

4th ANNUAL MEETING of the ECOGENOMICS RESEARCH PROGRAM

Assessing the living soil

**16 - 17 April 2007
KNAW, Trippenhuis,
Kloveniersburgwal 29, Amsterdam**

**15 April 2007 afternoon
(Business meeting, SAB)
(coordinators and WP leaders only)**

REGISTRATION: Dita Smit, BioDetection Systems BV, Kruislaan 406, 1098 SM Amsterdam
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Deadline: 30 March 2008

COSTS: € 100,-- Excl. VAT (including lunches). Invoice will be sent to you after registration.

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16 - 17 April 2008, Trippenhuis, Kloveniersburgwal 29, Amsterdam

Wednesday 16 April 2008

9.00 Welcome with coffee and tea

Chairman: Nico van Straalen (VU Amsterdam)

9.30 Bram Brouwer (BDS, VU, Coordinator Ecogenomics Consortium) Welcome

Research Area III: Bioinformatics, Technology, Valorisation & Societal Aspects

9.40 Bart van Houte: Bioinformatic analysis of microarray data: towards ecogenome informatics

10.00 Maria Tobor-Kaplon: What controls process rates in ecosystems?

10.20 Roy Kloet: Crossing Borders

10.40 **Tea/coffee**

Chairman: Hans van Veen (NIOO-KNAW)

Research Area I: Health of Soil-Plant Systems: detection and disease suppression

11.20 Anna Kielak: Analysis of soil-borne Acidobacterial genome fragments via a metagenomic approach

11.40 Ilya Senechkin: Proposed role of oligotrophs in soil health

12.00 Ulisses Nunes da Rocha: Recovery of uncultured species from the leek rhizosphere

12.20 **Lunch**

Chairman: Jos Raaijmakers (WU Wageningen)

Research Area I: Health of Soil-Plant Systems - continued

13.30 Eiko E. Kuramae: Genomic analysis of microbial community structure of Dutch soil samples with respect to specific vegetation regimes and soil type

13.50 Julia Rieckmann: Microbial diversity in relation to sustainable agriculture

14.10 Marco Kruijt: Identification and functional analysis of beneficial bacteria from diverse soils

14.30 Ronald van Doorn: Multiplex pathogen detection using circularizable probes

14.50 **Tea / Coffee**

15.30 Wietse de Boer: Genomic analysis of the soil bacterium *Collimonas fungivorans*: exploration, interpretation, and valorization

15.50 Hannes Gamper: Ecogenomics on arbuscular mycorrhizal fungi -dreams, reality & pragmatism

16.10 Closure day 1

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Thursday 17 April 2008

8.30 Welcome with coffee and tea

Chairman: Bart van der Burg (BDS Amsterdam)

Research Area II: Pollution Detection & Soil Remediation – continued

- 9.00 Farai Maphosa Chasing Halorespirers: Mutlplex detection of dechlorinating bacteria using padlock probes
- 9.20 Thomas Kruse The role of mobile elements in microbial adaptation to pollution
- 9.40 Wilfred Röling Degradation of mono-aromatic pollutants in the subsurface
- 10.00 Juliette Legler: Identification of novel contaminants in soil with effect-directed analysis
- 10.20 **Tea/coffee**

- 11.00 Keynote speaker: Rens Voesenek (Utrecht University)
- 11:40 Bart Pieterse Transcription profile based predictions
- 12.00 Edwin Sonneveld Assay development genotoxicity
- 12.20 Basten Snoek Genetic architecture of life-history variation
- 12.40 **Lunch**

Chairman: Hauke Smidt (WU Wageningen)

Research Area II: Pollution Detection & Soil Remediation

- 13.30 Keynote speaker: Jan-Roelof van der Meer (University of Lausanne, Switzerland)
- 14.10 Ana Vinuela Towards global gene transcription profiling in natural populations of *C. elegans*
- 14.30 Tjalf de Boer Factors confounding gene expression-based soil quality testing.
- 14.50 Muriel de Boer Application of realtime RT-PCR to develop new biomarkers for soil quality assessment
- 15.10 **Tea / Coffee**

- 15.50 Martijn Timmermans Sugar sweet springtails: on the molecular mechanism of drought tolerance in a soil arthropod
- 16.10 Dick Roelofs: Valorisation aspects of the invertebrate Soil Quality Chip.
- 16.30 Thijs van Boxtel: Profiling embryotoxic expression patterns in zebrafish cells
- 16.50 Bram Brouwer: closing statements

- 17.00 – ...: **Drinks and Snacks**

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15 April 2008

Trippenhuis, Kloveniersburgwal 29, Amsterdam

Tuesday 15, Business Meeting, from 13.00 hr

for Scientific Advisory Board – Utilisation Committee – Theme coordinators – WP-leaders only

Chairman: Sietze Keuning (Bioclear, Groningen)

- A. Presentation of alternative structure Ecogenomics on the basis of the Science Review:**
Bram Brouwer

- B. The Ecogenomics Programme – Evaluation and Perspectives**
 - **Research Area I** – overview, integration WPs, plans, valorisation aspects
Discussion: Hans van Veen and Jos Raaijmakers
 - **Research Area II** – overview, integration WPs, plans, valorisation aspects
Discussion: Hauke Smidt and Bart van der Burg
 - **Research Area III** – overview, integration WPs, plans, valorisation aspects
Discussion: Nico van Straalen and Bram Brouwer

- C. Evaluation science progress by Scientific Advisory Board**
Dick van Elsas

- D. Evaluation Valorisation aspects**
Marcel Wubbolts