



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN
DER PRÄSIDENT



24. Jahrestagung der Deutschen Gesellschaft für Protozoologie

2. bis 5. März 2005
Burg Lichtenberg, Pfalz

Programm



Pfälzer Bergland
Kuseler Musikantenland



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TU Kaiserslautern
Abteilung Ökologie
Erwin-Schrödinger Straße
D-67663 Kaiserslautern
dgp-2005@rhrk.uni-kl.de
www.protozoologie.de

Dr. Thorsten Stoeck & Martin Simon

Liebe Teilnehmer/innen der DGP Tagung 2005,

wir freuen uns, dass Sie unserer Einladung zur 24. DGP-Tagung auf der Burg Lichtenberg bei Kaiserslautern gefolgt sind.

Da das Ausrichten einer wissenschaftlichen Tagung fast nicht ohne die Hilfe von Sponsoren möglich ist, möchten wir uns im Vorfeld ganz herzlich bei allen bedanken, die die 24. Jahrestagung der DGP unterstützen.

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R h e i n l a n d - P f a l z



Mittwoch 2. März 2005

Ab 15.00 *Jugendherberge; Burg Lichtenberg; Anreise, Einchecken*

20.00 *Zehntscheune, Vortragsraum*

Begrüßung der TagungsteilnehmerInnen durch die Organisatoren

Grußwort des Landrates des Kreises Kusel Dr. Winfried Hirschberger

Anschließend Umtrunk, Wiedersehen, Kennen lernen im Rittersaal

Donnerstag, 3. März 2005

9.00 *Eröffnung der Tagung durch den Präsidenten der TU-Kaiserslautern
Helmut Schmidt*

Diversität/Phylogenie/Taxonomie
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Chair: Klaus Jürgens

9.15-9.30 Kage, C., Kage, M. & Foissner, W.:
A new, colpodid "flagship" (Protozoa, Ciliophora) from soil of a Green River
Bed in Botswana (Africa)

9.30-9.45 Thomas Posch & Michaela Salcher:
The critical nature of protistan test organisms: How to use the synergistic
potential of studies on "the same test organisms"?

9.45-10.00 M. Häntzsch, S.L. Schmidt, D. Bernhard, D. Ammermann & M. Schlegel:
Development of species-specific PCR-primers for the sibling species
Stylonychia mytilus and *Stylonychia lemnae* (Spirotrichea, Ciliophora)
based on IDH-sequences

10.00-10.15 S.L. Schmidt, D. Bernhard, M. Schlegel, D. Ammermann and J. Fried:
Distinguishing the sibling species *Stylonychia lemnae* and *Stylonychia
mytilus* (Spirotrichea, Ciliophora) by fluorescence in situ hybridization

- 10.15-10.30 **Manfred Wanner** and Willi E.R. Xylander:
Biodiversity development of terrestrial testate amoebae – is there any succession at all?

Kaffeepause 10.30-11.00

- 11.00-11.15 **Frank Nitsche**, Claudia Wylezich, Hartmut Arndt:
Phylogenetic and morphological studies on choanoflagellates from the Antarctic and Arctic waters
- 11.15-11.30 **Barth D.**, Krenek S., Berendonk T. U. and Fokin S. I.:
Intraspecific genetic variability in *Paramecium* (Ciliophora; Oligohymenophorea)
- 11.30-11.45 **Anke Behnke**, Hans-Werner Breiner, Victoria Alla, Thorsten Stoeck:
Diversity of eukaryotes in extremes of anoxicity: the Framvaren Fjord in Norway
- 11.45-12.00 **Gela Preisfeld**:
Molecular diversity in euglenid flagellates

Poster:

- P1** **Tobias Garstecki, Susan Brown and Johan F. de Jonckheere**:
Description of a new vahlkampfiid amoeba, based on morphological, ultrastructural and molecular characteristics
- P2** **Elke Neubacher, Mario Prast & Ulrike-G. Berninger**:
Detection of ingested nitrifying bacteria in food vacuoles of ciliates using FISH (fluorescence in situ hybridization)
- P3** **Sabine Agatha**:
Updated Key to the Genera of the Order Oligotrichida (Ciliophora, Spirotricha)
- P4** **Seung Yeo Moon-van der Staay, Georg W.M. van der Staay, Tadeusz Michalowski, Jean-Pierre Jouany, Eli Nsabimana, Didier Macheboeuf, Martina Regensbogenova, Peter Pristas, Peter Javorský, Freda M. McIntosh, Svetlana Kišidayová, Zora Varadyova, Neil R. McEwan, C. Jamie Newbold, and Johannes H.P. Hackstein**:
Diversity and evolution of gut ciliates from mammals
- P5** **Seung Yeo Moon-van der Staay, Georg W.M. van der Staay, Vesela Tzeneva, Hauke Smidt, Willem de Vos and Johannes H.P. Hackstein**:
Eukaryotic diversity in Dutch soil
- P6** **Sergey I. Nikolaev, Edward A. D. Mitchell, Nikolay B. Petrov, Cédric Berney, José Fahrni and Jan Pawlowski**:
The Testate Lobose Amoebae (Order Arcellinida Kent, 1880) Finally Find their Home within Amoebozoa

P7 Ariane Lorenz, Johannes H.P. Hackstein, Seung Yeo Moon-van der Staay, Rob de Graaf, Theo van Alen, Sylvia Ortmann und Heribert Hofer:
Molecular Diversity and Phylogeny of Rumen Ciliates

12.30 -14.00 Mittagessen

Extra-session: The concept of species
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Chair: Thorsten Stoeck

14.00-14.30 **Martin Schlegel** and Ralf Meisterfeld:
The species problem and Protist Evolution

14.30-15.00 **Wilhelm Foissner**:
Die Morphospezies: Konzepte und Probleme

15.00-15.30 **Slava Epstein, Barbara Schena, Thorsten Stoeck**:
Molecular typing of protistan species

15.30-16.00 **Caspar Franzen**:
Taxonomy of the Microsporidia: Morphology vs. Molecular Biology

16.00-16.30 *Kaffeepause*

16.30-17.00 **Michael Melkonian**: A revised species concept for microalgae

17.00-17.30 **Johannes Fried**:
Genospecies versus Morphospecies: Highlights and Pitfalls of
Fluorescence In Situ Hybridisation (FISH) with Protists

17.30-18.00 **Jens Boenigk, Antonis Chatzinotas, Gianfranco Novarino, Karin Pfandl, Tobias Garstecki**:
Application of morphological and molecular defined groups of organisms
(species) in protist ecology

Im Anschluß offene Diskussion

oder als Alternative:

Exkursion zur Kläranlage Kusel mit Führung von Marina Ettl und Brigitte Auer, VTA

19.30 Abendessen

Freitag, 4. März 2005

Genetik & Zellbiologie

Chair: Martin Simon

- 9.00-9.30 **Tiedtke, A. & Scheidgen-Kleyboldt, G.:**
Foreward and reverse genetic methods in analysis of phagosome formation in *Tetrahymena thermophila*
- 9.30-9.45 **Martin Simon, Simone Marker & Helmut Schmidt:**
Heterogenic distribution of surface-proteins and effects of mRNA abundance: *Paramecium* hesitates to change the serotype
- 9.45-10.00 **Helmut Plattner:**
Experience and progress with immuno-localization in *Paramecium* cells
- 10.00-10.15 **D. Sültemeyer, L. Morel-Arachnov, C. Gering, D. Müller:**
Low CO₂ inducible carbonic anhydrases in photosynthetic and non-photosynthetic micro organisms
- 10.15-10.30 **Brigitte Boxma, Rob M. de Graaf, Georg W.M. van der Staay, Theo A. van Alen, Guenola Ricard, Toni Gabaldón, Angela H.A.M. van Hoek, Seung Yeo Moon-van der Staay, Werner J.H. Koopman, Jaap J. van Hellemond, Aloysius G.M. Tielens, Thorsten Friedrich, Marten Veenhuis, Martijn A. Huynen and Johannes H.P. Hackstein:**
A ciliate mitochondrion that makes hydrogen
- 10.30 – 11.00 Kaffeepause
- 11.00-11.30 **Atsushi Matsuda & Jim Forney:**
Identification and analysis of genes required for DNA elimination in *Paramecium tetraurelia*
- 11.30-11.45 **Matthias Möllenbeck, Andre R. O. Cavalcanti, Franziska Jönsson, Hans J. Lipps, Grzegorz Rozenberg & Laura F. Landweber:**
Ciliate Gene Unscrambling
- 11.45-12.00 **Ilka Haferkamp, Stephan Schmitz-Esser, Nicole Linka, Claude Urbany, Astrid Collingro, Michael Wagner, Matthias Horn, H. Ekkehard Neuhaus:**
Five Nucleotide Carriers in the Symbiont UWE25 are used to exploit Host Metabolites
- 12.00-12.15 **Foissner, W., Weisse T. & Müller, H.:**
The unusual resting cyst of *Meseres corlissi* (Ciliophora, Oligotrichea)

Poster:

- P8** Rob M. de Graaf, Theo A. van Alen, Hanneke A.A. van Zoggel, Minh Bao Huynh, and Johannes H.P. Hackstein:
The mitochondrial genome of *Euplotes*
- P9** Johannes H.P. Hackstein and Nigel Yarlett:
Hydrogenosomes are not the same!
- P10** Carola Burgstorf, Theo A. van Alen, Rob M. de Graaf, Seung Yeo Moon-van der Staay, Georg W.M. van der Staay, Tadeusz Michalowski, Jean-Pierre Jouany, Eli Nsabimana, Didier Macheboeuf, Martina Regensbogenova, Peter Pristas, Peter Javorský, Freda M. McIntosh, Svetlana Kišidayová, Zora Varadyova, Neil R. McEwan, C. Jamie Newbold and Johannes H.P. Hackstein:
Rumen ciliates possess macronuclear “midi-chromosomes”
- P11** Petra Selchow & Klaus Hausmann:
Ultrastructural comparison of two strains of the marine HNF *Caecitellus* cf. *parvulus* isolated from deep-sea sediment and surface water of the South Atlantic
- P12** Martin Simon, Martin Beimbauer & Helmut J. Schmidt:
Identification of a serotype H analogue in *Paramecium primaurelia* as an RNAi-phenotype
- P13** Martin Simon, Martin Beimbauer, Gerhard Brendle, Simone Marker & Helmut J. Schmidt:
Silencing gene expression of *Paramecium* by feeding: knock down efficiency and its relation to transcriptional activity in *E.coli*
- P14** U. Bissels, M. Hartmann, A. Tiedtke:
Generation of Functional Heterokaryons of *Tetrahymena thermophila*
- P15** Broermann, A.; Hartmann, M.; Tiedtke, A.:
Generation and characterisation of mutants from *Tetrahymena thermophila* deficient in secretion of proteases

12.45 - 14.00 Mittagessen

Symbiosen/Parasitismus

Chair: Gela Preisfeld

- 14.00-14.15 **Bettina Sonntag, Monika Summerer and Ruben Sommaruga:**
Mycosporine-like amino acids (MAAs) in *Chlorella*-bearing ciliates from lake plankton.
- 14.15-14.30 **Sergei I. Fokin:**
Symbiotic system “Ciliate cell – *Chlorella*-like algae – Bacteria”.
Examples for some of green ciliates
- 14.30-14.45 **Paul H. Hoertnagl and Ruben Sommaruga:**
UVR-induced photooxidative stress in the mixotrophic ciliate
Paramecium bursaria
- 14.45-15.00 **Jörn Jeblick, Hans-Dieter Görtz & Jürgen Kusch:**
New insights in the molecular relationship between *Paramecium* and its endocytobiont *Caedibacter*
- 15.00-15.15 **Fried J., Macheboeuf D., Nsabimana E., Jouany J. P., Michalowski T., Kišidayova S., Javorsky P., Pristas P., Newbold C. J., Thomas N. A., McEwan N. R., Moon-van der Staay S. Y., van der Staay G. and Hackstein J. H. P.:**
Rumen Ciliate Movement and Morphology – Movies and Images of Species from the Rumen Ciliate Culture Collection ERCULE
- 15.15-15.30 **Caspar Franzen:**
Cell Invasion and Intracellular Fate of Microsporidia
- 15.30-15.45 **Julia Walochnik, Martina Köhler, Rolf Michel and Horst Aspöck:**
Molecular diversity within *Acanthamoeba* morphological group I

Poster Symbiosen/Parasitismus:

- P16** **Radek, Renate and Yaman, Mustafa:**
First report of the peculiar parasitic green alga *Helicosporidium* in bark beetle
- P17** **Gen Omura, Toshinobu Suzuki, Hans-Dieter Görtz:**
A morphological disturbance of *Paramecium bursaria* after an infection with the yeast, *Yarrowia lipolytica*.
- P18** **Martina Schrollhammer, Giulio Petroni, Karl-Heinz Schleifer, and Sergei I. Fokin:**
First molecular data on “*Caedibacter macronucleorum*” from *Paramecium duboscqui*

P19 Bettina Sonntag, Monika Summerer and Ruben Sommaruga:
Ciliate-ciliate parasitism in lake plankton between a suctorian and a hypotrich ciliate

P20 Thomas Müller & Jürgen Kusch:
Population dynamics of *Caedibacter* bacteria in *Paramecium*

Poster Ökologie:

P21 Yanli Lei, Karen Stumm, Stephen A. Wickham and Ulrike-G. Berninger:
Control of benthic ciliate communities and meiofauna by grazers in marine, brackish and freshwater sediments: a cross system comparison

P22 Ralph Medinger, Claude Hansen, Julia Hofer, Bettina Sonntag, Thomas Posch and Roland Psenner:
Horizontal distribution of ciliates in Piburger See (Tyrol, Austria)

P23 Isabelle Thys, Véronique Jaquet, Ralph Medinger and Henry-Michel Cauchie:
The effect of metazooplankton on protozoans during clear-water phase assessed by in situ size-fractionation experiments

P24 Karin Pfandl, Thomas Posch, Jens Boenigk:
Unexpected Effects of Prey Dimensions and Morphologies on the Size Selective Feeding by Two Bacterivorous Flagellates (*Ochromonas* sp. and *Spumella* sp.)

P25 S. Knab, T. Posch:
Recurrent bloom of filamentous bacteria induced by bacterivorous flagellates in an oligo-mesotrophic lake

P26 Annette Rother & Klaus Hausmann:
Free-swimming and aggregate-associated flagellates and ciliates in the River Spree

P27 Johannes Fried, Katharina Wulff and Norbert Schwarzenbeck:
Wastewater Treatment – Contribution of Ciliates to the Development and Structure of Aerobic Activated Sludge Granules

P28 Michaela Salcher, Bettina Sonntag, Julia Hofer, Karel Šimek, Karel Hornák, Jan Jezbera, Birgit Mindl, Birgit Sattler, Jaroslav Vrba & Thomas Posch:
Impact of flagellate grazing and nutrient availability on the taxonomic structure and activity of planktonic bacteria

P29 Weisse, T., Müller, H., Scheffel, U., Stadler, P., M. Strüder-Kypke & Foissner, W.:
Variable response to pH among three clones of *Meseres corlissi*

P30 M. Prast, E.-J. Cleven, E. Neubacher, R. Amann & U.-G. Berninger:
Do Ciliates have an impact on nitrogen transformation in a sandy riverine sediment?

Letzte Möglichkeit zur Abgabe der Stimmzettel zur Posterprämierung!!!

17.00-19.00 **Mitgliederversammlung der DGP & DGNP**, Tagungsraum

Ab 19.15 **Geselliger Abend:**

Pfälzer Büffet im Burgrestaurant,

im Anschluss Musik & Tanz im Rittersaal

mit Prämierung der besten Poster

Samstag, 5. März 2005

Ökologie

Chair: Julian Schwarz

9.00-9.15 **Jun Murase, Mathias Noll and Peter Frenzel:**
The impact of protists on activity and structure of bacterial community
in a rice field soil

9.15-9.30 **Karen Stumm, Ulrike-G. Berninger:**
Seasonal changes of a benthic microbial community in an intertidal fine
sediment

9.30-9.45 **Anja Scherwaß, Heidrun Budde und Hartmut Arndt:**
Prädation von Ciliaten auf Biofilme: Einfluss auf die dreidimensionale
Struktur

9.45-10.00 **Marlene Willkomm, Hartmut Arndt:**
Effects of flow velocity on the attachment of heterotrophic flagellates

10.00-10.15 **Christian F. Bardele:**
Reduction of primary oral ciliature in *Trimyema*, a member of the
“riboclass” Plagiopylea

10.15-10.45 *Kaffeepause*

10.45-11.00 **Müller, H., Foissner, W. & Weisse, T.:**
The role of soil in the ecology of the ciliate *Meseres corlissi*

11.00-11.15 **Gächter, E. & Weisse T.:**
Variable response to temperature among five clones of *Meseres corlissi*

11.15-11.30 **Helmut Berger:**
Monograph of the Hypotrachs (Ciliophora). Part 3. – A biodiversity study

11.30-11.45 *Verabschiedung*

12.00 *Mittagessen*

Auschecken & Abreise