

Ruth Anderson

PERSONAL DETAILS

Nationality: British

Date of birth: 20.08.1984

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EDUCATION

PhD IN BIOLOGY, 2008 – 2012 (expected graduation date). Leibniz Institute for Baltic Sea Research (IOW), Rostock, Germany

Topic: Protist distribution, biodiversity and ecologic role in Baltic Sea pelagic redoxclines. Supervisor: Prof. Dr. Klaus Jürgens

LICENCIATURE IN BIOLOGY (equivalent to BSc + MSc). 2002-2007. University of the Basque Country (UPV), Bilbao, Spain.

Graduated first of class

XI introductory course to microbiological investigation. 2007. Spanish Microbiology Society (SEM), Galicia, Spain.

PROFESSIONAL WORK EXPERIENCE

RESEARCH ASSISTANT. 2007. University of New South Wales, Sydney, Australia.

Topic: Vulnerability of carbon starved bacteria to protist grazers. Collaborators: Prof. Dr. K. Jürgens, Prof. Dr. S. Kjelleberg and Dr. D. McDougald

UNDERGRADUATE RESEARCH ASSISTANT. 2004 – 2007. University of the Basque Country, Bilbao, Spain.

Active member of the line of investigation: “Microbial Ecology in Aquatic Systems”, centred on the topic: Chemical cues employed by protist grazers to detect their

bacterial prey. Collaborators: Prof. Dr. J. Iriberry, Dr. B. Ayo and A. Txakartegi.
Additionally, I was responsible for the maintenance of the protist culture collection.

FIELD CAMPAIGNS

R. V. Alkor (2011) – Central Baltic Sea. Assisted in the preparation of the sampling campaign.

R. V. M.S.Merian (2009) – Central Baltic Sea.

R. V. Poseidon (2008) – Central Baltic Sea

TEACHING ASSISTANT; 2008 – 2010. University of Rostock, Rostock, Germany.

Teaching assistant in the Microbiology Practical Course conducted at the Leibniz Institute for Baltic Sea Research. I was responsible for the introduction to protist fixation, sample handling and enumeration techniques, and to principles of microscopy (epifluorescence and inverted)

SAME 12 ORGANIZATION. Collaborated in the preparation of the 12th Symposium on Aquatic Microbial Ecology in Warnemünde, Germany.

SKILLS

Microscopy techniques: epifluorescence and inverted microscopy. 2007 - present: responsible for epifluorescence microscope upkeep and maintenance (AxioImager M1, Axioskop 2 mot plus, AxioStar plus) at the Leibniz Institute for Baltic Sea Research.

Methods to detect protist grazing: Application of tracer and community manipulation techniques under aerobic and anaerobic conditions.

Methods to detect selective-predatory response: multi-option tests employing t-mazes and multipipettes, high-resolution video microscopy.

Cultivation: Aerobic and anaerobic cultivation of freshwater and marine protists and bacteria. Long term maintenance of culture collections.

Molecular techniques: FISH, CARD-FISH, PCR, DNA and RNA extraction.

High pressure liquid chromatography (HPLC)

Computer skills: Habitual user of Macintosh and PC systems. Statistics programmes (Statview, SPSS), graph programmes (Grafer, SigmaPlot), digital image analysis (CellP, analySIS and others).

Language skills: Bilingual Spanish / English; advanced German level; basic knowledge of Basque.

PUBLICATIONS AND MANUSCRIPTS

Species-specific patterns in the vulnerability of carbon starved bacteria to protist grazing. **R.**

Anderson, S. Kjelleberg, D. McDougald and K. Jürgens (submitted)

Protist abundance, diversity and bacterivory in hypoxic waters of the central Baltic Sea. **R.**

Anderson, A. Mylnikov, W. Foissner and K. Jürgens (in preparation)

POSTERS AND PRESENTATIONS

2011: *Protist diversity, distribution and bacterivory in Baltic Sea pelagic redoxclines.* **R.**

Anderson, F. Weber, C. Wylezich, W. Foissner, A. Mylnikov and K. Jürgens. Oral presentation, 2011 Aquatic Sciences Meeting (ASLO), San Juan, Puerto Rico.

2010: *Protist bacterivory in two Baltic Sea pelagic redoxclines: a first view of a complex system.*

R. Anderson, F. Weber and K. Jürgens. Poster. 29th Annual Meeting of the German Society for Protozoology, Düsseldorf, Germany.

2009: *Are carbon starved bacteria more resistant to protist predation?* **R. Anderson**, D. Mc

Dougald, S. Kjelleberg and K. Jürgens. Oral presentation. 11th Symposium on Aquatic Microbial Ecology (SAME), 2009, Piran, Slovenia.

2009: *Baltic Sea Redoxclines: a unique Model System for linking in situ and in vivo studies.* C.

Bruckner, M. Labrenz, G. Jost, T. Schott, C. Wylezich, **R. Anderson**, J. Feike, S. Glaubitz, J. Grote, F. Weber and K. Jürgens. Poster. Gordon Research Conference on Applied and Environmental Microbiology. South Hadley, MA, USA

2009: *Protists in Baltic Sea Pelagic Redoxclines.* F. Weber, **R. Anderson**, C. Wylezich and K.

Jürgens. Poster. 28th Annual Meeting of the German Society for Protozoology, Naumburg, Germany

2008: *Differential resistance to flagellate predation of two Vibrio species subjected to carbon*

starvation. **R. Anderson**, D. McDougald, S. Kjelleberg and K. Jürgens. Poster. 27th Annual Meeting of the German Society for Protozoology, Warnemünde, Germany.

2008: *Chemosensory responses of bacterivorous protists to chemicals of bacterial origin.* B.

Ayo, A. Txakartegi, Z. Baña, **Anderson R.**, I. Artolozaga and J. Iriberry. Poster. Gordon Research Conference on Marine Microbes, Lucca, Italy.

2007: *Discrimination among bacterial chemicals by protists or how to succeed in reaching better*

prey. B. Ayo, A. Txakartegi, Z. Baña, **R. Anderson**, I. Artolozaga and J. Iriberry. Poster. X Symposium on Aquatic Microbial Ecology (SAME), Algarve, Portugal.

2005: *Respuesta quimiosensorial de protozoos bacterívoros frente a aminoácidos procedentes de la interacción protista-bacteria* (Chemosensory response of bacterivorous protozoa to amino acids originating from bacteria-protist interactions). A. Txakartegi, B. Ayo, **R. Anderson**, I. Artolozaga, and J. Iriberry. Poster. XX Spanish National Congress of Microbiology, Cáceres, Spain

PROFESSIONAL MEMBERSHIPS

American Society of Limnology and Oceanography (ASLO)

German Society for Protozoology (DGP)

AWARDS AND GRANTS

GRANT FOR THE FORMATION OF INVESTIGATION PERSONNEL. Basque Government, Spain, 2008 – present. Grant awarded by competition to students of the University of the Basque Government for the realization of their doctoral studies.

INVESTIGATION COLLABORATION AWARD: Basque Government, Spain, 2006 – 2007. Grant awarded for excellence to undergraduates collaborating in the research of the laboratories of the University of the Basque Country.

VIUDA DE EPALZA AWARD. Bilbao Council, Spain, 2001 – 2007. Grant awarded for academic excellence to high school students. Duration: till the finalization of their university studies.

OTHER WORK EXPERIENCE

English teacher for both professionals and children. 2002-2007

Assistant at the archaeological dig in the castle of Puerto Lumbreras, Murcia, Spain. August 2005