S. Kaiser

- 14<sup>45</sup>-15<sup>00</sup> Effects of developmental stress on nestling development in zebra finches. S1.1  
<sup>1</sup>Naguib M., Katharina <sup>2</sup>Riebel K. and <sup>3</sup>Gil D., (<sup>1</sup>Bielefeld, <sup>2</sup>Leiden, Netherlands, <sup>3</sup>Madrid, Spain)
- 15<sup>00</sup>-15<sup>15</sup> Effects of Social Stress in Pregnant Rats. S1.2  
Stefanski V. and Raabe C., (Bayreuth)
- 15<sup>15</sup>-15<sup>30</sup> Social flexibility in the South African striped mouse (*Rhabdomys pumilio*): when to live alone and when to live in groups? S1.3  
Schradin C., (Johannesburg, South Africa)
- 15<sup>30</sup>-15<sup>45</sup> Social organization of red-tailed sportive lemurs (*Lepilemur ruficaudatus*). S1.4  
<sup>1</sup>Zinner D., <sup>1,2</sup>Hilgartner R.D., <sup>1</sup>Kappeler P.M., <sup>3</sup>Ganzhorn J.U., (<sup>1</sup>Göttingen, <sup>2</sup>Ulm, <sup>3</sup>Hamburg)
- 15<sup>45</sup>-16<sup>00</sup> Competing females and caring males. Polyandry, sex-role reversal and hormones in African black coucals (*Centropus grillii*). S1.5  
<sup>1,2</sup>Goymann W. and <sup>1</sup>Wingfield J.C., (<sup>1</sup>Seattle, USA, <sup>2</sup>Andechs)

Session 2 - Donnerstag, 12.06.2003 - Kurssaal Scholtz, Haus 2  
Sitzungsleiter: G. Dehnhardt

- 14<sup>45</sup>-15<sup>00</sup> Interspecific communication in Malagasy primates. S2.1  
Fichtel C., (Leipzig)
- 15<sup>00</sup>-15<sup>15</sup> Honey pots as information stores in bumble bees. S2.2  
<sup>1</sup>Dornhaus A., (Bristol, UK)
- 15<sup>15</sup>-15<sup>30</sup> Noise-dependent song amplitude regulation in a territorial songbird. S2.3  
Brumm H. and Todt D., (Berlin)
- 15<sup>30</sup>-15<sup>45</sup> A longitudinal study of the song characteristics in nightingales (*Luscinia megarhynchos*). S2.4  
Kipper S., Mundry R., Hultsch H. and Todt D., (Berlin)
- 15<sup>45</sup>-16<sup>00</sup> Preference functions of several species of mollies: differences and similarities. S2.5  
<sup>1,2</sup>Schlupp I., <sup>2</sup>Scott S., <sup>2,3</sup>Heubel K., <sup>1</sup>Obrist G., and <sup>2</sup>Ryan M.J., (<sup>1</sup>Zürich, Switzerland, <sup>2</sup>Austin, USA, <sup>3</sup>Hamburg)

### Poster

Posterpräsentation - Donnerstag, 12.06.2003 - 10<sup>30</sup>-12<sup>30</sup>

- P-1 A handheld and portable gas chromatograph: A new tool for behavioural biologists  
Caspers, B., Voigt, C.C., Hofer, H., (Berlin)
- P-2 Make a home or roam – residents and transients in a common weasel (*Mustela nivalis*) population in Kielder Forest; Northumberland  
<sup>1,2</sup>Miriam Brandt, <sup>2</sup>Xavier Lambin, (<sup>1</sup>Bielefeld, <sup>2</sup>Aberdeen, UK)

- P-3 Application of an androgen-receptor blocker during pregnancy affects the behavioural development of male guinea pigs  
Dirk Wewers, Sylvia Kaiser, Norbert Sachser, (Muenster)
- P-4 Acoustic communication in giant forest hogs  
(*Hylochoerus meinertzhageni*)  
<sup>1</sup>Fimpel, S., <sup>2</sup>Frommolt, K.-H., (Berlin)
- P-5 No matching concept in teleost fish (*Lepomis gibbosus*)?  
Königs K.H. and Bleckmann H., (Bonn)
- P-6 Directivity of domestic dog vocalizations under anechoic conditions  
Frommolt, K.-H., (Berlin)
- P-7 Can female guinea pigs integrate into established colonies of conspecifics?  
The influence of social rearing conditions.  
Nübold T., Rohlmann I., Kemme K., Kaiser S. and Sachser N., (Muenster)
- P-8 Task allocation in the ant *M. eumenooides*: the role of cuticular hydrocarbons and free ecdysteroids  
Lengyel F. and Kaib M., (Bayreuth)
- P-9 Female Choice in the Lesser Hedgehog Tenrec, *Echinops telfairi*?  
Pola von Schweinitz<sup>1</sup> & Ruth Thomsen<sup>2</sup>, (<sup>1</sup>Munich, <sup>2</sup>Berlin)
- P-10 Olfactory sensitivity for androstenone in three species of nonhuman primates  
<sup>1</sup>Matthias Laska, <sup>1</sup>Alexandra Wieser, <sup>2</sup>Laura Teresa Hernandez Salazar, (<sup>1</sup>Munich, <sup>2</sup>Xalapa, Mexico)
- P-11 The role of information transfer during foraging in the nectar-feeding ant *Camponotus rufipes*  
Geissler, O. ; Roces, F., (Würzburg)
- P-12 Effects of Social Stress in Laboratory Rats: Immune Changes in Blood and Lymph Nodes  
Hogg, A.K. and Stefanski, V., (Bayreuth)
- P-13 Sperm quality in Felids  
<sup>1</sup>Thomsen R, <sup>2</sup>Stoebel, K., (Berlin)
- P-14 Latent Song-Type Memories In Hand-Reared Nightingales  
N. Geberzahn & D. Todt, (Berlin)
- P-15 Do song features vary with age in free-living nightingales?  
Spiess A., Mundry R. and Todt D., (Berlin)
- P-16 Spatial memory and orientation strategies in elasmobranchs, *Potamotrygon sp.*  
Schlüssel V. and Bleckmann H., (Bonn)
- P-17 Is there an endocrinological basis of low stress responsiveness around puberty?  
Wegner, J.; Hornschuh, G.; Kaiser, S.; Sachser, N., (Muenster)
- P-18 Does the type of pond affect acoustic communication in the clawed frog (*Xenopus laevis laevis*)?  
<sup>1</sup>De Vries Ch., <sup>2</sup>Frommolt KH. and <sup>1</sup>Elefandt A., (Berlin)
- P-19 Investigation of acoustic communication under water in the toad *Pelobates fuscus fuscus*  
<sup>1</sup>Kaufmann M., <sup>2</sup>Frommolt K.-H., <sup>1</sup> Pelz B., <sup>1</sup>Elefandt A., (Berlin)

- P-20 Effects of water scarcity on redfronted lemur (*Eulemur fulvus rufus*) ranging behavior  
<sup>1</sup>Kappeler P. M. and <sup>2</sup>Scholz F., (Göttingen)
- P-21 Comparison of the hydrodynamic trails of the teleosts *Colomesus psittacus*, *Lepomis gibbosus* and *Thysochromis ansorgii* measured with scanning particle image velocimetry  
Wolf Hanke<sup>1</sup> and Horst Bleckmann, (Bonn)
- P-22 Preference tests with restricted interaction: The risk of fallacy  
<sup>1</sup>Adrian, O.; <sup>1</sup>Hohoff, C.; <sup>2</sup>Löttker, P.; <sup>1</sup>Franzen, K.; <sup>1</sup>Sachser, N., (<sup>1</sup>Muenster, <sup>2</sup>Goettingen)
- P-23 Aggregation dynamics of Arctic deep-sea scavenging amphipods  
<sup>1</sup>Premke K. and <sup>2</sup>Klages M., (Bremerhaven)



## SG8 Studiengruppe Zoologische Systematik

### Kurzvorträge

Session 1 - Dienstag, 10.06.2003 - Hörsaal Mikrobiologie, H4

Sitzungsleiter: *M. Ohl*

- 11<sup>15</sup>-11<sup>30</sup> Phylogeny of embryonic nourishment in marsupials. S1.1  
<sup>1</sup>Freyer C., <sup>2</sup>Zeller U., <sup>1</sup>Renfree M.B., (<sup>1</sup>Melbourne, Australia, <sup>2</sup>Berlin)
- 11<sup>30</sup>-11<sup>45</sup> Molecular data indicate a monophyletic origin of several Amphipoda S1.2  
 (Crustacea, Peracarida) families.  
 Englisch U. and Wägele J.W., (Bochum)
- 11<sup>45</sup>-12<sup>00</sup> The phylogenetic utility of mitochondrial ribosomal genes– S1.3  
 a case study in anurans.  
 Hertwig S., Haas A., (Jena)
- 12<sup>00</sup>-12<sup>15</sup> Discovery and evolution of Aspidytidae, a new family of aquatic beetle S1.4  
 (Coleoptera, Adephaga).  
<sup>1</sup>Balke M., <sup>1</sup>Ribera I., <sup>1</sup>Vogler A. and <sup>2</sup>Beutel R.G., (<sup>1</sup>London, UK, <sup>2</sup>Jena)
- 12<sup>15</sup>-12<sup>30</sup> Camouflaging structures in Reduviidae (Heteroptera, Insecta). S1.5  
 Weirauch Ch. and Sudhaus W., (Berlin)

Session 1 - Mittwoch, 11.06.2003 - Hörsaal Mikrobiologie, H4

Sitzungsleiter: *C. Held*

- 14<sup>45</sup>-15<sup>00</sup> Evolution of phytophagy within the Heteroptera. S2.1  
 Fischer Ch., (Berlin)
- 15<sup>00</sup>-15<sup>15</sup> Basal diversification and wing evolution in stick insects S2.2  
 (Insecta: Phasmatodea)  
 Bradler S., (Göttingen)
- 15<sup>15</sup>-15<sup>30</sup> The V4 ribosomal expansion segment and its utility in a phylogenetic S2.3  
 context.  
<sup>1</sup>Held C. and <sup>2</sup>Holland B.R., (<sup>1</sup>Bochum, <sup>2</sup>New Zealand)
- 15<sup>30</sup>-15<sup>45</sup> Reconstruction of the phylogeny of the Opisthobranchia (Mollusca, S2.4  
 Gastropoda) by means of 18S and 28S rDNA sequences.  
 Vonnemann V., Wägele H., (Bochum)
- 15<sup>45</sup>-16<sup>00</sup> The foregut-structures of the Brachyura, morphology and phylogenetic S2.5  
 significance.  
 Brösing A., (Berlin)

### Poster

Posterpräsentation - Donnerstag, 12.06.2003 - 10<sup>30</sup>-12<sup>30</sup>

- P-1 A Key to the Families of the Janiroidea (Crustacea: Isopoda)  
<sup>1</sup> Brenke N., <sup>1</sup> Wägele J.W. and <sup>3</sup> Brandt A., (<sup>1</sup>Bochum, <sup>2</sup>Hamburg)
- P-2 Population dynamics of honey bee colonies (*Apis mellifera* L.) in  
 relation to parasitic infections  
<sup>1</sup>Aumeier P., <sup>2</sup>Boecking O. and <sup>3</sup>Ervojic M., (<sup>1</sup>Bochum, <sup>2</sup>Celle, <sup>3</sup>Bonn)
- P-3 Morphological evidence for the monophyly of the *Zygentoma* (Insecta)  
<sup>1</sup>Volmari, R. & <sup>2</sup>Koch, M., (<sup>1</sup>Bielefeld, <sup>2</sup>Berlin)

- P-4 Chemotaxonomy in the Oribatida (Acari): Evaluation of stable intraspecific oil gland secretion profiles  
Rasputnig, G., Schuster, R. and Krisper, G., (Graz, Austria)
- P-5 Mitochondrial gene order of the gadilid scaphopod, *Siphonodentalium lobatum* (Mollusca)  
Dreyer, H. and Steiner, G., (Vienna, Austria)
- P-6 Phylogeny of the hydrothermal gastropod family Provannidae (Caenogastropoda)  
Sobjinski, Kathrin and Beck, Lothar A., (Marburg)
- P-7 Larval development and morphogenesis of the sea spider *Pycnogonum litorale* (Ström, 1762)  
Kathia Vilpoux<sup>1</sup> and Dieter Waloßek<sup>2</sup>, (Ulm)
- P-8 Molecular phylogeny within the Staphyliniformia (Coleoptera) inferred from different mitochondrial and nuclear gene sequences  
<sup>1</sup>Korte A., <sup>1</sup>Bernhard D. and <sup>2</sup>Beutel R., (<sup>1</sup>Leipzig, <sup>2</sup>Jena)
- P-9 Creating the virtual museum: lessons from the DORSA project (Deutsche Orthopteren Sammlungen – German Orthoptera collections)  
<http://www.dorsa.de>  
<sup>1</sup>Riede K., <sup>1</sup>Ingrisch S., <sup>1</sup>Lampe K.-H., (Bonn)
- P-10 From Europe to Africa and back – evidence for multiple intercontinental dispersal in ribbed salamanders (genus *Pleurodeles*)  
Michael Veith<sup>1</sup>, Christian Mayer<sup>1</sup>, Boudjema Samraoui<sup>2</sup>, David Donaire Barroso<sup>3</sup> and Serge Bogaerts<sup>4</sup>, (<sup>1</sup>Mainz, <sup>2</sup>Annaba, Algeria, <sup>3</sup>Norwich, UK, <sup>4</sup>Arnhem, The Netherlands)
- P-11 The Global Taxonomy Initiative (GTI): national and international perspectives  
Christoph L Häuser, Fabian Haas, (Stuttgart)
- P-12 The Global Species Register for Butterflies - GART (Globales Artregister Tagfalter)  
Häuser, C. L., Holstein, J. and Steiner, A., (Stuttgart)
- P-13 Phylogeography of Lesser Black-backed Gulls (*Larus fuscus*)  
<sup>1,2</sup>Dorit Liebers & <sup>1</sup>Andreas J. Helbig, (Greifswald)
- P-14 Multiple evolution of conditional mature colour change in African tree frogs, genus *Hyperolius*  
Stefan Lötters<sup>1</sup>, Joachim Kosuch<sup>1</sup>, Mark-Oliver Rödel<sup>1,2</sup>, Michael Veith<sup>1</sup>, (<sup>1</sup>Mainz, <sup>2</sup>Würzburg)
- P-15 Skeletal ontogeny of *Indostomus paradoxus* and its significance for the phylogenetic relationships of Indostomidae (Teleostei: Gasterosteiformes)  
Ralf Britz<sup>1,2</sup> and G. David Johnson<sup>2</sup>, (<sup>1</sup>Tübingen, <sup>2</sup>Washington, U.S.A.)
- P-16 Phylogeography and systematic relationships of the genus *Macrolepta* (Coleoptera, Chrysomelidae)  
Kölsch G.<sup>1</sup>, Biström O.<sup>2</sup>, Pedersen B.V.<sup>3</sup>, (<sup>1</sup>Kiel, <sup>2</sup>Helsinki, Finland, <sup>3</sup>Copenhagen, Denmark)
- P-17 The turtle genus *Mauremys* (Geoemydidae): A text-book example for an east-west disjunction or a taxonomic misconception?  
<sup>1</sup>Barth D., <sup>1</sup>Bernhard D., and <sup>2</sup>Fritz U., (<sup>1</sup>Leipzig, <sup>2</sup>Dresden)
- P-18 Phylogenetic Analyses and Revision of Remipedia (Crustacea)  
Stefan Koenemann and Frederick R. Schram, (Amsterdam, The Netherlands)

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