Annual Event 2013
Istanbul (Turkey)
13-14 March 2013

Architecture & Knowledge:
Inspiration & Imagination
WP2: PhD curriculum development

Presented by Peter Bossier
Need for novel PhD courses

AquaTNET

Supply of novel PhD courses
Workpackage 2: identified courses (D2.2)

1) One course “Microbial management in aquaculture” (running in Aug 2012)
   Ugent: candidate organiser

2) Course: “Aquaculture and the environment” with the identified topics (5 days course)
   SAMS: candidate organiser

3) Course: optimisation in aquaculture management
   Karadenis Tech Univ, Stirling (possible organiser)

4) Course: immunology /immunopathology
5) Course: parasitology/disease
6) Course: algae in aquaculture
D2.3

Aug 2012
PhD course on Microbial communities

PhD course. Microbial Community Management in Aquaculture: 20-22 August 2012 (2 ECTS)

Day 1 Morning: Introduction and host responses
  8.00-8.30: Registration at Lab of Aquaculture & Artemia Reference Center (Rozier 44)
  8.30-9.15: Breakfast at university restaurant ‘De Brug’.
9.15-10.00: Role of microbial communities in aquaculture: Olav Vadstein
10.00-10.45: General host responses: Peter Bossier
10.45-11.15: Coffee Break + Poster viewing
11.15-12.00: Immunological host responses: Stefanie Lagae and Daisy van Rompay
12.00-12.45: Gnotobiotic models: Peter De Schryver
12.45-14.00: Lunch Break at university restaurant ‘De Brug’.

XXX: Dinner at university restaurant ‘De Brug’
PhD course on Microbial communities

Day 1 Afternoon: Data generation and processing: generation
Generating Microbial community data: methods
  14.00-14.45: DGGE, T-RFLP, clone libraries: Nico Boon
  14.45-15.30: Pyrosequencing: Filip Van Nieuwerburgh (NXTGNT)
15.30-16.00: Coffee Break + Poster viewing
Generating host response data:
  16.00-16.45: cDNA-AFLP, microarray: Frank Van Breusegem
student session:
  16.45-17.45: 3 presentations of 15 min. + 5 min. interaction
    Description of Microbial Communities
    Use of gnotobiotic models
    Studies on innate immunity
PhD course on Microbial communities

Day 2: Data generation and processing: processing
9.00-11.00: Bionumerics: data processing (how much of statistical analysis and visualization: ask Applied Maths)
11.00-11.30: Coffee Break + Poster viewing
11.30-12.30: Bionumerics: data processing (continued)
12.30-14.00: Lunch Break at student restaurant
14.00-15.30: Bionumerics: data processing: Practical exercise in computer room
15.30-16.00: Coffee Break + Poster viewing
16.00-17.30: Bionumerics: data processing: Practical exercise in computer room
19.30: Meeting at the entrance of the university (Plateaustraat)
20.00: Group dinner: Restaurant: De Gekroonde Hoofden (Choice of spare ribs, beef steak or salads)
PhD course on Microbial communities

Day 3 Afternoon: application of microbial community management in the field
13.30-14.00: XX : Alain Lebreton
14.00-14.30: Fish feed additives, practical applications: Rocio Robles
14.30-15.00: Industrial application of probiotics and compounds: Patrick Lavens
15.00-15.30: Biological nitrogen removal in aquaculture systems: Kim Windey
15.30-16.00: Coffee Break + Poster viewing
16.00-17.00: Phd student session (3 presentations of 15 min. + 5 min. interaction)
   - Studies on nutritional aspects
   - Micro-organism interaction with effects towards the host
   - Studies on Microbial Community reduction
17.00: Closing reception + removal of posters
XXX: Dinner in university restaurant ‘De Brug’
PhD course on Microbial communities

Course elements

• Classical courses
• Micro-teaching: peer to peer
• Pre-course ppt preparation in small student groups
• ICT tools: theory and hands on
• Industrial perspective
• European perspective: students (30) and teachers (12)
PhD course elements

Course elements

• From focus to multidisciplinarity
• Student course preparation: literature updates
• Case study: critical assessment of real situations
• Peer to peer presentations
• Involve different universities/lectures with different disciplines
• Multidisciplinarity: how is innovation brought to practice
Contact us

Thank you for your attention

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