

CURRICULUM VITAE: CHRISTIAN SONNE

PERSONAL INFORMATION:

Date of birth: 4th of May, 1972

Position: Professor
Academic titles: DVM, PhD, DScVetMed (dr.med.vet.), Dipl. ECZM (Wildlife Population Health)
Workplace: Aarhus University
Faculty of Science and Technology
Department of Bioscience
Frederiksborgvej 399
P.O. Box 358
DK-4000 Roskilde
Denmark
Telephone: +4530783172
E-mail: cs@bios.au.dk



Kap Tobin, North East Greenland.
March 2012.

EDUCATIONS AND DEGREES:

- 2013-ong. Diplomate of the European College of Zoological Medicine (Wildlife Population Health).
2011 DScVetMed (dr.med.vet). Dissertation entitled "Health effects from long-range transported contaminants in Arctic top predators: An integrated review based on studies of polar bears and relevant model species". Defended at the Faculty of Life Sciences, University of Copenhagen, Denmark on October 14 2011.
2001-2004 PhD. Thesis entitled "Organohalogen concentrations and a gross and histologic assessment of multiple organ systems in East Greenland polar bears, *Ursus maritimus*". Defended at The Royal Veterinary and Agricultural University, Copenhagen, Denmark on September 17 2004. Supervisor: Associate Professor DVM, PhD Vibeke Dantzer, University of Copenhagen, Denmark.
1991-1999 DVM. Thesis entitled "Cadmium toxicity to ringed seals, *Phoca hispida*". Defended at The Royal Veterinary and Agricultural University, Copenhagen, Denmark March 1 1999.
1988-1992 High School. Frederikssund. Math, biology and sports.

KEY INTERESTS AND QUALIFICATIONS:

I have since 1997 specialized myself in the cross field of biological effects from exposure to environmental chemicals, diseases and climate change. I'm working with a broad range of animals including predatory mammals, raptorial birds, sea birds, fish and partly Humans. I have a broad insight and interest in internal and reproductive organs (histopathology, size, and morphology), skeletal system (bone density and morphology using e.g. DXA scanning), immune system (intra dermal and in vitro testing of lymphocyte functioning, immune globulin production and cytokine and APP expressions), endocrine system (steroid and peptide hormones), PBPK modelling, blood biochemistry and infectious diseases (zoonosis). I use my global network to obtain interdisciplinary research results. Since 2015, I have applied my in-depth knowledge and understanding of biological processes including specific wildlife issues in Denmark (eider duck population declines) and health of raptors. Recently my innovative approaches have led among others to the first interactions with private industry focusing on translational medicine. Additionally specialised in surgical field implantations of intra-coelomic (abdominally) and subcutaneously satellite transmitters (PTTs) in various sea bird species and immobilization of deer spp.

PRESENT AND FORMER POSITIONS:

- 2014-ong. Professor at Department of Bioscience, Faculty of Science and Technology, Aarhus University, Denmark. Responsible for Veterinary Ecotoxicology and Wildlife Medicine.
2014-ong. Member of the Arctic Research Centre (ARC) Management Board, Faculty of Science and Technology, Aarhus University. Participating in Arctic Science Partnership scientific programs in Greenland and Canada.
2009-2013 External Associated Professor at Centre for Arctic Environmental Medicine (CAM), Faculty of Health, Aarhus University. Teaching medical student in environmental contaminants and their health effects.
2006-2014 Senior Research Scientist at Department of BioScience, Faculty of Science and Technology, Aarhus University, Denmark. Responsible for the health studies of pollution in mammals and birds in Europe and the European Arctic. Employed as surgeon for the implantation of satellite transmitters in sea birds.

- 2004-2006 Scientist at Department of Arctic Environment, National Environmental Research Institute, Ministry of the Environment and Energy. Co-responsible for health studies of polar bears in East Greenland and polar bear proxy model species (sledge dogs and Arctic foxes).
- 2001-2004 PhD student at Department of Arctic Environment, National Environmental Research Institute, Ministry of the Environment and The Royal Veterinary and Agricultural University, Copenhagen, Denmark.
- 1999-2001 Research assistant at Department of Arctic Environment, National Environmental Research Institute, Ministry of the Environment. Assisting the continuation of seal studies in the European Arctic and starting up polar bear health studies in East Greenland.
- 1997-1999 Master student at Department of Arctic Environment, National Environmental Research Institute, Ministry of the Environment.

POSTS IN SCIENTIFIC JOURNALS, SCIENTIFIC BOARDS, COMMITTEES, NETWORKS, CENTRES ETC.:

- 2018-ong. Associate and Special Issue Editor of Environmental Pollution.
- 2018-ong. Editor of Data in Brief.
- 2014-ong. Examination Board Member of the European College of Zoological Medicine.
- 2013-ong. Subject Editor for Wildlife Biology.
- 2013-ong. Senior Editor for AIMS Environmental Science.
- 2013-ong. Subject Editor for Wildlife Biology.
- 2013-ong. Review Editor for Frontiers in Environmental Science.
- 2013-ong. Editorial Board Member of Environment International (7th ranked in Environmental Sciences), Environmental Research and Helyion.
- 2013-ong. Diplomat of the European College of Zoological Medicine.
- 2013-ong. Member of the European Board of Veterinary Specialists.
- 2012-2014 Scientific Committee member for ISACP2014, The 16th Biennial Congress of the International Society for Animal Clinical Pathology 2014, 25th-29th June 2014, Copenhagen, Denmark.
- 2012-2017 Department delegate in the Arctic Research Centre (ARC), Aarhus University.
- 2012-2016 Co-chair of the ESF based EURAPMON (Research and Monitoring for and with Raptors in Europe) network.
- 2011 Danish member of the advisory board for the 26th NKVet Symposium 6-7 October 2011, Helsinki, Finland: Environmental Contaminants and Animal Health.
- 2009-2012 Department delegate member of the Danish Centre of Wildlife Health.
- 2018 Head, evaluation panel for professor (full) position, Department of Bioscience, Århus University, Denmark.
- 2008-ong. Member of the AMAP Hg Effect Assessment working group.
- 2007-ong. National Steering Committee member of the ESF based EURAPMON (Research and Monitoring for and with Raptors in Europe) network.
- 2005-ong. Member of the AMAP POP Effect Assessment working group.
- 2005-ong. Danish member of the IUCN (International Union for Conservation of Nature) PBSG (polar bear specialist group).

MAIN RESEARCH ACITIVITIES:

- 2017-20 EcoThyr. Thyroid hormones and endocrine-disrupting chemicals in glaucous gulls.
- 2017-20 BALTHEALTH. Baltic Sea multilevel health impacts of anthropogenic hazardous substances on key species. The project examines climate change, food web dynamics, hazardous industrial chemicals and the health of marine key species of the Baltic Sea. BONUS, part of the EU's H2020.
- 2016-ong. EcoStress. Ecology and temporal trends of ecological parameters in European and Greenland white-tailed sea-eagles.
- 2015-ong. EiderHealth. Ecology, survival and reproduction in eider ducks at Christiansø, Western Baltic.
- 2015-ong. ZORRO. Infectious Zoonotic Diseases Transmissible from Harvested Wildlife to Humans in the European Arctic. A unique and novel working group focusing on detrimental zoonosis in the Arctic.
- 2015-ong. Unexpected – contaminants in polar bears and Greenland Inuits. Focusing on increasing contaminant trends in polar bears and Inuits in East Greenland.
- 2014-ong. NewRaptor. Exposure and effects of emerging contaminants in marine and terrestrial birds of prey.
- 2014-ong. Studying non-migratory fish as sentinel species for biological effects from mining and other raw

- material activities in Greenland.
- 2013-ong. Immobilizing and equipment of red deer and roe deer with radio collars to investigate spatial use, food preference, health a.o.
- 2013-ong. Species at Risk and Predator – contaminants in humans, raptors and killer whales in Greenland and organ-pathology of sculpins at Greenland mine sites.
- 2013-ong. OCEAN12 (Combined modeling Of Climate Effects on Anthropogenic and Natural Stressors 2012). Modelling of climatic, biological, physical-chemical and contaminant data in Greenland key species.
- 2012-ong. Physiologically based pharmacokinetic (PBPK) modelling of contaminants in humans – a new tool in the AMAP assessment of Contaminants and Human Health.
- 2011-2013 Xenooestrogenic and dioxin-like activity in blood of East Greenland polar bears.
- 2012-ong. East Bay Island common and king eider PTT satellite telemetry implantation project with Environment Canada and Baffinland Iron Mines Corporation.
- 2011-2013 PELATES - Population Effect Levels on Arctic Top EcoSystems. A project that follow-up some of the endocrine and immune assays undertaking in ARCTIC.
- 2010-ong. Research and Monitoring for and with Raptors in Europe (EURAPMON). An ESF networking programme to strengthen the contribution of research and monitoring for and with raptors in Europe to delivery of biodiversity, environmental and human health benefits, including maintenance and recovery of raptor populations and their habitats, and reduced chemicals threats to ecosystem and human health focusing on migratory birds of prey.
- 2009-2013 ARCTIC - Advanced Research on Contaminant Transfer, Impact and Consequences. A international project focusing on mercury and POP distribution and health effect in Arctic marine mammals and polar bears.
- 2009-2010 Pilot study of histopathology in glaucous gulls from Bear Island exposed to persistent organic pollutants in the Norwegian Arctic.
- 2008-2012 Department delegate in the Danish Centre of Wildlife Health with the purpose of assessing health status of selected Danish mammal and bird spp.
- 2008-ong. Effects of mercury on Florida marine fish populations: a preliminary assessment of liver, kidney, blood, and nervous system health.
- 2007-2010 International leader of the IPY Fuller #134 BearHealth project with the aim of assessing circumpolar polar bear health status in relation to climate changes and contaminant exposure and neuro-endocrine disruptions.
- 2007-2013 Initiating studies of mercury and persistent organic pollutants in Faroe Island pilot whales and how that may impact the morphology of internal organs and brain functioning.
- 2006-2015 Persistent organic pollutants and natural stress in avian top predators of northern ecosystems; potential vulnerability to environmental change. Raptor working group.
- 2006-2013 Factors of importance for bioaccumulation and effects of new- and old persistent organic pollutants (POPs) in a seabird top predator: the great skua (*Catharacta skua*). Great skua working group.
- 2006-ong. Participation in AMAPs working groups of contaminants in the Arctic and the health effects in wildlife.
- 2004-2008 Effects of persistent organic pollutants in sledge dogs and the extrapolation to polar bears with focus on East Greenland.
- 2004-2008 Norwegian Research Council project about bioavailability and effects of organochlorine contaminants in relation to seasonal lipid cycles in arctic fox (*Alopex lagopus*) and how it link to pollution in wild Arctic predators and their health.
- 2000-ong. Satellite telemetry including various sea birds in Canada, Greenland, Norwegian and inner Danish waters – assessing the migration routes, breeding ground and molting areas as part of EIAs.
- 1999-ong. Polar bear work mainly in East Greenland under different contaminant projects supported by AMAP and other international funding sources.
- 1997-ong. Organic and metal contaminants in seal spp. in Greenland and potential health effects on internal organs and bone systems under the AMAP Greenland time trend and core programmes.

MAIN FUND-RAISING AND PROJECT LEAD EXPERIENCE:

- 2017-20 EcoThyr. Thyroid hormones and endocrine-disrupting chemicals in glaucous gulls. Norwegian Research Council (400,000 EUR). CS Danish PI.
- 2017-2020 BALTHHEALTH. Baltic Sea multilevel health impacts of anthropogenic hazardous substances on key species. The project examines climate change, food web dynamics, hazardous industrial chemicals and the health of marine key species of the Baltic Sea. BONUS, part of the EU's H2020 (2,800,000 EUR). CS Danish co-PI.

- 2015-ong. EiderHealth. Ecology, survival and reproduction in eider ducks at Christiansø, Western Baltic. 15 Juni Foundation and Danish Hunters Nature Foundation. 500,000 DKK. CS PI.
- 2015-ong. ZORRO. A unique and novel working group focusing on detrimental zoonosis in the Arctic. Nordic Council of Ministers (500,000 DKK). CS PI.
- 2014-18 NewRaptor. Exposure and effects of emerging contaminants in marine and terrestrial birds of prey. Norwegian Research Council (1,000,000 EUR). CS Danish PI responsible for blood chemistry and pathology measures.
- 2015-ong. Unexpected – contaminants in polar bears and Greenland Inuits (1,000,000). CS co PI on the field sampling and interpretation of contaminant results.
- 2013-ong. Immobilizing and equipment of red and roe deer with radio collars to investigate spatial use, food preference and health (1,000,000 DKK). CS responsible for immobilization and health studies.
- 2013-ong. Species at Risk and Predator – contaminants in humans, raptors and killer whales in Greenland. CS co-applicant (2,500,000 DKK). CS responsible for autopsies, sampling and biomarker work.
- 2012-2014 OCEAN12 (Combined modeling Of Climate Effects on Anthropogenic and Natural Stressors 2012 – 985,000 DKK). Modelling of climatic, biological, physical-chemical and contaminant data in Greenland key species. CS responsible for the health studies on polar bears.
- 2012-2013 Physiologically based pharmacokinetic (PBPK) modeling of contaminants in humans – a new tool in the AMAP assessment of Contaminants and Human Health (200,000 DKK). CS responsible for the publication.
- 2012-2016 East Bay Island Common Eider PTT Implantation project with Environment Canada and Baffinland Iron Mines Corporation (1,000,000 DKK). CS responsible for the surgical implantations.
- 2011-2013 PELATES (Population Effect Levels on Arctic Top EcoSystems – 399,800 DKK). A project that follow-up on some of the endocrine and immune assays undertaking in ARCTIC. CS co-lead on the project and responsible for field sampling and collaboration with national and US colleagues conducting the analyses.
- 2010-2015 EURAPMON (Research and Monitoring for and with Raptors in Europe – 5,000,000 DKK). An ESF networking programme to strengthen the contribution of research *for* and *with* raptors in Europe. CS co-applicant and responsible for conducting Danish raptor research under this programme.
- 2009-2012 ARCTIC (Advanced Research on Contaminant Transfer, Impact and Consequences – 3,100,000 DKK). An international project focusing on mercury and POP distribution and health effect in Arctic marine mammals and polar bears. CS co-applicant, co-lead and responsible for a broad sweep of biomarker analyses.
- 2009-ong. Study of histopathology in glaucous gulls from Bear Island exposed to persistent organic pollutants in the Norwegian Arctic. CS responsible for the histological assessments of multiple organ-systems.
- 2008-2012 CVS (Center for Vildtsundhed – 10,000,000 DKK). A Center with the purpose of Health with the purpose of assessing health status of selected Danish mammal and bird spp. CS Department delegate and responsible for assessment of heavy metals and persistent organic pollutants and possible health effects.
- 2008-ong. Effects of mercury on Florida marine fish populations: a preliminary assessment of liver, kidney, blood, and nervous system health. CS responsible for histological and biochemical assessments and evaluation of health effects in relation to mercury exposure.
- 2007-2011 BearHealth IPY Fuller #134 (Polar bear circumpolar health assessment in relation to toxicants and climate change (10,000,000 DKK). CS co-applicant and international PI and responsible for a broad range of effect parameters and supervision of students.
- 2006-2010 APWA (AMAP POP effect workshop and Assessment – 250,000 DKK). CS co-applicant and PI and responsible for parts of the AMAP Review Assessment Stoten article.
- 2005-2006 Effekter af hormonforstyrrende stoffer i isbjørne og slædehunde - en indikation for mulige effekter hos mennesker. Lundbeck Foundation: 600.000 DKK. CS co-applicant and co-lead.
- 2004-2010 POISI (Effects of contaminants on Greenland sledge dogs (> 5,000,000 DKK). CS co-applicant and co-lead. CS responsible for histological and bone morphometric analyses and supervision of students.
- 2004-2010 BCAF (Bioavailability and effects of organochlorine contaminants in relation to seasonal lipid cycles in arctic fox (*Alopex lagopus*) – 4,000,000 NOK). Norwegian Research Council. CS responsible for histological and bone morphometric analyses.
- 1999-ong. Satellite telemetry including various sea birds in Canada, Greenland and inner Danish waters – assessing the migration routes, breeding ground and moulting areas as part of EIAs (> 30,000,000 DKK). CS Danish co-PI and responsible for surgical implantations.
- 1999-ong. GSPB (The Greenland Sea Polar Bear (> 8,000,000 DKK). Multiple programs investigating the East Greenland polar bear health under different contaminant projects supported by AMAP and other international funding sources. CS co-applicant and responsible for histological and bone

- morphometric analyses (PhD thesis).
- 1997-2000 Organic and metal contaminants in seal spp. in Greenland and potential health effects on internal organs and bone systems under the AMAP Greenland time trend and core programmes (1,000,000 DKK). CS responsible for the histological and bone morphometric analyses (DVM thesis).

SUPERVISION OF STUDENTS AND MENTORING:

- 2015-ong. A number of internships and ECZM WHP Dipl. residencies.
- 2016-2017 MSc student Lærke Najbjerg with project title “Are temporal changes in ringed seal (*Pusa hispida*) blubber thickness related to climate change and hunting?”.
- 2016-2017 MSc student Maria Nielsen with project title “Zoonotic diseases in wildlife and humans in the Arctic with comparison of different analytical methods”.
- 2015-2017 PhD student Rasmus Nørregaard with project title “Effect from metal pollution on sculpins and arctic char in Greenland”.
- 2016-2016 Master students Tobias Daugaard-Petersen, Henrik M. Kaarsholm and Ninna Verland with theses “Do environmental contaminants affect bone homeostasis in polar bears?” and “A gradient assessment of histopathology in Greenland sculpins”.
- 2015-2016 Master student Mona Lykke Jacobson with project title: “Environmental contaminants in Norwegian sea eagles and laboratory quails: biochemical and histopathological effects”.
- 2015-2016 Master student Svend-Erik Garbus with project title: “Eider ducks at Ertholmene, Christians Ø: body fitness, unfertilized eggs and aviary cholera”.
- 2015-2016 Mentor for researcher Lis Bach and Ass Prof Kim Hebelstrup.
- 2014-2018 PostDoc Igor Eulaers with project title: “An assessment of the effects from ecological changes on European and Arctic predators pin-pointed by dietary tracers, environmental contaminants and physiological endpoints”.
- 2014-2015 Mentor for researcher Anna Louise Frydendahl Hellwing.
- 2014-2015 Master student Emilie Andersen-Ranberg with project title “First-time record of liver flukes in High-Arctic ringed seals and histological lesions also in relation to burden of heavy metals”.
- 2014-2017 PhD student Jean-Pierre Desforges with project title “Effects of contaminants on the immune and hormone systems of North Atlantic top predators”.
- 2008-2012 PhD student Thea Bechshøft with thesis title: “A temporal study of industrial pollution and climate change biomarkers in Greenland and Svalbard polar bears (*Ursus maritimus*)”.
- 2007-2010 PhD student Aurora Aubail with thesis title “Time trends in mercury in Greenland biota”.
- 2005-2009 PhD student Maja Kirkegaard with thesis title: “Levels of vitamins and hormones in blood, kidney and liver of West Greenland sledge dogs (*Canis familiaris*) exposed to organohalogen contaminants”.
- 2004-2006 MSc Thea Bechshøft with thesis title: “Fluctuating Asymmetry in East Greenland and Svalbard Polar Bear (*Ursus maritimus*) skulls”.
- 2002-2004 MSc Maja Kirkegaard with thesis title: “Histology of Selected Immunological Organs in East Greenland Polar Bears (*Ursus maritimus*) in Relation to Levels of Organohalogens and Age Determination and Use of Dental Structures to Determine Female Reproductive History in East Greenland Polar bears”.
- 1999-ong. In addition to these a large number (20+) of master students, PhD students and Post Doc fellows abroad via my on-going collaboration projects and networks.

LECTURES/TEACHING:

- 2018-Ong. MSc course *Toxicology and Environmental Toxicology* (10 ECTS), UoC, DK.
- 2015-ong. MSc and PhD course *Arctic Environmental Toxicology* (10 ECTS) at UNIS, Svalbard, NO.
- 2015-ong. MSc course *Marine Mammal Biology* (7.5 ECTS), UoC, DK.
- 2014-ong. MSc NOVA course *Nordic Zoo, Wildlife and Conservation Medicine* (6 ECTS), UoC, DK.
- 2010-ong. MSc course *Arctic Medicine* (5 ECTS), AU, DK.
- 2010 MSc course *Arctic biology* (7.5 ECTS), UoC, DK.

MAIN NATIONAL AND INTERNATIONAL COLLABORATION PARTNERS:

Denmark

PET Center, University Hospital of Aarhus

Researcher, DVM, PhD, Aage K. Olsen

CAH, University of Aarhus

Professor, Director, MSc, PhD, Eva B. Jørgensen

Professor, MD, PhD, Bente Lomholt Langdahl

University of Aalborg

Professor, MSc, PhD, Cino Pertoldi
Professor, MD, PhD, Peter Vestergaard
University Hospital of Hvidovre
Chief physician, MD, DMSc, Lars Hyldstrup,
Chief physician, Jens-Erik Bech Jensen, MD, PhD

University of Copenhagen
Professor, MAgroSci, DSc, André Cwalibog
Professor, MAgroSci, DSc, Anne-Helene Tauson
Professor, DVM, PhD, DVSc, Asger L. Jensen
Professor, DVM, PhD, Annette Flagstad
Associate professor, DVM, PhD, Pall S. Leifsson
Associate professor, DVM, PhD, DVSc, Vibeke Dantzer
Associated Professor, Mads Jens Kjeldgaard-Hansen, DVM, PhD
Associated professor Dr. Bjarne Styrihave, MSc, PhD
Professor Director Eske Willerslev, MSc, DSc
PDF Eline Lorentzen, MSc, PhD

University of Southern Denmark
Professor, MD, DMSc, Philippe Grandjean

Faroe Islands

Food Veterinary- and Environmental Agency
Senior Research Scientist, MSc, DSc, Maria Dam

Faroe Island Hospital System
Chief Physician, MD, Pal Weihe

Zoological Museum
Professor, MSc, PhD, Dorete Bloch

Greenland

Greenland Institute of Natural Resources
Senior Research Scientist, MSc, Dr. Philos, Erik W. Born

Norway

University of Science and Technology
Professor, MSc, DSc, Bjørn Munro Jenssen
Scientist, MSc, PhD, Tomasz Maciej Ciesielski
Associated Professor, MSc, PhD, Veerle L.B. Jaspers

Norwegian Polar Institute
Senior Research Scientist, MSc, PhD, Jan-Ove Bustnes
Senior Research Scientist, MSc, PhD, Geir Gabrielsen
Senior Research Scientist, MSc, PhD, Jon Aars

University of Oslo
Professor, MSc, Dr. Philos, Øystein Wiig
National Veterinary Institute
Professor, DVM, PhD, Morten Tryland
Director of Research, MSc, Dr. philos, Janneche Utne Skaare

NIVA, Oslo
Scientist, MSc, PhD, Elisabeth Lie

Sweden

University of Stockholm
Associate professor, DVM, PhD, Britt-Marie Bäcklin
Researcher, PhD, Anna Roos

Swedish University of Agricultural Sciences
Prof, DVM, PhD Ulf Magnusson

Germany

University of Veterinary Medicine Hannover
Professor, Director, DVM, PhD, Ursula Siebert

Belgium

University of Antwerp

Professor, MSc, PhD, Adrian Covaci

Canada

Environment Canada

Associate professor, Senior scientist, MSc, PhD, Robert J. Letcher
Associate professor, Senior scientist, MSc, PhD, Derek C. G. Muir
Senior scientist, MSc, PhD, Grant Gilchrist

University of McGill

Associate professor, MSc, PhD, Niladri Basu
Associate professor, MSc, PhD, Melissa McKinney

University of Waterloo

Professor, MSc, PhD, Mathilakath M. Vijayan

Ecole Polytechnique de Montreal

Professor, MSc, PhD, Raman Kashyap

USA

University of Fairbanks

Associate professor, DVM, PhD, Todd M. O'Hara

Florida Fish and Wildlife Conservation Commission, Melbourne

Researcher, MSc, PhD, Doug H. Adams

Massachusetts Institute of Technology (MIT)

Professor, DVM, PhD, Jon Runstadler
Scientist, BSc, PhD, Wendy Puryear

Networks

IUCN PBSG

AMAP HG POP AND EFFECT SPECIALIST WORKING GROUP

EURAPMON, EUROPEAN COLLEGE OF ZOOLOGICAL MEDICINE

FIELD EXPERIENCE:

- 1998 Thule, North West Greenland. Autopsi and necropsy of ringed seals (*Phoca hispida*) for the Arctic Monitoring and Assessment Programme and master thesis.
- 1998 Sondre Stromfjord, West Greenland. Assistance to the U.S. Peregrine Survey Team, The Peregrine Foundation, Boise, USA at their summer survey of peregrine (*Falco peregrinus*) nests in the area.
- 1999 Disco Island (Godhavn), West Greenland. Autopsi and necropsy of ringed seals (*Phoca hispida*) for the Arctic Monitoring and Assessment Programme.
- 1999 Scoresby Sound, East Greenland. Meetings held with local Inuit hunter for the initiation of necropsies from East Greenland polar bears (*Ursus maritimus*).
- 2000 Godthaab, West Greenland. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*Somateria molissima*) to track these in the winter areas and along to their summer breeding habitats.
- 2000 Scoresby Sound, East Greenland. Autopsi and necropsy of East Greenland polar bears (*U. maritimus*) on a five week long inuit sledge hunting trip.
- 2000 Disco Island (Godhavn), West Greenland. Autopsi and necropsy of ringed seals (*P. hispida*) for the Arctic Monitoring and Assessment Programme.
- 2001 Godthaab, West Greenland. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) to track these in the winter areas and along to their summer breeding habitats.
- 2001 Hudson Bay, East Canada. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2002 Upernavik, West Greenland. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) to track these in the summer breeding habitats as well as their migration to autumn and winter areas.
- 2003 Hudson Bay, East Canada. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) and king eider (*S. spectabilis*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2003 Disco Island (Godhavn), West Greenland. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) and king eider (*S. spectabilis*) to track these in their moulting area as well as their migration route to winter areas.
- 2004 Aasiaat, Disco Bay, West Greenland. Blood sampling and clinical inspection of 16 bitches and 9 puppies in a controlled experience of endocrine disrupting and immunopathy organohalogen

- contaminants.
- 2004 Oslo, Norway. Clinical inspection, euthanasia and organ sampling from 15 arctic foxes in a controlled experience of endocrine disrupting and immunopathy organohalogen contaminants.
- 2005 Aasiaat, Disco Bay, West Greenland. Clinical inspection, sampling and Intradermal testing (type IV) of 16 bitches and 9 puppies in a controlled experience of endocrine disrupting and immunopathy organohalogen contaminants.
- 2005 Aasiaat, Disco Bay, West Greenland. Euthanasia of and organ sampling from 16 bitches and 9 puppies in a controlled experience of endocrine disrupting and immunopathy organohalogen contaminants.
- 2005 Disco Bay, West Greenland. Sutaneous implantation of satellite transmitters in Brünnich's Guillemot (*Uria lomvia*) to track these and their hatchlings from breeding cliff to foraging area.
- 2006 Disco Bay, West Greenland. Sutaneous and intracoelomic implantation of satellite transmitters in Brünnich's Guillemot (*U. lomvia*) to track these and their hatchlings from breeding cliff to foraging area.
- 2006 NIOZ, Holland. Sutaneous implantation of radio loggers in red knots (*Calidris c. canutus*) to perform a dummy study prior to field activities in Mauretania, North West Africa to track the species from their winter locality in Africa to their breeding habitat in Siberia.
- 2007 East Greenland. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) and long-tailed duck (*Clangula hyemalis*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2007 Thule, North West Greenland. Sutaneous and intracoelomic implantation of satellite transmitters in Brünnich's Guillemot (*U. lomvia*) to track these and their hatchlings from breeding cliff to foraging area.
- 2009 Båtsfjord, Northern Norway. Introabdomial (-coelomic) implantation of satellite transmitters in king eider (*S. spectabilis*) to track these from their winter areas to breeding habitat.
- 2009 East Greenland. Introabdomial (-coelomic) implantation of satellite transmitters in common and king eiders (*S. molissima* and *spectabilis*), long-tailed duck (*Clangula hyemalis*) and Brünnich's Guillemot (*U. lomvia*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2010 (U. lomvia) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2011 Thule, West Greenland. Obduction and sampling of tissue from narwhals (*Monodon monoceros*) for the project ARCTIC focusing on mercury and biomarkers for exposure and health.
- 2011 Scoresby Sound, East Greenland. Autopsi and high-quality sampling from East Greenland polar bears (*U. maritimus*) with international science crew and the UK Channel-4.
- 2012 Faroe Islands. Dissection of brain samples from pilot whales (*Globicephala melas*) to be used in the project ARCTIC focusing on mercury and biomarkers for exposure and health.
- 2012 Scoresby Sound, East Greenland. Autopsi and high-quality sampling from East Greenland polar bears (*U. maritimus*) with Danish DK4.
- 2013 Hudson Bay, East Canada. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2013 Kleelund Dyrehave, Denmark. Immobilization and GPS-instrumentation of red deer (*Cervus elaphus*).
- 2013 Kaløskovene, Denmark. Immobilization and GPS-instrumentation of roe deer (*Capreolus capreolus*).
- 2013 Hudson Bay, East Canada. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) and king eider (*S. spectabilis*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2014 Kulusuk, East Greenland. Autopsy and high-quality sampling from killer whales (*Orcinus orca*) and Inuits.
- 2014 Thule, North West Greenland. Autopsy and necropsy of ringed seals (*Phoca hispida*) for the Arctic Monitoring and Assessment Programme and master thesis.
- 2015 Tasilaq, East Greenland. Autopsy and high-quality sampling from killer whales (*Orcinus orca*) and Inuits.
- 2015 Nord-Trøndelag, Norway. Catching and bleeding pink-footed geese (*Anser brachyrhynchus*).
- 2016 Scoresby Sound, East Greenland. Autopsy of narwhales (*Monodon monoceros*), polar bears (*Ursus maritimus*) and blood sampling of Inuits.
- 2017 Nord-Trøndelag, Norway. Catching and bleeding pink-footed geese (*Anser brachyrhynchus*).
- 2017 Nord-Trøndelag, Norway. Catching and bleeding pink-footed geese (*Anser brachyrhynchus*).
- 2017 Christiansø, Bornholm. Introabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
- 2017 Kalø, Jylland. Introabdomial (-coelomic) implantation of satellite transmitters in common scoter (*M. nigra*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.

2018 Thule, North West Greenland. Intraabdomial (-coelomic) implantation of satellite transmitters in common eider (*S. molissima*) to track these in their summer breeding habitat as well as their migration route to autumn and winter areas.
2018 Denmark. Catching and bleeding common eider to assess health status.
2018 Oulo, Finland. Catching and bleeding pink-footed geese (*Anser brachyrhynchus*).
Svalbard, Norway. Catching and bleeding pink-footed geese (*Anser brachyrhynchus*).

REVIEW WORK:

Regular reviewer (> 200) for: Acta Cytologica, Analytical and Quantitative Cytology and Histology, Acta Veterinaria Scandinavica, AIMS Environmental Science, African Journal of Biotechnology, African Journal of Microbiology Research, Aquatic Toxicology; Archives of Environmental Contamination and Toxicology, Arctic, Biological Conservation, Cellular Signalling, Chemosphere, Comparative Biochemistry and Physiology, Conservational Physiology, Diseases of Aquatic Organisms, Current Biology, EcoHealth, Ecological Indicators, Ecotoxicology and Environmental Safety, Environment International, Environmental Health, Environmental Health Perspectives, Environmental Pollution, Environmental Research, Environmental Reviews, Environmental Science and Technology, European Journal of Wildlife Research, International Journal of Environmental Research and Public Health, International Journal of Molecular Sciences, International Journal of Veterinary Science and Medicine, International Journal of Veterinary Science and Research, Dairy Veterinary and Animal Research, International Journal for Parasitology, Journal of Epidemiology and Community Health, Journal of the Marine Biological Association, Journal of Medicinal Plant Research, Journal of Nutrition and Food Sciences, Journal of Parasitology and Vector Biology, Journal of Sea Research, Journal of Toxicology and Environmental Health, Journal of Veterinary Science, Journal of Wildlife Diseases, Journal of Zoo and Wildlife Medicine, Marine Environmental Research, Marine Mammal Science, Marine Pollution Bulletin, Open Veterinary Journal, PLoS ONE, Polar Biology, Rangifer, Science of the Total Environment, Toxicological and Environmental Chemistry, Toxicology and Applied Pharmacology, Vector-Born and Zoonotic Diseases, Water SA, Water Science and Technology, Wildlife Biology and World Journal of Surgical Oncology.

REVIEW WORK FOR RESEARCH COUNCILS A.O.:

1. Reviewer for Research Council Norway (Head of Panel)
2. Faroe Island Research Council
3. Canadian Northern Contaminant Program
4. The Southeast Regional Office of the U.S. National Marine Fisheries Service
5. US North Pacific Research Board
6. French Agence Nationale de la Recherche
7. Danish EPA
8. Fonds de recherche du Québec Nature et technologies
9. Arctic Monitoring and Assessment Program (AMAP)
10. United Nations Environment Programme (UNEP)
11. Opponent (censor) for several BSc, MSc and PhD theses in Norway, Sweden and Spain

REFERENCES:

Prof Dr. Jesper Madsen

Aarhus University
Department of Bioscience Kalø
Grenåvej 14, Kalø, 8410 Rønde
DK-8000 Aarhus
Denmark
E-mail: jm@bios.au.dk
TEL. +45-29440204

Prof Dr. Rune Dietz

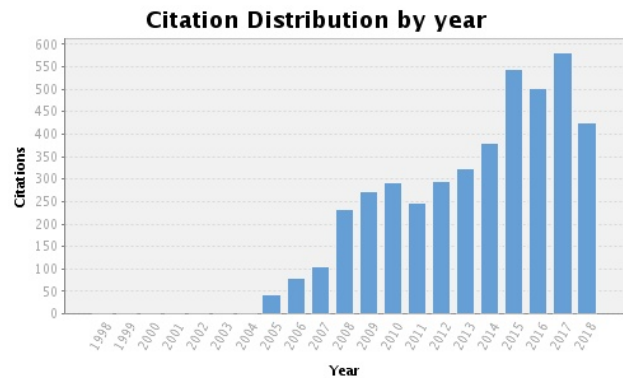
Aarhus University
Dpt. of Bioscience Roskilde
Frederiksborgvej 399, POBox 358
DK-4000 Roskilde
Denmark
E-mail: rdi@bios.au.dk
TEL. +45-21254035

Prof Bjørn Munro Jenssen

NTNU Trondheim
Department of Biology
Høgskoleringen 5
NO-7491 Trondheim
Norway
E-mail: bjorn.munro.jenssen@ntnu.no
TEL.: +47-91897120

BIBLIOMETRICS:

ResearcherId: I-7532-2013. **ORCID:** 0000-0001-5723-5263. 285 publications are found at ResearcherId/ISI/WoS that has received 4008 citations with an average of 25 citations per article. **ISI/WoS H-index:** 41. 380 publications are found in ORCID among these in CELL, NATURE and SCIENCE. 286 publications are found in Google Scholar that has received 6436 citations with an average of 23 citations per article. **Google Scholar H-index:** 45. 159 publications are found in Mendeley with 9007 readers, 3667 citations and 141K views. **Mendeley H-index:** 39. 224 publications are found at ResearchGate with 23386 reads, 5273 citations and an RG-score of 44.52 being higher than 97.5% of ResearchGate members. **ResearchGate H-index:** 44. In addition to this, 8 book chapters/proceedings, 14 peer-reviewed scientific reports, 136 conference presentations, 7 popular scientific publications and more than 100 spoken and written news pieces in national and international Medias reflected in more than 850,000 hits on the Internet. Visit [ISI/WoS](#), [GoogleScholar](#), [ResearchGate](#) and [PURE](#) for further information. **Bibliometry.** The Figure shows the no. of citations the ISI/WoS articles have received in the period 2004-2018. Of the publications found in ISI/WOS, 91 are published within the WoS subject area *Environmental Sciences* that contains 216 scientific journals in total. Out of the 91 publications, 70% are found in the 20% highest ranked journals and 95% in the 50% highest ranked journals. The six major institutions citing my work include Environment Canada, Carleton University, Aarhus University, Stockholm University, Norwegian Polar Research Institute and Fisheries Oceans Canada.



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255. **Sonne C**, Dietz R, Letcher RJ, I Eulaers et al. (2018): Contaminant exposure and effects in Arctic wildlife. CAFF Conference, Rovaniemi, 9-12 2018, Finland. **Invited speaker.**
256. Desforges JPW, Hall A, McConnel B, **Sonne C** et al. (2018): Predicting global killer whale population collapse from PCB pollution. Danish Marine Mammal Symposium, Copenhagen, Denmark.
257. Dietz R, Eulaers I, Desforges JP, **Sonne C**, Letcher RJ (2018): An assessment of the biological effects of organohalogen exposure in Arctic wildlife and fish. 38th International Symposium on Halogenated Persistent Organic Pollutants (DIOXIN 2018), Aug. 26-31, Kraków, Poland.
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269. Vorkamp K, Rigét FF, Bossi R, **Sonne C**, Dietz R (2017): Studies of “new contaminants” in the Danish/Greenland AMAP Core Programme. International Conference on Arctic Science: Bringing Knowledge to Action, 24-27 April 2017, Reston, Virginia, USA.
270. **Sonne C**, Eulaers I (2016): Environmental stress on the white-tailed eagle. Danish Ornithological Society: Annual Project Eagle meeting, 19 March 2016, Odense, Denmark. Oral presentation. **Invited speaker.**
271. Bechshøft T, **Sonne C**, Derocher A, Viengkone M, Routti H, Aars J, Letcher RJ, Dietz R, Jenssen BM, Richardson E, Lunn N (2016): Looking for the ecology in polar bear toxicology studies. 24th International Conference on Bear Research & Management (IBA 2016), 12-16 June 2016, Anchorage, AK, USA. Oral presentation.
272. Desforges JP, Eulaers I, Periard L, Dietz R, **Sonne C**, Letcher RJ (2016): Rapid and efficient extraction methodology for persistent contaminant cocktails from large and high lipid adipose samples of Arctic marine mammals. 36th International Symposium on Halogenated Persistent Organic Pollutants (DIOXIN

- 2016), Aug. 28 – Sept. 2, Florence, Italy.
273. Desforges JPW, Levin M, **Sonne C** et al. (2016): In vitro immunotoxicity of blubber-derived contaminant cocktails in freshly collected lymphocytes from marine mammals. DIOXIN 36th International Symposium on Halogenated Persistent Organic Pollutants. Florence, Italy.
 274. Strobel A, Letcher RJ, Willmore W, **Sonne C**, Dietz R (2016): In vitro metabolism, fate and bioaccumulation of organophosphate esters (OPEs) in polar bears and their ringed seal prey. ArcticNet Annual Scientific Meeting, 5-9 December 2016, Winnipeg, Canada.
 275. Andersen-Ranberg EU, Lehnert K, **Sonne C**, Siebert U, Dietz R (2015): Morphometric and molecular identification of liver flukes isolated from West Greenland ringed seals (*Pusa hispida*). 89th Annual Meeting of the German Society for Mammalian Biology (Deutsche Gesellschaft für Säugetierkunde e.V.), 13-16 Sept 2015, Hannover, Germany. Poster presentation.
 276. Bach L, **Sonne C**, Rigét FF, Dietz R, Asmund G (2015): A simple method to reduce the risk of cadmium exposure from consumption of iceland scallops (*Chlamys islandica*) fished in Greenland. SETAC Europe 25th Annual Meeting, 3-7 May 2015, Barcelona, Catalonia, Spain. Poster presentation.
 277. Bechshøft TØ, Derocher AE, Richardson E, Mislán P, Lunn NJ, **Sonne C**, Dietz R, Janz DM, St. Louis VL (2015): Mercury and cortisol in western Hudson Bay polar bear hair. Wildlife Society 22nd Annual Conference, October 17-21 October 2015, Winnipeg, Canada. Poster presentation.
 278. Boisvert G, Letcher FJ, Dyck M, **Sonne C**, Dietz R (2015): A comparison of bioaccumulative perfluorinated sulfonic and carboxylic acids and precursors in recent liver samples of polar bears from East Greenland (2012) and two subpopulations from Hudson Bay, Canada (2011-2012). SETAC North America 36th Annual Meeting, 1-5 Nov 2015, Salt Lake City, Utah, US. Poster presentation.
 279. Boisvert G, Dietz R, **Sonne C**, Letcher RJ (2015): Novel and established perfluoroalkyl substances in East Greenland ringed seals and polar bear liver and fat samples and predator to prey bioaccumulation and biomagnification. SETAC North America 36th Annual Meeting, 1-5 Nov 2015, Salt Lake City, Utah, US. Poster presentation. Poster presentation.
 280. Boisvert G, Letcher RJ, Dietz R, **Sonne C**, Born EW (2015): Novel and established perfluoroalkyl substances in East Greenland ringed seals and polar bear liver and fat samples and predator to prey bioaccumulation and biomagnification. ArcticNet Meeting/Northern Contaminant Program Workshop 2015, December 7-11, Vancouver, BC, Canada.
 281. Desforges JP, Levin M, **Sonne C**, Dietz R, Gebhard E, Jasperse L, Bossi R, Letcher RJ, Eulaers I, Gabrielsen K, De Guise S (2015): Immune Effects of PCBs and PFCs in East Greenland Ringed Seals. SETAC Europe 25th Annual Meeting, 3-7 May 2015, Barcelona, Catalonia, Spain. Oral presentation.
 282. Desforges JPW, **Sonne C**, Levin M, De Guise S, Bossi R, Eulaers I, Siebert U, Dietz R (2015): Immunotoxic effects of environmental pollutants in marine mammals. The 21st Biennial Conference on the Biology of Marine Mammals, 13-18 December 2015, San Francisco, CA USA.
 283. Dietz R, Gustavson K, **Sonne C**, Desforges JPW, Rigét FF, Pavlova V, McKinney MA, Letcher RJ (2015): Effects of contaminant exposure in polar bears (*Ursus maritimus*) across the Arctic, over the last three decades. The 21st Biennial Conference on the Biology of Marine Mammals, 13-18 December 2015, San Francisco, CA USA.
 284. Eulaers I, Dietz R, **Sonne C** (2015): A pan-European assessment of mercury exposure and associated health effects in European raptor species and their subpopulations. EURAPMON final conference 2015, 9-11 March 2015, Aledo, Spain. Oral presentation and poster.
 285. Gabrielsen KM, Krokstad JS, Villanger GD, Blair DAD, Obregon MJ, Ciesielski TM, **Sonne C**, Dietz R, Letcher RJ, Munro Jenssen BM (2015): Thyroid-disruptive effects of organohalogenated compounds in plasma and tissues of polar bears. Primo18, 24-27 May 2015, Trondheim, Oslo, Norway. Poster.
 286. Gebbink W, Bossi R, Rigét FF, Rosing-Asvid A, **Sonne C**, Dietz R (2015): Per- and polyfluoroalkyl substances, including PFOS and FOSA isomers and the PFOS replacement F-53B, in Greenland polar bears, ringed seals, and killer whales. FLUOROS 2015, July 12-14 2015, Golden, Colorado, USA. Poster presentation.
 287. Levin M, Meiman E, Jasperse L, Gebhard E, Bogomolni A, Acquarone M, Folkow L, Dietz R, **Sonne C**, De Guise S (2015): Effects on pinniped and mouse immune response upon in vitro exposure to the perfluorinated compounds, PFOA and PFOS. 46th Annual International Association for Aquatic Animal Medicine Meeting and Conference April 6-10, 2015 Chicago, Illinois, USA. Poster presentation.
 288. Nørregaard RD, **Sonne C**, Bach L, Geertz-Hansen O (2015): The use of shorthorn sculpins (*Myoxocephalus scorpius*) as a biomonitoring organism for biological effects around mining and metal impacted sites in Greenland SETAC Europe 25th Annual Meeting, 3-7 May 2015, Barcelona, Catalonia, Spain. Poster and oral presentation.
 289. Merkel FR, Mosbech A, **Sonne C** (2014): Contrasting feeding strategies among wintering common eiders linked to white-tailed sea eagle predation. 5th International Sea Duck Conference 2014, 8-12 September 2014, Reykjavík, Iceland. Oral presentation.

290. Mosbech A, Johansen KL, **Sonne C**, Strøm H (2014): Linkage of the King Eider population in Northeast Greenland: Migration, moult and discovery of a new offshore wintering area at Spitsbergenbanken. 5th International Sea Duck Conference 2014, 8-12 September 2014, Reykjavik, Iceland. Oral presentation.
291. Hjorth R, Letcher RJ, Blair D, Dietz R, **Sonne C**, Styrihave B (2014): The endocrine disruption properties of an adipose contaminant mixture extracted from East Greenland polar bears studied in the H295R cell line. SETAC Europe 24th Annual Meeting, 11-15 May 2014, Basel, Switzerland. Oral presentation.
292. Letcher RJ, McKinney MA, Tomy GT, **Sonne C**, Dietz R (2014): Alkylated perfluorinated sulfonamides, metabolism and the relationship to precursor and perfluoroalkyl sulfonate residues in arctic marine wildlife. Dioxin 2014, Europe, August 31-September 5, Madrid, Spain. Oral presentation.
293. Levin M, Meiman E, Jasperse L, Acquarone M, Folkow L, Dietz R, **Sonne C**, De Guise S (2014): Effects on pinniped immune response upon *in vitro* exposure to the perfluorinated compounds, PFOS and PFOA. Gordon Research Conferencen, Oceans & Human Health Anthropogenic - Impacts on Coastal Communities and Ecosystems, June 1-6 2014, Biddeford, ME, USA.
294. Rigét FF, Vorkamp K, Bossi S, **Sonne C**, Letcher RJ, Dietz R (2014): experiences from 20 years monitoring of POP in Greenland marine biota. Dioxin 2014, Europe, August 31-September 5, Madrid, Spain. Oral presentation.
295. **Sonne C** (2013): Why study wildlife health? Swedish University of Agricultural Sciences, 18 October 2013, Uppsala, Sweden. *Invited speaker*.
296. **Sonne C** (2013): Isbjørne – det unikke globale termometer. Rector and Dean Seminar at Aarhus University, 11 September 2013, Aarhus, Denmark. Oral presentation. *Invited speaker*.
297. **Sonne C** (2013): Wildlife Ecology studies: How/why measure stress and health? Wildlife Ecology Section seminar, 6 June 2013, Kalø, Denmark. *Invited speaker*.
298. **Sonne C**, Dietz R (2013): How animal health studies can be used as risk model for human health. ARC-Health workshop, 17-18 April 2013, Aarhus University, Aarhus, Denmark. *Invited speaker*.
299. **Sonne C**, Dietz R, Braune B, O'Hara TO, Scheuhammer T, Basu N (2013): The toxicological effects of mercury in Arctic biota: highlights from the AMAP "Mercury in the Arctic" assessment. The 11th ICMGP International Conference on Mercury as a Global Pollutant, 28 June to 2 August 2013, Edinburgh, Scotland. Oral presentation.
300. Bechshøft T, **Sonne C**, Meyer JS, Novak MA, Rigét FF, Eulawers I, Jaspers V, Covaci A, Letcher RJ, Dietz R (2013): Cortisol in polar bear hair; results and applications. 22nd International Conference on Bear Research and Management, September 15-20, 2013, Provo, Utah, USA. Oral presentation.
301. Greaves A, Letcher RJ, **Sonne C**, Dietz R, Born EW (2013): Tissue and intra-brain distribution of perfluoroalkyl carboxylates and sulfonates, and selected precursors and isomers in East Greenland polar bears. The 5th International Workshop on per- and polyflourinated alkyl substances. October 27-29 2013, Helsingør, Denmark. Poster presentation.
302. Dietz R, Rigét FF, Bossi R, **Sonne C**, Vorkamp K (2013): Trends and possible effects of PFCs in Arctic top predators. The 5th International Workshop on per- and polyflourinated alkyl substances. October 27-29 2013, Helsingør, Denmark. Oral presentation.
303. Bechshøft T, **Sonne C**, Meyer JS, Novak MA, Rigét FF, Eulaers I, Jaspers V, Covaci A, Letcher RJ, Dietz R (2013): Cortisol in polar bear hair; results and applications. IBA 22nd International Conference on Bear Research and Management, 15-20 September 2013, Utah, USA. Oral presentation.
304. Dietz R, Basu N, Braune B, O'Hara T, Outridge P, Rigét FF, Scheuhammer T, **Sonne C** (2013): Mercury increase and effects in Arctic marine mammals. The 2013 Biennial Marine Mammal Conference, 9 to 13 December 2013, Dunedin, New Zealand. Oral presentation.
305. Dietz R, **Sonne C**, Rigét FF, Gustavson K, Bechshøft TØ, Born EW, Bossi R, Grandjean P, McKinney MA, Derek CG Muir, Niladri Basu, Robert J. Letcher (2013): Isbjørnen som "Whistleblower" for den grænseoverskridende fourening. Dansk Havforskermøde, 21-23 January 2013, Roskilde, Denmark. Oral presentation.
306. Levin M, Gebhard E, Jasperse L, Dietz R, **Sonne C**, Bossi R, Letcher RJ, De Guise S (2013): East Greenland Polar Bear and Ringed Seal Immune Functions: Effects upon in vivo and in vitro toxicant exposure. Aquatic Animal Health in a Changing World - 44th Annual Conference of the International Association for Aquatic Animal Medicine, 21 to 26 April 2013, Sausalito, California. Oral presentation.
307. Sareisian L, Dehli Villanger G, Graupner A, **Sonne C**, Dietz R, Hylland K (2013): DNA damage in ringed seals (*Phoca hispida*) from East Greenland. Nordic Marine Science Conference (NMSC), 28-30 October 2013, Oslo, Norway. Poster presentation.
308. Vorkamp K, Rigét FF, Bossi R, **Sonne C**, Dietz R (2013): Recent decreases of some perfluorinated compounds and brominated flame retardants in the Arctic. SETAC Europe 23rd Annual Meeting, 12-16 May 2013, Glasgow, UK. Oral presentation.
309. **Sonne C** (2012): Isbjørne, miljøgifte, klima – og hva' så? Offentlige foredrag i Naturvidenskab, 24. September 2012, Århus Universitet, DK-8000 Århus, Denmark. *Invited speaker*.

310. Adams DH, **Sonne C**, Basu N. Effects of mercury on Florida marine fishes: current research and future directions. Indian River Lagoon Symposium, 9 February 2012, Tampa, Florida, USA. Oral presentation.
311. Basu N, Nam DH, **Sonne C**, Dietz R (2012): Methylmercury metabolism across six Arctic marine mammals – Intraspecies differences in exposure and neurotoxic risk. SETAC North America 33rd Annual Meeting, 11-15 November 2012, Long Beach, California, USA. Oral presentation.
312. Bechshøft TØ, **Sonne C**, Meyer JS, Novak MA, Henchey E, Rigét FF, Eulaers I, Jasper VB, Covaci A, Letcher RJ, Dietz R (2012): Cortisol in polar bear hair; results and applications. The 4th Norwegian Environmental Toxicology Symposium, 16-18 October 2012, Tromsø, Norway. Oral presentation.
313. Bechshøft TØ, **Sonne C**, Meyer JS, Novak MA, Henchey E, Rigét FF, Eulaers I, Jasper VB, Covaci A, Letcher RJ, Dietz R (2012): Cortisol in polar bear hair; results and applications. IPY 2012 Conference Montréal, 22-27 April 2012, Montréal, Canada. Oral presentation.
314. Dietz R, Rigét FF, **Sonne C**, Gustavson K, Bechshøft TØ, Bossi R, Born EW, Grandjean P, Muir DCG, McKinney MA, Letcher RJ (2012): The East Greenland polar bear (*Ursus maritimus*) as a messenger of global temporal contaminant trends. IPY 2012 Conference Montréal, 22-27 April 2012, Montréal, Canada. Oral presentation.
315. Erdmann SE, Dietz R, **Sonne C**, Bechshøft TØ, Letcher RJ, Long M, Vorkamp K, Bonefeld-Jørgensen EC (2012): Xenoestrogenicity of the combined mixture of Persistent Organic Pollutants in blood of East Greenland Polar Bears (*Ursus maritimus*). IPY 2012 Conference Montréal, 22-27 April 2012, Montréal, Canada. Poster presentation.
316. Greaves AK, Letcher RJ, **Sonne C**, Dietz R, Born EW (2012): Perfluoroalkyl acid tissue distribution and perfluorooctane sulfonate isomer patterns in East Greenland polar bears (*Ursus maritimus*). IPY 2012 Conference Montréal, 22-27 April 2012, Montréal, Canada. Oral presentation.
317. McAdam LS, Villanger GD, Graupner A, **Sonne C**, Dietz R, Hylland K (2012): DNA damage in ringed seal (*Phoca hispida*) from east Greenland. The 4th Norwegian Environmental Toxicology Symposium, 16-18 October 2012, Tromsø, Norway. Poster presentation.
318. McKinney MA, Iverson SJ, Rigét FF, **Sonne C**, Born EW, Bechshøft T, Muir DCG, Letcher RJ, Rosing-Asvid A, Dietz R (2012): Long-term trends in East Greenland polar bear diets and the consequences for exposure to persistent organic pollutants. IPY 2012 Conference Montréal, 22-27 April 2012, Montréal, Canada. Oral presentation.
319. Routti H, Letcher RJ, Born EW, Branigan M, Dietz R, Evans TJ, McKinney MA, Peacock E, **Sonne C** (2012): Influence of food web on spatial variation of mercury in polar bears (*Ursus maritimus*). IPY 2012 Conference Montréal, 22-27 April 2012, Montréal, Canada. Poster presentation.
320. Villanger GD, Kovacs KM, Lydersen C, Skaare JU, Lie E, **Sonne C**, Dietz R, Letcher RJ, Gabrielsen KM, Jenssen BM (2012): The mixture effects of organohalogen contaminants on thyroid hormone balance in marine mammals from the European Arctic. The 4th Norwegian Environmental Toxicology Symposium, 16-18 October 2012, Tromsø, Norway. Oral presentation.
321. **Sonne C**, Letcher RJ, Bechshøft TØ, Rigét FF, Muir DCG, Leifsson PS, Born EW, Hyldstrup L, Basu N, Kirkegaard M, Dietz R (2011): Biomonitoring polar bear health in Greenland: A messenger for global pollution and environmental changes. NKVet Symposium, 6-7 October 2011, Helsinki, Finland. **Invited speaker**, oral presentation.
322. Therkildsen OR, Alstrup AKO, **Sonne C** (2011): Paralytic syndromes in wild birds. NOWAC, 24-28 October 2011, Öster Malma, Sweden.
323. Bechshøft T, **Sonne C**, Dietz R, Jakobsen J, Meyer JS, Novak MA, Henchey E, Rigét FF, Born EW, Eulaers I, Jaspers V, Covaci A, Letcher RJ (2011): Vitamin A and E biomarkers of POP exposure in East Greenland polar bears (*Ursus maritimus*). 19th biennial Conference on the Biology of Marine Mammals, November 26-December 2 2011, Tampa, Florida, USA. Oral presentation.
324. Dietz R, Rigét FF, **Sonne C**, Born EW, Bossi R, Gustavson K, Bechshøft TØ, Grandjean P, McKinney MA, Muir DCG, Letcher RJ (2011): The East Greenland polar bear as a messenger of global temporal contaminant trends. 19th biennial Conference on the Biology of Marine Mammals, November 26-December 2 2011, Tampa, Florida, USA. Oral presentation.
325. Greaves AK, Letcher RJ, **Sonne C**, Dietz R, Born EW (2011): Brain region and tissue distribution and patterns of bioaccumulative perfluoroalkyl acids (PFAAs) in highly exposed East Greenland polar bears. SETAC North America 32nd Annual Meeting, 13-17 November 2011, Boston, USA. Poster presentation.
326. Jaspers VLB, Rodriguez FS, Herzke D, Boertmann D, **Sonne C**, Dietz R, Covaci A, Eens M (2011): Distribution of POPs and PFCs in tissues of white tailed eagles (*Haliaeetus albicilla*) from Greenland. Dioxin Conference, 21-25 August 2011, Brussels, Belgium. Poster presentation.
327. Herzke D, Jaspers VLB, Rodriguez FS, Boertmann D, Lars M. Rasmussen, **Sonne C**, Dietz R, Covaci A, Bustnes, JO (2011): PFCs in feathers of white tailed eagles (*Haliaeetus albicilla*) from Greenland and Norway; usefull for non-destructive sampling? Dioxin Conference, 21-25 August 2011, Brussels, Belgium. Poster presentation.

328. **Sonne C**, Letcher RJ, Rigét FF, Leifsson PS, Hyldstrup L, Bechshøft TØ, Born EW, Muir DCG, Dietz R (2011): Temporal trends of organohalogen contaminants, mercury and their potential health impacts on East Greenland polar bears (*Ursus maritimus*). AMAP Conference, 4-6 May 2011, Copenhagen, Denmark. **Invited speaker**, oral presentation.
329. Bechshøft T, **Sonne C**, Dietz R, Jakobsen J, Meyer JS, Novak MA, Henchey E, Rigét FF, Born EW, Covaci A, Eulaers I, Jaspers V, Letcher RJ (2011): Biomarkers of POP exposure in East Greenland polar bears (*Ursus maritimus*). AMAP Conference, 4-6 May 2011, Copenhagen, Denmark. Poster presentation.
330. Dietz R, Basu N, Braune B, O'Hara TM, Scheuhammer T, **Sonne C** (2011): What are the toxicological effects of mercury on Arctic biota? AMAP Conference, 4-6 May 2011, Copenhagen, Denmark. Poster presentation.
331. Letcher RJ, McKinney MA, Aars J, Born EW, Branigan M, Choy E, Dietz R, Evans TJ, Gabrielsen GW, Muir DCG, Peacock E, **Sonne C** (2011): Region-specific influence of diet relative to other factors on the spatial trends of chlorinated, brominated and fluorinated POPs in polar bears (*Ursus maritimus*). AMAP Conference, 4-6 May 2011, Copenhagen, Denmark. Oral presentation.
332. Letcher RJL, McKinney MA, Tomy GT, Chu S, Dietz R, **Sonne C**, Muir DCG, Butt CM, De Guise S (2011): Differential perfluorooctane sulfonate (PFOS) levels in Arctic marine top predators and the influence of biotransformation of PFOS precursors (or "PreFOS"). AMAP Conference, 4-6 May 2011, Copenhagen, Denmark. Poster presentation.
333. Styrihane B, Dietz R, **Sonne C**, Letcher RJ, Hansen M (2011): Basal steroid levels in plasma from P and F1 generations of Greenland sledge dogs, *Canis familiaris*, during exposure to POPs in the diet. AMAP Conference, 4-6 May 2011, Copenhagen, Denmark. Poster presentation.
334. Nam DH, **Sonne C**, Dietz R, Maiuri A, Basu N (2011): Mercury exposure and neurotoxic risk in three arctic marine mammals. The 10th International Conference on Mercury as a Global Pollutant (ICMGP), July 24-29 2011, Halifax, Nova Scotia, Canada. Oral presentation.
335. Roland Therkildsen O, Kjær Christensen T, **Sonne C** (2011): A review of disease occurrence and population effects in the common eider (*Somateria mollissima*). The IUGB Congress (International Union of Game Biologists) and Perdix XIII, 5th-9th September 2011, Barcelona, Spain. Oral presentation.
336. **Sonne C**, Kjelgaard-Hansen MJ, Jensen AL, Rigét FF (2010): The follow up study on Sonne et al. (2010). 2010. BCCPs and organohalogen contaminant concentrations in chicks of three raptor species from Northern Norway – yearly oscillations and species differences. Raptor workshop, 6-7 December 2010, Tromsø, Norway. Oral presentation.
337. **Sonne C**, Alstrup AKO, Therkildsen OR (2010): Review of paralytic disease in wild birds. Thiamine consultant meeting, Swedish EPA, Stockholm, 10. November 2010. Oral presentation.
338. **Sonne C**, Rosing-Asvid A, Nielsen SP, Bechshøft TØ, Dietz R (2010): Afgivelser og sygdomme i Grønlands fangst dyr og mulige årsager. Focus: Avanersuaq. Borgermøde, Qaanaaq, 24. August 2010.
339. **Sonne C**, Letcher RJ, Bustnes JO, Dietz R, Jenssen BM, Jørgensen EH, Verreault J, Vijayan MM, Gabrielsen GW, Born EW, Basu N (2010): An overview of the potential health effects in Arctic wildlife from exposure to long-range transported pollutants. International polar year Oslo science Conference, 8-12 June 2010, Oslo, Norway. Poster.
340. **Sonne C** (2010): Under the skin of the big Arctic predator: Focus on environmental pollutants, bone system and reproductive organs in the East Greenland polar bear (*Ursus maritimus*). Lecture in master course Arctic biology, Copenhagen University, June 1st 2010. Oral presentation.
341. **Sonne C** (2010): Under huden på det store arktiske rovdyr: Fokus på miljøgifte, knoglesystem og reproduktionsorganer hos den østgrønlandske isbjørn. Lecture in master course for MD Arctic medicine, Aarhus University, March 30th 2010. Oral presentation.
342. Aubail Aurore, Dietz R, Rigét FF, **Sonne C**, Wiig Ø, Caurant F (2010): Temporal trends of mercury and stable isotopes in polar bears (*Ursus maritimus*) from Svalbard using teeth as iomonitors. International polar year Oslo science Conference, 8-12 June 2010, Oslo, Norway. Poster.
343. Bechshøft TØ, **Sonne C**, Dietz R, Born EW, Novak MA, Henchey E, Meyer JS (2010): Cortisol levels in hair of East Greenland polar bears: A pilot study. International polar year Oslo science Conference, 8-12 June 2010, Oslo, Norway. Poster.
344. Dietz R, Rigét FF, Forchhammer MC, **Sonne C**, Aubail A, Born EW, Aars J, Andersen M, Wiig Ø, Skaare JU, Basu N, Drimmei R, Grandjean P (2010): Spatio-temporal trends of Hg in polar bears (*Ursus maritimus*) hair from Greenland and Svalbard linked to climate change parameters and stable isotopes. International polar year Oslo science Conference, 8-12 June 2010, Oslo, Norway. Oral presentation.
345. Eulaers I, Covaci A, Herzke D, Eens M, Halley DJ, **Sonne C**, Moum T, Schnug L, Hanssen SA, Ims RA, Johnsen T, Bustnes JO, Jaspers VLB (2010): Nestling predatory bird feathers as a non-destructive biomonitor for persistent organic pollutants in northern ecosystems. Berlin Workshop EU Environmental Specimen Banks, Berlin, Germany, 21-22 June 2010. Poster presentation.

346. Jenssen BM, Villanger GD, Smette EI, Letcher RJ, **Sonne C**, Dietz R (2010): The association between the complex mixtures of organohalogen compounds and circulating testosterone in polar bears (*Ursus maritimus*). European Society of Comparative Physiology and Biochemistry, 27th meeting, Alessandria, Italy, September 5-9, 2010. Poster presentation.
347. Letcher RJ, McKinney MA, Chu SG, Tomy GT, Dietz R, **Sonne C**, De Guise S (2010): Sources of differential levels of perfluorooctane sulfonate (PFOS) among arctic marine top predators and the role of PFOS precursor biotransformation. SETAC North America, 31st annual meeting, Portland, Oregon, USA, 7-11 November 2010. Oral presentation.
348. Letcher RJL, McKinney MA, Tomy GT, Chu SG, Dietz R, **Sonne C**, Muir DCG, Butt C, De Guise S (2010): Differential perfluorooctane sulfonate (PFOS) levels in Arctic marine top predators and the influence of biotransformation of PFOS precursors (or "PreFOS"). SETAC North America 2010 Conference, November 7-11, 2010, Portland, OR, U.S.A. Oral presentation.
349. Mosbech A, Johansen K, Frederiksen M, Merkel F, Boertmann D, Falk K, Linnebjerg JF, **Sonne C** (2010): The year-round migration pattern of thick-billed murre breeding in W and NW Greenland tracked with satellite transmitters and geolocators. 1st World Seabird Conference September 7-11, 2010, Victoria, Canada. Poster.
350. Wong CS, Ross MS, Letcher RJ, McKinney MA, **Sonne C**, Dietz R (2010): Comparison of the enantiomer distribution of chiral organochlorine contaminants in captive West Greenland sledge dogs and East Greenland polar bears. 10 American Chemical Society, March 21-25, San Francisco, California 2010.
351. **Sonne C**, Dietz R (2009): Forurening i Arktis. Monitoring af niveauer og effekter i arktiske rovdyr. Miljø og Sundhed, 15. årgang, supplement 1, oktober 2009, side 51-56. Article.
352. **Sonne C**, Jensen AL (2009): Blood clinical-chemical parameters and organohalogen contaminant concentrations in chicks of three raptor species from Northern Norway. Workshop, Tromsø 18.-20. February, 2009. Oral presentation.
353. **Sonne C** (2009): High-light brief summary of some of the international PB health work in (East) Greenland since last Seattle meeting June 2005. 15th Working Meeting of the IUCN/SSC Polar Bear Specialist Group, 29 June-3 July 2009, Copenhagen, Denmark. Oral presentation. *Invited speaker*.
354. Maiuri AR, **Sonne C**, Dietz R, Basu N (2009): Distribution of mercury in the polar bear (*Ursus maritimus*) brain. 9th International Conference on Mercury as a Global Pollutant 2009, Guiyang, China, June 7-12 2009. Poster.
355. Aubail A, Dietz R, Rigét FF, **Sonne C**, Caurant F (2009): Accumulation of mercury in teeth of ringed seals (*Phoca hispida*) and polar bears (*Ursus maritimus*) from Greenland: temporal and geographical variations. 9th International Conference on Mercury as a Global Pollutant 2009, Guiyang, China, June 7-12 2009. Poster.
356. Dietz R, Rigét FF, Forchhammer M, **Sonne C**, Aubail A, Born E, Aars J, Andersen M, Øystein W (2009): Temporal and geographical trends of Hg in polar bears (*Ursus maritimus*) hair linked to health effect levels and climate change parameters. 9th International Conference on Mercury as a Global Pollutant 2009, Guiyang, China, June 7-12 2009. Poster.
357. Adams DH, **Sonne C**, Basu N, Nam D, Dietz R, Leifsson PS, Jensen AL (2009): Potential effects of mercury on Florida marine fish populations: liver, kidney, blood, and nervous system health. SETAC North America SETAC North America 30th Annual Meeting, New Orleans, Louisiana, USA, 19-23 November 2009. Poster.
358. McKinney MA, Dietz R, **Sonne C**, Letcher RJ (2009): Comparative hepatic microsomal metabolism of PBDE (including BDE209) and DBDPE flame retardants in top predators of the arctic marine food web: polar bears, beluga whales and ringed seals. SETAC North America SETAC North America 30th Annual Meeting, New Orleans, Louisiana, USA, 19-23 November 2009. Poster.
359. Ross MS, Letcher RJ, McKinney, **Sonne C**, Dietz R, Wong CS (2009): Comparison of the chiral distribution of several enantiomeric organochlorine contaminants in blubber fed captive West Greenland sledge dogs and East Greenland polar bears. SETAC North America SETAC North America 30th Annual Meeting, New Orleans, Louisiana, USA, 19-23 November 2009. Poster.
360. Jaspers VLB, Dietz R, **Sonne C**, Letcher RJ, Eens M, Neels H, Born EW, Covaci A (2009): Relationships of OCs and PBDEs in hair, soft tissues and blood from East Greenland polar bears. 29th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2009) will be held on August 23-28, 2009 in Beijing, China. Poster presentation.
361. Dietz R, **Sonne C** (2009): Biomonitoring i grønlandske havpattedyr: Niveauer og effekter. Temadag om biomonitoring, Sundhedsstyrelsens Rådgivende Videnskabelige Udvalg for Miljø og Sundhed, 28. oktober, Eigtveds Pakhus, København. Oral presentation.
362. Dietz R, Rigét FF, **Sonne C**, Letcher FJ, McKinney MA, Muir DCG, Bossi R, Vorkamp K, Born EW (2008): Temporal trends and bioaccumulation of selected contaminants in East Greenland ringed seals and polar bears. 5th World Congress of the Society of Environmental Toxicology and Chemistry, Sydney,

- Australia Aug. 3-7 2008. Oral presentation.
363. Letcher R, Verreault J, Maisonneuve F, **Sonne C**, Dietz R (2008): Comparative fate of PBDEs, HBCD and hydroxylated PBDEs in relation to diet, age, generation and xenobiotic-metabolizing enzyme activities in captive West Greenland sled dogs. 10th BFR Workshop, Victoria, B.C., June 3-4, 2008. Oral presentation.
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413. **Sonne-Hansen C**, Brimer L (1999): Tungmetaller i Arktis. KVL Mosaik 12:10-11.

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Personal details and contact information. Most CVs start with contact information and personal data but take care to avoid superfluous details, such as religious affiliation, children's names, and so on. Education and qualifications. Be sure to include the names of institutions and dates attended in reverse order: Ph.D., Masters, Undergraduate. Work experience/employment history. The most widely accepted style of employment record is the chronological curriculum vitae. Your career history is presented in reverse date order starting with the most recent appointment. More emphasis/informati...