

**Monday 17.02.2003**

**Morning Session:**

**Determination of viral, bacterial and protozoan abundance and biomass**

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- 8<sup>30</sup> OPENING**  
Thomas Weisse
- 9<sup>00</sup> Bacterial Telecommunities and Environmental Grain**  
Kemp Paul F.
- 9<sup>25</sup> Comparison of methods for estimating viral production, virus-induced mortality and prophage induction in bacterioplankton**  
Weinbauer Markus, Bonilla-Findji O., Rochelle-Newall E., Winter C. & Gattuso J-P.
- 9<sup>50</sup> Counting and sizing planktonic bacteria by microscopy, image analysis and flow cytometry**  
Sieracki Michael E. & Their E.
- 10<sup>15</sup> DISCUSSION**
- 10<sup>30</sup> COFFEE BREAK**
- 11<sup>00</sup> One bacterium per ml? Detection limits in aquatic microbiology**  
Psenner Roland, Dieser M. & Sattler B.
- 11<sup>25</sup> Assessing the abundance, biomass and community structure of planktonic protists: what do we really know?**  
Caron David A.
- 11<sup>50</sup> Fast data – fast insights?**  
Andreatta Stefan, Hofer J., Wallinger M., Posch T. & Psenner R.
- 12<sup>15</sup> The mystery of HNF counts: A cross-system comparison of direct, indirect and fixed counts of heterotrophic nanofauna (POSTER)**  
Arndt Hartmut, Wirth O., Scherwass A., Bergfeld T., Auer B., Dietrich D., Hausmann K. & Weitere M.
- How much is plentiful? Counting bacteria and viruses with conventional epifluorescence and confocal laser scanning microscopy (POSTER)**  
Agis Martin, Luef B. & Peduzzi P.
- 12<sup>25</sup> DISCUSSION**
- 12<sup>45</sup> ORGANISATION & LUNCH BREAK**
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**Monday 17.02.2003**

**Afternoon Session:**

**Determination of bacterial biomass and activity**

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- 14<sup>30</sup> On the dangers and delights of using allometric relationships for protist plankton**  
Menden-Deuer Susanne
- 14<sup>55</sup> Allometric and linear volume-to-element (carbon, nitrogen, phosphorous) conversion factors applied for natural bacteria**  
Posch Thomas & Pernthaler J.
- 15<sup>20</sup> DISCUSSION**
- 16<sup>35</sup> Using Micro-FISH to assess single-cell microbial activity in aquatic environments**  
Kirchman David L.
- 17<sup>00</sup> COFFEE BREAK**
- 17<sup>30</sup> The role of dominant groups in functioning of marine microbial communities**  
Zubkov Mikhail V.
- 17<sup>55</sup> The conversion between leucine incorporation and bacterial biomass production, problems and patterns across aquatic systems**  
Gasol Josep M.
- 18<sup>20</sup> The measurement of bacterioplankton respiration and growth efficiency: problems and patterns across aquatic systems**  
del Giorgio Paul A.
- 18<sup>45</sup> DISCUSSION**
- 19<sup>00</sup> END OF SESSION**
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**Tuesday 18.02.2003**

**Morning Session:  
Bacterial-protozoan interactions: Feeding**

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- 8<sup>30</sup> The quest for the perfect grazing-measurement technique: The Never-ending story**  
Vaqué Dolors
- 8<sup>55</sup> Protozoan grazing activity and its specific impacts on bacterial and viral dynamics**  
Šimek Karel, Hornák K., Mašín M., Macek M., Nedoma J., Dolan J.R., Weinbauer M., Pernthaler J. & Posch T.
- 9<sup>20</sup> Natural and artificial variability in feeding rates: Methodological limitations of tracer particles**  
Boenigk Jens
- 9<sup>45</sup> DISCUSSION**
- 10<sup>00</sup> COFFEE BREAK**
- 10<sup>30</sup> Protozoan grazing rates on surface-associated bacteria**  
Parry Jackie
- 10<sup>55</sup> Another look at the dilution technique: Working with analytical uncertainties and multiple constraints**  
Landry Michael R.
- 11<sup>20</sup> Unexpected effects of turbulence on a bacterivore**  
Dolan John R., Sall N., Metcalfe A. & Gasser B.
- 11<sup>45</sup> DISCUSSION**
- 12<sup>15</sup> POSTERS**  
**Detection and localisation of phosphatase activity in natural phytoplankton using ELF and image cytometry: a novel method versus a common fluorometric assay**  
Nedoma Jiri, Strojsova A., Komarkova J., Vrba J., Znachor P.
- 12<sup>30</sup> ORGANISATION**
- 12<sup>45</sup> LUNCH BREAK**
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**Tuesday 18.02.2003**

**Afternoon Session:  
Cultivation / Impact of UV radiation**

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- 14<sup>30</sup> How to isolate und cultivate abundant ‘uncultivable’ heterotrophic bacteria**  
Hahn Martin
- 14<sup>55</sup> Rapid establishment of clonal picoplankton cultures by single-cell sorting (POSTER)**  
Crosbie Nick, Pöckl M & Weisse T
- 15<sup>00</sup> Effects of solar UV radiation on microbial processes: a methodological issue?**  
Sommaruga Ruben
- 15<sup>25</sup> UV radiation and its potential impact on bacterial activity measurements: is there a need to care about it?**  
Herndl Gerhard J.
- 15<sup>50</sup> DISCUSSION**
- 16<sup>10</sup> The idea of working groups – Presentation of topics**  
Boenigk Jens
- 16<sup>30</sup> WORKING GROUPS**
- 19<sup>00</sup> END OF SESSION**
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**Wednesday 19.02.2003**

**Morning Session:  
Flow Cytometry / Protistan Physiology**

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- 8<sup>30</sup>**     **Recent developments in the field of microbial ecology and perspectives**  
Lebaron Philippe
- 8<sup>55</sup>**     **The benefit of flow cytometric sorting - linking structure with function**  
Fuchs Bernhard M., Zubkov M., Burkill P. & Amann R.
- 9<sup>20</sup>**     **The New BD LSR II Flow Cytometer:  
4 Lasers, 10 Colors, Fiber Optics, Digital Electronics**  
Joachim Brenner (BD Biosciences, Europe)
- 9<sup>45</sup>**     **DISCUSSION**
- 10<sup>00</sup>**    **COFFEE BREAK**
- 10<sup>30</sup>**    **Determining parameters of the numerical response**  
Montagnes David J. S. & Berges John A.
- 10<sup>55</sup>**    **Variability in the temperature-growth responses of protists**  
Lessard Evelyn J.
- 11<sup>20</sup>**    **One species – one ecophysiological response?**  
Weisse Thomas
- 11<sup>45</sup>**    **DISCUSSION**
- 12<sup>00</sup>**    **WORKING GROUP REPORTS – DISCUSSION**
- 12<sup>45</sup>**    **LUNCH BREAK**
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**Wednesday 19.02.2003**

**Afternoon Session:  
Bacterial and protistan taxonomy**

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- 14<sup>30</sup> Importance of precise species identification in ecological studies of ciliates (Protozoa, Ciliophora)**  
Foissner Wilhelm
- 14<sup>55</sup> Molecular identification of aquatic microbes at the end of the biodiversity hype**  
Pernthaler Jakob
- 15<sup>20</sup> COFFEE BREAK**
- 15<sup>45</sup> An empirical perspective on the use of PCR to estimate phylogenetic composition of microbial assemblages**  
Massana Ramon
- 16<sup>10</sup> Molecular methods for linking bacterial community structure with ecophysiology**  
Wagner Michael
- 16<sup>35</sup> DISCUSSION**
- 17<sup>00</sup> WORKING GROUPS**
- 19<sup>00</sup> END OF SESSION**
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**Thursday 20.02.2003**

**Morning Session:  
Natural variability / Comparative analyses**

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- 8<sup>30</sup> Organic aggregates in pelagic and shallow environments – physical and chemical characteristics and implications for their bacterial colonization and decomposition**  
Simon Meinhard
- 8<sup>55</sup> Microbial dynamics on marine snow: inter- and intra-specific interactions among particle colonizing bacteria**  
Grossart Hans-Peter, Kjørboe T., Tang K. & Ploug H.
- 9<sup>20</sup> Bacterial behavior and interactions in an organic matter continuum in the sea**  
Azam Farooq
- 9<sup>45</sup> How to measure the impact of higher trophic levels on the microbial food web? A combination of methods applied to an antarctic food web (POSTER)**  
Wickham Steven A, Berninger U-G
- 9<sup>50</sup> DISCUSSION**
- 10<sup>10</sup> COFFEE BREAK**
- 10<sup>40</sup> WORKING GROUP REPORTS**
- 11<sup>00</sup> DISCUSSION**
- 11<sup>30</sup> Similarities and differences between pelagic and benthic microbial communities**  
Güde Hans, Sala M. & Witthöft-Mühlmann A.
- 11<sup>55</sup> Construction of flow networks of microbial food webs**  
Vadstein Olav & Andersen T.
- 12<sup>20</sup> Understanding element flows through microbial food webs from idealized models: Facts or fiction?**  
Thingstad T. Frede
- 12<sup>45</sup> DISCUSSION**
- 13<sup>00</sup> LUNCH BREAK**
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**Thursday 20.02.2003**

**Afternoon Session:  
Natural variability / Comparative analyses**

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- 14<sup>30</sup> The uses of comparative analysis to study microbial ecosystems**  
Pedrós-Alió Carlos
- 14<sup>55</sup> High resistance of a planktonic ciliate community to external forcing (climate, nutrients, prey and predator densities in a large, deep lake (Lake Constance))**  
Gaedke Ursula & Wickham S.
- 15<sup>20</sup> Diel changes of heterotrophic bacterial numbers and production in stable and extremely dynamic environments: implications for models on ecosystem functioning (POSTER)**  
Kirschner Alex, Zechmeister TC, Teubner K, Häse C, Dokulil M & Farnleitner AH
- 15<sup>25</sup> COFFEE BREAK**
- 15<sup>50</sup> The importance of heterogeneity in biotic interactions: what microbial ecologists can learn from metazoan community ecology and vice versa**  
Jürgens Klaus
- 16<sup>15</sup> DISCUSSION**
- 16<sup>30</sup> GENERAL DISCUSSION**
- 18<sup>00</sup> END OF WORKSHOP**
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