



MICROBIAL COMMUNITIES: STRUCTURE AND INTERACTIONS WITH OTHER PELAGIC AND BENTHIC COMPONENTS OF THE COASTAL WESTERN ANTARCTIC ENVIRONMENTS

PARTICIPANTS

Walter Mac Cormack (*IAA, Argentina*)
Irene Schloss (*IAA, Argentina*)
Bernd Krock (*AWI, Germany*)
Anita Buma (*Rijksuniversiteit Groningen, The Netherlands*)
Gastón Almandoz (*CONICET, Argentina*)
Ulrike Braeckman (*Universiteit Gent, Belgium*)
Gabriela Campana (*IAA, Argentina*)
Dolores Deregibus (*IAA, Argentina*)
Marleen de Troch (*Universiteit Gent, Belgium*)
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Elisabeth Helmke (*Guest Scientist at AWI, Germany*)
Edgardo Hernández (*IAA, Argentina*)
Marcelo Hernando (*CNEA, Argentina*)
Tomás Marina (*Universidad de Gral. Sarmiento, Argentina*)
Martha Martorell (*CONICET, Argentina*)
Fernando Momo (*Universidad de Gral. Sarmiento, Argentina*)
Cecilia Quiroga (*CONICET, Argentina*)
Leonardo Saravia (*Universidad de Gral. Sarmiento, Argentina*)
Nicole Trefault (*Universidad Mayor de Santiago de Chile, Chile*)
Susana Vázquez (*CONICET, Argentina*)

Day 1 – December 17th, 2015

Palacio San Martín, Arenales 761, C.A.B.A. - Room Bordeaux

Oral presentations:

9:00 - 9:20 h

The role of marine biotoxins as chemotaxonomic markers for specific planktonic groups in Antarctica.

Bernd Krock (WP2) (AWI, Germany); Nicole Trefault (WP2) (Univ. Mayor de Santiago de Chile, Chile)

9:20 - 9:40 h

Combined effects of high temperature and low salinity on plankton coastal Antarctic assemblages. Physiology and metabolic responses under stress.

Marcelo Hernando (WP2) (CNEA, Argentina)

9:40 - 10:00 h

Phytoplankton in Potter Cove: diversity, blooms and experimental observations from a microscopic point of view.

Gastón Almandoz (WP2) (CONICET, Argentina)

10:00 - 10:20 h

Fatty acids as biomarkers: a functional toolbox to interlink the small and the smallest.

Marleen De Troch (WP4) (Universiteit Gent, Belgium) **VIA SKYPE**

10:20 - 10:40 h

Biogeochemistry in Antarctic benthic communities influenced by glacier retreat.

Ulrike Braeckman (WP4) (Universiteit Gent, Belgium) **VIA SKYPE**

10:40 - 11:10 h: Coffee break

11:10 – 11:30 h

The role of microbial communities in Antarctic food webs of coastal ecosystems in relation to global climate change.

Julieta Antacli (WP2) (CONICET, Argentina) [Presented by: Irene Schloss (WP2) (IAA, Argentina)]

11:30 – 11:50 h

Modeling phytoplankton dynamics under climate change and HC contamination in a coastal Antarctic environments

Irene Schloss (WP2) (IAA, Argentina)

11:50 – 12:10 h

Phytoplankton and bacterioplankton dynamics in Potter Cove and Ryder Bay: work in progress at RUG.

Anita Buma (WP3) (Rijksuniversiteit Groningen, The Netherlands)

12:10 -12:30 h

Temporal and spatial structure of archaeoplankton and bacterioplankton in Potter Cove.

Edgardo Hernández (WP3) (IAA, Argentina)

12:30 - 12:50 h

What is the role of the marine benthic algae on the carbon cycle of Potter Cove?

Gabriela Campana (WP4) (IAA, Argentina)

12:50 - 14:50 h: Lunch (cold buffet, included)

15:00 - 15:20 h

Evaluation of anthropogenic impact on Potter Cove sediments and some studies focused on the optimization of hydrocarbon contaminated soils bioremediation.

Walter Mac Cormack (WP3) (IAA, Argentina)

15:20 - 15:40 h

Response of bacterial communities to diesel spills at Carlini Station (Antarctica).

Susana Vázquez (WP3) (CONICET, Argentina)

15:40 - 16:00 h

Yeast and filamentous fungi from Potter Cove, identification and enzymes production.

Martha Martorell (WP3) (CONICET, Argentina)

16:00 - 16:20 h

Microbial communities and presence of some genes of interest in the marine sediment of Potter Cove.

José Luis López (WP3) (UBA, Argentina) [Presented by: Walter Mac Cormack (WP3) (IAA, Argentina)]

16:20 - 16:40 h

Identification of novel bacterial group II introns in marine metagenomes.

Cecilia Quiroga (WP3) (CONICET, Argentina)

16:40 - 17:00 h

Strategies for mathematical modeling: some examples.

Fernando Momo (WP6) (Universidad de Gral. Sarmiento, Argentina); Tomás Marina (WP6) (Universidad de Gral. Sarmiento, Argentina)

17:00 – 17:20 h

Models as an experiment: an example with phyto-zooplankton.

Leonardo Saravia (WP6) (Universidad de Gral. Sarmiento, Argentina); Santiago Doyle (WP6) (Universidad de Gral. Sarmiento, Argentina)

Day 2 – December 18th, 2015

Instituto Antártico Argentino, Campus Miguelete, Universidad Nacional de San Martín

9:15 – 10:30 h

Round of reading and discussion of the notes taken the day before, in order to share and bring together the ideas of all participants.

10:30 – 10:45 h: Coffee break

10:45 – 12:30 h

Round of discussion in sub-groups, according to the different interests of the participants and new potential collaborations. (*Session I*)

12:30 - 14:00 h: Lunch (not included)

14:00 – 15:30 h

Round of discussion in sub-groups, according to the different interests of the participants and new potential collaborations. (*Session II*)

15:30 – 17:00 h

Presentation of the results of each sub-group and final round of discussion.