

International Conference on the Molecular Biology and Biotechnology of Ciliates and Anaerobic Protozoa

in connection with the

22nd Annual meeting of the German Society for Protozoology

March 4-6 / March 6-8, 2003

Nijmegen, The Netherlands

Organizers

**Dept. Evolutionary Microbiology, University of Nijmegen, The Netherlands
Institute for General Zoology and Genetics, University of Münster, Germany
Deutsche Gesellschaft für Protozoologie (DGP)
ERCULE (www.ercule.com)**

supported by

**FEMS (Federation of European Microbiological Societies)
OECD (Organisation for Economic Co-operation and Development
KNAW (Koninklijke Nederlandse Akademie van Wetenschappen)
NWO-ALW (Nederlandse Organisatie voor Wetenschappelijk Onderzoek)
Stichting Antonie van Leeuwenhoek
Stichting Biotechnologie Nederland (SBN)
University of Nijmegen
University of Münster
CIMES**

Sponsors:

Verlag Urban und Fischer, Jena/Germany

MBI-Fermentas

Congress Venue:

Lecturehall N2

Faculty of Science (FNWI)

University of Nijmegen

Toernooiveld 1,

NL- 6525 ED Nijmegen

Program

Tuesday, 4th of March 2003

- 14:00-17:00 Registration
17:00-18:00 Reception
18:00-19:00 Dinner
19:00-20:00 Get-together/Poster hanging

20:00 Opening, Welcome-addresses

1st scientific session: Genomics and Proteomics Chair: J.H.P. Hackstein

- 20:30 H. Stunnenberg (Nijmegen): Analysis of the Plasmodium falciparum proteome by high accuracy mass spectrometry
21:15 M. Huynen (Nijmegen): Predicting pathways and analyzing their evolution in the genome era
22:30 Cultuurcafe
23:30 Bus leaving for Wolfsberg

Wednesday, 5th of March 2003

2nd scientific session: Protozoa in guts (Chairs: J. Newbold/J.-P. Jouany)

- 9:00 J.-P. Jouany (Clermont-Ferrand): Rumen ciliate protozoa: their multiple roles in the digestive tract of ruminants
9:30 J. Newbold/N. McEwan (Aberdeen): Molecular biology of rumen ciliates
10:00 J.H.P. Hackstein (Nijmegen): Biodiversity of rumen ciliates
10:15 Coffee-break
10:45 A. Ito (Japan): Infraciliary band patterns of rumen ophryoscolid ciliates
11:00 M. Strüder-Kypke (Guelph) A revised molecular phylogeny of Trichostome ciliates and their free-living Haptorian relatives

3rd scientific session: Complex (An)aerobic protozoal communities (Chair: M. Schlegel)

- 11:15 A. Brune (Konstanz): Protozoa in termite guts
11:45 T. Stoeck (Boston): Microeukaryotic diversity in the oxygen-depleted Cariaco Basin off Venezuela coast
12:00 L. Hufnagel (Rhode Island): Rhode Island Cilioprotists Micrograzer survey

12:15 Lunch/Poster session

4th scientific session: Biotechnology and molecular biology of protozoa

(chairs: A. Tiedtke/A. Preisfeld)

- 14:15 T. Kiy (Celanese, Frankfurt): Biotechnology of protozoa
14:45: C. Miceli (Camerino): Stress-induceble genes in *Euplotes* and *Tetrahymena*
15:15 Coffee-break
15:45 W-J Chang (Princeton): Searching for the origin of ciliate scrambled genes: hints from several DNA polymerase alpha genes
16:15 A. Baroin-Tourancheau (Paris): Multiple genes-molecules in hypotrichs
16:30 H. Lipps (Witten-Herdecke): The organization of the end-replication machinery in the ciliate macronucleus.
17:00 E. Meyer (Paris): RNA-mediated epigenetic programming of developmental genome rearrangements in *Paramecium*
17:30 A. Potekhin (St. Petersburg) Elektrokaryotype of the macronucleus as a basis for macronuclear genome mapping in *Paramecium*.
17:45 H. Plattner (Konstanz): Combined molecular biology and ultrastructural analysis of vesicle trafficking in *Paramecium*.

18:15 Dinner/Poster session

**20:00 Ceremony: Maupas-Medal to be awarded to E. Orias
Award speech by K. Heckmann, Münster**

5th scientific session: Genome Projects (Chair: M. Melkonian)

20:30 E. Orias (Santa Barbara): The *Tetrahymena* Genome Project
21:15 J. Cohen (Gif-sur-Yvette): The *Paramecium* Genome project
22:00 Cultuurcafe
23:30 Bus leaving for Wolfsberg

Thursday, 6th of March 2003

9:00 Welcome to the DGP: addresses by J.Hackstein/A.Tiedtke/H.D.Görtz

6th scientific session: Anaerobes (chair: H. Plattner)

9:15 M. Müller (New York): Anaerobic Protozoa: metabolic aspects
9:45 J. van Hellemond (Utrecht): The evolutionary origin of various types of mitochondria
10:00 K. Henze (Düsseldorf): Identification of a protein involved in oxidative stress protection in *Trichomonas vaginalis*.
10:15 J. Tjaden (Kaiserslautern): Hydrogenosomes evolved repeatedly
10:30 Coffee-break/Congress Photo in the Entrance Hall of the Faculty (A1)

7th scientific session: Biodiversity/Taxonomy (Chair: C. Miceli)

11:00 P. Luporini (Camerino): Euplotes: an unexplored mine of cell signalling proteins (pheromones)
11:15 W. Foissner (Salzburg): There are Protozoan Species with Restricted Geographic Distribution! Evidences from Literature and Tank Bromeliids
11:30 M. Melkonian (Cologne): Towards a molecular concept for algal phylogeny
12:00 Lunch/Postersession
13:00 Departure for the excursion to the Kröller-Müller Museum

18:00 **Conference Dinner**
Closing Ceremony for the International Congress
21:00 Farewell Party

Parallel-Session: 1st scientific DGP session

19:00 Poster presentations (Chair: Ch. Bardele)
20:00 Poster session
22:00 Party
23:30 Bus leaving for Wolfsberg

Friday, 7th of march 2003

2nd scientific DGP session: Biodiversity, Phylogeny and Identification
(Chairs: W. Foissner/H-D. Görtz)

9:00 A. Preisfeld (Bielefeld): Evolution of Euglenid Flagellates
9:30 J. Fried (Munich): FISH in the identification of protozoa
10:00 Ch. Beardsley et al. (Bremen): Detection of pelagic flagellates by FISH
10:15 Coffee-break/ Congress Photo DGP in the Entrance Hall of the Faculty (A1)
10:45 M. Strüder-Kypke (Guelph): Morphological versus molecular data: phylogeny of oligotrich ciliates inferred from SSU rRNA gene sequences.
11:00 C. Wylezich (Leipzig/Cologne): Persisting problems with the phylogeny of the Lobosa. (german with english poster)
11:15 F. Scheckenbach (Cologne): Morphology and 18 SSU rRNA phylogeny of heterotrophic nanoflagellates in the Angola Basin (german with english poster)

11:30 Ch. Bardele (Tübingen): *Aviisotricha hoazina*, a new anaerobic ciliate from the crop of the hoatzin, the cow among the birds.

11:45 Poster presentation DGP II (Chair Ch. Bardele)

12:15 Lunch/Poster session

3rd scientific DGP session: 1st Dutch-German workshop on protozoa

(Chairs: A. Tielens/W.Foissner)

14:00 W. Foissner (Salzburg) A huge diversity of novel Soil ciliates in Austrian forest stands
M. Bonkowski (Darmstadt): Protozoa and plant growth: The microbial loop in soil revisited.
R. Michel (Koblenz): Isolation of free-living amoebae from various sources harbouring pro- and eucaryotic endocytobionts
T. Weisse (Mondsee): Biodiversity of aquatic protists-what can we learn from bacteria and *Daphnia*?
A. Tielens (Utrecht): Peculiar mitochondria in parasitic protozoa
L. Stal (Yerseke): Biofilm formation by benthic diatoms and their influence on the stabilisation of intertidal mudflats
G. Herndl (Texel): Bacterial-protozoal interactions

17:00 Mitgliederversammlung DGP

18:00 Invitation for the 23rd annual meeting of the DGP to Innsbruck by B. Sonntag und T. Posch

19:00 Dinner/DGP Party; scientific movie presentations by C. and M. Kage and H.P. Klein

24:00 Bus leaving for Wolfsberg

Saturday 8th of march 2003

4th scientific DGP session: Cellbiology and Ecology (Chairs: T. Weisse/H. Plattner)

9: 00 A. Tiedtke (Münster): Genetic and Proteomic Analysis of Phagocytosis in *Tetrahymena thermophila*.

9:30 H. Berger (Salzburg): *Uroleptopsis* Kahl 1932 (Ciliophora), a valid pseudokeronopsid genus.

9:45 J. Tröger (Berlin) Licht- und rasterelektronenmikroskopische Untersuchungen zur Morphogenese von *Didinium cf. nasutum*

10:00 H. Müller (Konstanz): The polymorphic cycle of the freshwater ciliate *Pelagostrombidium* sp.

10:15 Coffee break/poster session

10:45 J. Boenigk (Mondsee): Assessing the variability in aquatic microbial populations: facts and fiction

11:00 T. Posch (Innsbruck): Succession of bacterial grazing-protection mechanisms in a continuous cultivation system under varying trophic status

11:15 B. Auer (Bremerhaven): The impact of heterotrophic flagellates and ciliates on phytoplankton aggregates

11:30 K. Stumm (Bremerhaven): Investigation on the diversity and function of benthic protists in the microbial food web

11:45 J. Schwarz (Marburg): Role of methanogenic symbionts of *Metopus spec.* for early methane production in a flooded rice field soil.

12:00 Closing

12:15 Lunch

Departure: Busses to Nijmegen Central Station/ Kleve Bahnhof