**Curriculum vitae**

**Personal information**

Family name, First name: Nymo, Ingebjørg Helena

Date of birth: 29.08.1980

Sex: Female

Nationality: Norwegian

Address: Anna Eides vei 25, 9012 Tromsø, Norway

E-mail: ingebjorg.nymo@vetinst.no

Orcid ID: <https://orcid.org/0000-0002-4844-8344>

Google scholar profile: <https://scholar.google.com/citations?user=p6qrTTkAAAAJ&hl=en>

Institutional webpage: <https://www.vetinst.no/ansatte/ingeborg-helena-nymo>

**Education**

2009 – 2013 PhD from The Norwegian School of Veterinary Science (NVH), Section for Arctic Veterinary Medicine (SAV), Tromsø, Norway. Title: *Brucella pinnipedialis* in hooded seals(*Cystophora cristata*): infection biology and effect of PCB 153 exposure under experimental conditions.

2002 – 2008 Cand. med. vet. with specialization in husbandry animal medicine at NVH. Master thesis: “Serological screening for Pestivirus in semi-domesticated reindeer (*Rangifer tarandus tarandus*) in Finnmark County, Norway.”

**Main current position**

2020 – Now Senior researcher at NVI, Tromsø, Norway.

**Other current positions**

2022 – Now Associate Professor at UiT The Arctic University of Norway, Arctic Biology (AAB)

2022 – Now Norwegian marine mammal advisory board participant.

2022 – Now Veterinarian at The Norwegian Reindeer Health Advisory Service

2021 – Now Arctic Monitoring and Assessment Program (AMAP) expert on climate sensitive infections.

**Leave of absence**

2016 – 2017 Maternity leave

**Previous positions**

2017 – 2021 Responsible veterinarian at the aquarium Polaria, Tromsø, Norway.

2019 – 2020 Responsible veterinarian at the wildlife animal facilities at UiT, AAB, Tromsø, Norway.

2016 – 2020 Researcher at the NVI, Tromsø, Norway.

2014 – 2016 Post-doctoral researcher at UiT, Arctic Infection Biology (AIB) working on infectious diseases in Arctic wildlife.

2016 Researcher at UiT, AIB, on a project on communication of research results on health and diseases in reindeer, to reindeer herders. Responsible for organizing the project and participating in lecturing for reindeer herders (2 months).

2015 – 2016 Researcher at UiT, AIB, on the Climate and Reindeer Diseases project (CARD) working on establishing RT-PCR techniques for quantification of Herpesvirus and *Pasteurella* in reindeer. Responsible for organizing and conducting all field activity (4 months).

2014 Working at UiT, AIB, on the project “Arctic toolbox” to evaluate alterations in cytokine genes expression in glaucous gull and correlate these alterations with the levels of pollutants in the same animals (1 month).

2013 Post-doctoral researcher at NVH/SAV (4 months).

2008 Small animal veterinarian at Grimstad Animal Clinic, Grimstad, Norway (6 months).

2007 Small animal veterinarian at Stend Animal Clinic, Bergen, Norway (2 months).

**international laboratory training**

2015 Unidad de Sanidad Animal, Gobierno de Aragón (CITA), Spain. Extraction of primary bone marrow derived macrophages from mice and *in vitro* infection with *Brucella microti* (2 months)

2014 CITA, Spain. Characterization of *in vivo* cytokine response in mice following experimental infection with brucellae (2 months).

2013 CITA, Spain. Experimental infection of mice with brucellae (2 months).

2012 SAC Veterinary Science Division, Inverness, UK. Isolation of *B. pinnipedialis* from pinniped organ samples and participation in the Marine Mammal Stranding Scheme (2 months).

2009 FUNDP University of Namur, Department of Veterinary Medicine, Belgium. Introduction to working with *Brucella* spp. and macrophages (1 month).

2009 CODA-CERVA Veterinary and Agrochemical Research Centre, Brussels, Belgium. BSL-3 and bacteriology training with *Brucella* spp. (1 month).

**national laboratory training**

2017 – 2018 NVI, Oslo, Norway. Pathology and histology training (5 weeks).

2012 NVH, Section of Pharmacology and Toxicology, Oslo, Norway. Extraction and quantification of PCB (1 month).

2011 NVI, Oslo, Norway. Experimental infection of PCB exposed mice with *Brucella* spp. (4 months).

**Courses**

2020 From idea to project, SEVU, 5 ECTS.

2019 Basic training in laws regulating the governmental sector, The Norwegian Association of Researchers, 3 days.

2017 Basic microscopy, Denton Mikroskopi, NVI, 1 day.

2016 Chemical and physical capture of Scandinavian Mammals, Hedmark University of Applied Sciences (INN), Evenstad, Norway, 2,5 ECTS.

2016 Leadership skills, UiT, 2 ECTS.

2015 Arctic Frontiers Emerging Leaders for the Arctic challenge, Bodø/Tromsø, Norway, 1 week.

2010 Introduction to biomedical research, NVH, 5 ECTS.

2010 Introduction to biostatistics, NVH, 10 ECTS.

2009 FELASA Level B course for scientists in Laboratorial Animal Science and Experimentation, NVH, 6 ECTS.

2009 Third European Wildlife Disease Association Student Workshop on the theme Infectious Diseases at the Wildlife/Domestic Animal/Human Interface, Veyrier-du-Lac, France, 1 week.

**Laboratory expertise**

Various serological techniques (both establishing new techniques and performing already established protocols). Extraction of DNA and RNA. Conventional PCR and real time quantitative PCR for pathogens and gene expression studies. BioRad BioPlex Cytokine Assay. General bacteriology. Necropsies of a wide range of domestic, semi-domestic and wild mammals. Basic histology. Extensive BSL-3 training (bacteriology, animal models, *in vitro* cell models). *In vitro* cell work, including infections. Extensive experience with various animal models (see separate section).

**Animal experimental work**

2020 – now Establishment of the pharmacokinetic properties of LongRange® (eprinomectin) in reindeer with the propose of using the drug against brain worm infection in reindeer (participant).

2018 – 2019 Immunological responses during natural *Hypoderma tarandii* infection in reindeer calves (responsible).

2016 Experimental infection of semi-domesticated reindeer with cervid herpesvirus and *Moraxella bovoculi* (participant).

2016 Experimental infection of cod kept at different temperatures with *Brucella pinnipedialis* (responsible).

2015 Experimental infection of cod (pilot study) with *Brucella pinnipedialis* (responsible).

2013 Experimental infection of mice with brucellae (participant).

2011 Concurrent infection of mice with brucellae and exposure to PCB 153 (responsible).

**Field experience**

2004 – now Organized and participated in numerous field expeditions with semi-domesticated reindeer in the field; for screening purposes, health assessment, during disease outbreaks (e.g. infectious keratoconjunctivitis, necrobacillosis, parapox, cobber toxicity) and with the purpose of choosing animals for experimental work. I have also organized and participated in numerous fieldworks with semi-domesticated reindeer in stationary and mobile slaughterhouses.

2017 – 2018 Participated in the sampling of wild Icelandic reindeer for UiT (3 weeks/year).

2016 Veterinarian during moose capture in northern Sweden for the Swedish University of Agricultural Sciences. Biological samples, rectal palpation for pregnancy diagnostics (2 weeks).

2015 Collection of insects for the Climate and Reindeer Diseases project for evaluation of vector-borne diseases in semi-domesticated reindeer in Norway (4 weeks).

2010 Responsible veterinarian for field anesthesia of harbor seals in Finnmark, Norway for the Institute of Marine Research, Tromsø, Norway (2 weeks).

2010 Organization and sampling of hooded seals during scientific seal hunting on the research vessel “Jan Mayen” in the West-Ice (3 weeks).

2009 Organization and sampling of hooded and harp seals during commercial seal hunting on the seal hunting vessel “Kvitungen” in the West-Ice (6 weeks).

**Successful applications for funding**

2021 – now NFR. Researcher Project for Scientific Renewal. Animal welfare, behaviour, health and sustainability – the effects of feeding on reindeer and reindeer herding. Kr 12 556 000 (co-applicant).

2020 – 2021 Fram Centre Terrestrial flagship «Effects of climate change on terrestrial ecosystems, landscapes, society and indigenous people» One Health Concerns in Northern Communities and how climate change mitigation may impact reindeer health and traditional reindeer herding in Norway. Kr 727 000 (co-applicant).

2020 – 2021 Forskningsmidlene for jordbruk og matindustri (FFL/JA) forprosjekt. Parasitter på hjernen – et klimaproblem for rein (ReinBrain). Kr 585 000 (co-applicant).

2020 – 2021 Regionalt forskningsfond Trøndelag forprosjekt. Klimasyk rein. Kr 1 215 892 (co-applicant).

2019 Regionalt forskningsfond Nord forprosjekt. Effekt av klorpyrifos på akuttfaseresponsen hos torsk. Kr. 549 000 (co-applicant).

2017 – 2019 Reindriftens Utviklingsfond (RUF). Reindeer immune response against *Hypoderma tarandii*. Kr. 827 000 (main applicant).

2016 RUF. Communication of research results to reindeer herders on health and diseases in reindeer. Kr. 543 000 (co-applicant).

2016 RUF. Travel grant for attendance at Arctic Ungulates. Kr. 18 050 (main applicant).

2016 Norsk institutt for naturforskning (NINA). Travel grant for attendance at Arctic Ungulates 2015. Kr. 5 000 (main applicant).

2015 – 2017 Reindriftens Utviklingsfond (RUF). Infectious keratokonjunctivitis in reindeer. Kr. 981 000 (co-applicant).

2015 UiT. Travel grant for tenure at Tenure at Unidad de Sanidad Animal, CITA, Gobierno de Aragón. Kr. 12 000 (main applicant).

2015 UiT. Travel grant for visiting researcher. Kr. 7 000 (main applicant).

2014 Norsk forskningsråd (NFR). Grant for participation to Arctic Frontiers Emerging leaders for the Arctic challenge. Kr. 30 000 (main applicant).

2014 Rangifer health network. Participation to the 2014 Wildlife Disease Association Conference. Kr. 20 000 (main applicant).

2012 – 2014 Reindriftens Utviklingsfond (RUF). Infectious diseases in reindeer in coastal areas – variations with climatic changes. Kr. 1 815 000 (co-applicant).

2011 Astri og Birger Torsteds legat til fordel for dyrene. Screening for anti-*Brucella* antibodies in hooded seals. Kr. 20 000 (main applicant).

2011 NVH. Tenure at the Scottish Agricultural College (SAC), Inverness Veterinary Centre. Kr. 45 000 (main applicant).

2010 Astri og Birger Torsteds legat til fordel for dyrene. Does *Brucella pinnipedialis* affect the reproduction in hooded seal (*Cystophora cristata*)? Kr. 40 000 (main applicant).

2009 NVH. Travel grant for tenure at the CODA-CERVA Veterinary and Agrochemical Research Centre in Brussels, and at FUNDP University of Namur, The Department of Veterinary Medicine. Kr. 35 000 (main applicant).

**Supervision of students**

2022 – now Co-supervisor for master student Silje Helgesson, UiT. Topic: Physiological adaptations for ultra-endurance in long-distance sled dogs.

2014 – 2019 Co-supervisor for PhD student Javier Sanchez Romano, UiT. Topic: Infectious keratoconjunctivitis in semi-domesticated Eurasian tundra reindeer.

2017 – 2018 Co-supervisor for master student Sandra Núñez Egido, UiT/Norwegian Polar Institute (NPI). Topic: Antarctic seals – potential pathogens and diseases.

2016 – 2017 Co-supervisor for master student Sophie Scotter, UiT/NPI. Topic: Sources of dietary contaminant exposure and relationships with pathogen prevalence in Atlantic walruses (*Odobenus rosmarus rosmarus*) from Svalbard, Norway.

2012 Co-supervisor for bachelor student Benjamin Briquemont, NVH/University of Louvain-la-Neuve. Topic: Marine mammal *Brucella* spp. in cell models.

2011 Co-supervisor for bachelor student Hege Aukrust, NVH/UiT. *Brucella* spp. in marine mammals.

**Lecturing at university level**

2021 Planning, arranging and lecturing on the master levels course “MAOK4145-1 21V Wildlife Population Health”, INN (ca. 100 hours)

2020 – now Lecturing, “Biomedicin 6EV175”, INN (ca. 5 hours/year).

2015 – now Lecturing, “Chemical and physical capture of Scandinavian Mammals”, INN (ca. 8 hours/year).

2018 – 2020 Lecturing, “BIO-1105 Introduction to Biology”, UiT (ca. 5 hours/year).

2016 – 2017 Lecturing, “Safety in the laboratory and on sea and land expeditions”, UiT (ca. 2 hours/year).

2014 Lecturing, “Nordic Zoo, Wildlife and Conservation Medicine” NOVA-course, Skibotn Field Station, Norway (ca. 3 hours).

**Industry-oriented communication and presentations**

2017 – now Invited to participate in multiple meetings in the Sami Reindeer Herder´s Association of Norway to present regarding Chronic Wasting Disease and reindeer diseases.

2016 - now Multiple presentations to reindeer herders throughout Norway regarding health and disease in reindeer through various projects.

**Institutional responsibilities**

2019 – 2021 Regular writer for Nationen, Faglig Snakka

2019 – now Regular writer for the internal NVI blog “News from the North”.

2018 – 2020 Member of The NVI board for The Norwegian Association of Researchers.

2017 – 2018 Part of project group at NVI for development of regional laboratories.

2015 Vara representative at the Faculty board at the Faculty of Biosciences, Fisheries and Economics, UiT.

**Leadership experience**

2016 Two ECTS course at UiT in “Leadership skills”

2016 Organized and lead a project on communication of research results on reindeer health and diseases to reindeer herders.

2014 Part of the organizing committee of the master course “Nordic Zoo, Wildlife and Conservation Medicine” at Skibotn Field Station, Norway.

2004 – 2017 Organized and lead numerous field expeditions on semi-domesticated reindeer (both in the field and in slaughterhouses) and seals (both commercial hunt and scientific hunt).

**Information and communications technology skills**

Ample experience with data management in Excel. Also skilled in desktop publishing, included MS PowerPoint, MS Word and print settings. Very experienced with how to use word processing technology and very good at written and visual communication. Experience with meetings and lecturing using online collaboration tools included Skype, Zoom, GoToMeeting, Instant Messaging, Google Docs, Canvas and various file sharing tools. Very experienced with e-mail management and setup, included calendar management. Good skills in online research and social media management. Experience using smartphones and tablets.

**Peer reviewed articles and short communications**

Citations (all): 754

h-index (all): 18

i10-index (all): 25

Source: <https://scholar.google.com/citations?hl=en&user=p6qrTTkAAAAJ> (04.01.23.)

**2023**

Grimholt, Lukacs, **Nymo**, Madslien, Våge, Veiberg, Rolandsen, Bøe, Sundaram. Functional immune diversity in reindeer reveals a high Arctic population at risk. Frontiers in Ecology and Evolution, section Evolutionary and Population Genetics 2023.

**Nymo**, Siebert, Baechlein, Postel, Breines, Lydersen, Kovacs, Tryland. [Pathogen exposure in white whales (](https://www.mdpi.com/2076-0817/12/1/58)*[Delphinapterus leucas](https://www.mdpi.com/2076-0817/12/1/58)*[) in Svalbard, Norway](https://www.mdpi.com/2076-0817/12/1/58). Pathogens 2023, 12 (58). doi: https://doi.org/10.3390/pathogens12010058.

Davidson, Fæste, Uhlig, Tukun, Lian, Solvang, Thorvaldsen, Folkow, Sánchez Romano, Kilvær, Holmgren, **Nymo**. [Pharmacokinetics of a long-acting subcutaneous eprinomectin injection in semi-domesticated reindeer (*Rangifer tarandus tarandus*) – a pilot study](https://pubmed.ncbi.nlm.nih.gov/36535586/). Environmental Toxicology and Pharmacology 2023, 97. doi: 10.1016/j.etap.2022.104041.

**2022**

Tryland, Sánchez Romano, **Nymo**, Mørk, Þórarinsdóttir, Breines, Li, Cunha, Thórisson. A screening for virus infections among wild Eurasian tundra reindeer (*Rangifer tarandus tarandus*) in Iceland, 2017-2019. Revised version submitted to Viruses December 2022.

Lamsal, Tryland, Paulsen, Sánchez Romano, **Nymo**, Stiasny, Edgar, Soleng, Vikse, Andreassen. Serological screening for tick-borne encephalitis virus in eight Norwegian herds of semi-domesticated reindeer (*Rangifer tarandus tarandus*). Revised version submitted to Zoonosis and public health August 2022.

**Nymo**, Fuglei, Mørk, Breines, Holmgren, Davidson, Tryland. [Why are Svalbard arctic foxes *Brucella* spp. seronegative?](https://polarresearch.net/index.php/polar/article/view/7867) Polar Research 2022, 41.

Shakya, Tryland, Vikse, Sánchez Romano, Åsbakk, **Nymo**, Mehl, Evander, Ahlm, Vapalahti, Lwande, Putkuri, Johansen, Soleng, Edgar, Andreassen. [Inkoo and Sindbis viruses in mosquitoes, and a serological study for Inkoo virus in semi-domesticated Eurasian tundra reindeer in Norway](https://pubmed.ncbi.nlm.nih.gov/35659694/). Virology Journal 2022, 19 (1).

**2021**

Rinaldo, **Nymo**, Sánchez Romano, Breines, Ancin Murguzur, Tryland. [Serological evidence of hepatitis E virus infection in semi-domesticated Eurasian tundra reindeer (*Rangifer tarandus tarandus*) in Norway](https://www.mdpi.com/2076-0817/10/12/1542). Pathogens 2021, 10 (12).

Tryland, Sánchez Romano, **Nymo**, Breines, Ancin-Murguzur, Kjenstad, Li, Cunha. [A screening for virus infections in eight herds of semi-domesticated Eurasian tundra reindeer (*Rangifer tarandus tarandus*) in Norway, 2013-2018](https://doi.org/10.3389/fvets.2021.707787). Frontiers in Veterinary Science, section Veterinary Infectious Diseases 2021.

**2020**

Núñez-Egido, Lowther, **Nymo**, Klein, Breines, Tryland. [Pathogen exposure surveillance in Southern Ocean pinnipeds](https://polarresearch.net/index.php/polar/article/view/3841). Polar Research 2020, 39.

das Neves, Wensman, **Nymo**, Skjerve, Alenius, Tryland. [Pestivirus infections in semi-domesticated Eurasian tundra reindeer (*Rangifer tarandus tarandus*): A retrospective cross-sectional serological study in Finnmark County, Norway](https://munin.uit.no/handle/10037/17165?show=full). Viruses 2020, 12 (1).

**2019**

Sanchez Romano, Grund, Obiegala, **Nymo**, Ancin-Murguzur, Li, Król, Pfeffer, Tryland. [A multi-pathogen screening of captive reindeer (*Rangifer tarandus*) in Germany based on serological and molecular assays](https://www.frontiersin.org/articles/10.3389/fvets.2019.00461/full). Frontiers in Veterinary Science, section Zoological Medicine 2019, 6.

Omazic, Aurosell, Fedorov, Hagström, Kantanen, Leijon, Mørk, Nordtun, **Nymo**, Þórisson, Reilas, Rockström, Sánchez Romano, Thorarinsdottir, Tryland, Wensman, Albihn. [Seroprevalence of Pestivirus in Fennoscandian, Russian and Icelandic reindeer](https://www.tandfonline.com/doi/full/10.1080/20008686.2019.1682223). Infection Ecology and Epidemiology 2019, 9 (1).

Tomaselli, Elkin, Kutz, Harms, **Nymo**, Davison, Leclerc, Branigan, Dumond, Tryland, Checkley. [A Transdisciplinary Approach to *Brucella* in Muskoxen of the Western Canadian Arctic 1989-2016](https://link.springer.com/article/10.1007/s10393-019-01433-3). EcoHealth 2019.

Carlsson, Curry, Elkin, Russell. Veitch, Branigan, Campbell, Croft, Cuyler, Côté, Leclerc, Tryland, **Nymo**, Kutz. [Multi-pathogen serological survey of migratory caribou herds: A snapshot in time](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0219838). PLoS ONE 2019, 14 (7).

Tryland, **Nymo**, Sánchez Romano, Mørk, Klein, Rockström. [Infectious disease outbreak associated with supplementary feeding of semi-domesticated reindeer](https://www.frontiersin.org/articles/10.3389/fvets.2019.00126/full). Frontiers in Veterinary Science, section Veterinary Infectious Diseases 2019, 6 (126).

Bondo, Macbeth, Schwantje, Orsel, Culling, Culling, Tryland, **Nymo**, Kutz. [Health survey of live-captured boreal caribou in North-eastern British Columbia](https://pubmed.ncbi.nlm.nih.gov/30605390/). Journal of Wildlife Diseases 2019, 55 (3).

**2018**

Scotter, Tryland, **Nymo**, Hanssen, Harju, Lydersen, Kovacs, Klein, Fisk, Routti. [Contaminants in Atlantic walruses Part 1: Relationships between exposure, diet and pathogen prevalence](https://www.sciencedirect.com/science/article/abs/pii/S0269749118320633). Environmental Pollution 2018, 244.

Larsen, **Nymo**, Sørensen, Seppola, Rødven, Jiménez de Bagüés, Al Dahouk, Godfroid. [Concomitant temperature stress and immune activation induce mortality despite efficient clearance of an intracellular bacterial infection in Atlantic cod](https://www.frontiersin.org/articles/10.3389/fmicb.2018.02963/full). Frontiers in Microbiology 2018, 9 (2963).

**Nymo**, Rødven, Beckmen, Larsen, Tryland, Quakenbush, Godfroid. [*Brucella* antibodies in Alaskan true seals and eared seals – two different stories](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5797734/). Frontiers in Veterinary Science 2018, 5.

Foster, **Nymo**, Kovacs, Beckmen, Brownlow, Baily, Dagleish, Muchowski, Perrett, Tryland, Lydersen, Godfroid, McGovern, Whatmore. [First isolation of *Brucella pinnipedialis* and detection of *Brucella* antibodies from bearded seals (*Erignathus barbatus*)](https://pubmed.ncbi.nlm.nih.gov/29565250/). Diseases of Aquatic Organisms 2018, 128.

Sánchez Romano, Mørk, Laaksonen, Ågren, **Nymo**, Sunde, Tryland. [Infectious keratoconjunctivitis in semi-domesticated Eurasian tundra reindeer (*Rangifer tarandus tarandus*): microbiological study of clinically affected and unaffected animals with special reference to cervid herpesvirus 2](https://pubmed.ncbi.nlm.nih.gov/29565250/). BMC Veterinary Research 2018, 14 (15).

**2017**

Norman, Delaney, Haman, Thomas, Godfroid, Larsen, **Nymo**,Robbe-Austerman, Quance, Rhyan, Lambourn, Rabinowitz. [Validation of real-time PCR assays for detection of marine *Brucella* spp. in teleost fish](https://journals.sagepub.com/doi/full/10.1177/1040638717733024). Journal of Veterinary Diagnostic Investigation 2017, 30 (1).

Tryland, Sánchez Romano, Marcin, **Nymo**, Josefsen, Sørensen, Mørk. [Cervid herpesvirus 2 and not *Moraxella bovoculi* caused keratoconjunctivitis in experimentally inoculated semi-domesticated Eurasian tundra reindeer](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5404682/). [Acta Veterinaria Scandinavica](https://actavetscand.biomedcentral.com/) 2017, 59 (23).

Nyanhongo, Hansen, **Nymo**, Godfroid, Michel. [Evaluating the brucellin skin test as an additional test to control bovine brucellosis](https://symbiosisonlinepublishing.com/microbiology-infectiousdiseases/microbiology-infectiousdiseases80.php). SOJ – Microbiology & Infectious Diseases 2017, 5 (4).

**2016**

**Nymo**, Seppola, Al Dahouk, Ryvold Bakkemo, Jiménez de Bagüés, Godfroid, Larsen. [Experimental challenge of Atlantic cod (*Gadus morhua*) with a *Brucella pinnipedialis* hooded seal (*Cystophora cristata*) strain](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0159272). PLOS ONE 2016, 11 (7): e0159272.

**Nymo**, Arias,Pardo, Alcaraz, Godfroid, Jiménez de Bagüés. [Marine mammal *Brucella* reference strains are attenuated in a BALB/c mouse model](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0150432). PLOS ONE 2016, 11 (3): e0150432.

Godfroid, Beckmen, **Nymo**. [Removal of lipid from serum increases coherence between brucellosis rapid agglutination tests and ELISA in bears](https://pubmed.ncbi.nlm.nih.gov/27458833/). Journal of Wildlife Diseases 2016, 52 (4).

Larsen, Godfroid, **Nymo**.[*Brucella pinnipedialis* in hooded seal (*Cystophora cristata*) primary epithelial cells](https://actavetscand.biomedcentral.com/articles/10.1186/s13028-016-0188-5). Acta Veterinaria Scandinavia 2016, 58 (9).

**Nymo**, Beckmen, Godfroid. [Anti-*Brucella* Antibodies in Moose (*Alces alces gigas*), Muskoxen (*Ovibos moschatus*), and Plains Bison (*Bison bison bison*) in Alaska](https://pubmed.ncbi.nlm.nih.gov/26540335/). Journal of Wildlife Diseases 2016, 52 (1).

**2014**

Godfroid, DeBolle, Roop, O`Callaghan, Tsolis, Baldwin, Santos, McGiven, Olsen, **Nymo**, Larsen, Al Dahouk, Letesson. [The quest for a true one health perspective of brucellosis](https://pubmed.ncbi.nlm.nih.gov/25707181/). Revue scientifique et technique 2014, 33 (2).

**Nymo**, Tryland, Åsbakk, Godfroid, Larsen. [*Brucella*-infeksjoner hos sjøpattedyr – fortsatt ubesvarte spørsmål](https://www.researchgate.net/publication/270566737_Brucella-infeksjoner_hos_sjopattedyr_-_fortsatt_ubesvarte_sporsmal_Brucella_infections_in_marine_mammals_-_still_unanswered_questions) [*Brucella* infections in marine mammals – still unanswered questions]. The Norwegian Veterinary Journal 2014, 126 (5).

Godfroid, **Nymo**, Larsen, Åsbakk, Josefsen. [Meldepliktige sykdommer hos rein](https://www.researchgate.net/publication/273403602_Meldepliktige_sykdommer_hos_rein) [Reportable diseases in reindeer]. The Norwegian Veterinary Journal 2014, 126 (2).

**Nymo**, Das Neves, Tryland, Bårdsen, Lima Santos, Turchetti, Janczak, Djønne, Lie, Berg, Godfroid. [*Brucella pinnipedialis* hooded seal (*Cystophora cristata*) strain in the mouse model with concurrent exposure to PCB 153](https://pubmed.ncbi.nlm.nih.gov/24534631/). Comparative Immunology, Microbiology and Infectious Diseases 2014, 37 (3).

**2013**

Larsen\*, **Nymo**\*, Briquemont, Sørensen, Godfroid. \*Shared first authorship. [Entrance and survival of *Brucella pinnipedialis* in human macrophages and epithelial cells](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0084861). PLOS ONE 2013, 8 (12): e84861.

**Nymo**, Tryland, Frie, Haug, Foster, Rødven, Godfroid. [Age-dependent prevalence of anti-*Brucella* antibodies in hooded seals (*Cystophora cristata*)](https://pubmed.ncbi.nlm.nih.gov/24191996/). Journal of Aquatic Diseases 2013, 106 (3).

Larsen, **Nymo**, Boysen, Tryland, Godfroid*.* [Entry and elimination of marine mammal *Brucella* spp. by hooded seal (*Cystophora cristata*) alveolar macrophages *in vitro*](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0070186).PLOS ONE 2013, 8 (7): e70186.

Jensen, **Nymo**, Forcada, Hall, Godfroid*.* [*Brucella* antibody seroprevalence in Antarctic seals (*Arctocephalus gazella, Leptonychotes weddellii* and *Mirounga leonina*)](https://pubmed.ncbi.nlm.nih.gov/23999701/). Journal of Aquatic Diseases 2013, 105 (3).

**Nymo**, Godfroid, Åsbakk, Larsen, Das Neves, Rødven, Tryland. [A Protein A/G indirect ELISA for the detection of anti-*Brucella* antibodies in Arctic wildlife](https://pubmed.ncbi.nlm.nih.gov/23572454/). Journal of Veterinary Diagnostic Investigation 2013, 25 (3).

**2012**

Jensen, **Nymo**, Godfroid. [Prevalence of *Toxoplasma gondii* antibodies in pinnipeds from Antarctica](https://veterinaryrecord.bmj.com/content/171/10/249.2). Veterinary Record 2012, 171 (10).

Evans, das Neves, Finstad, Beckmen, Sjerve, **Nymo**, Tryland**.** [Evidence of alphaherpesvirus infections in Alaskan caribou and reindeer](https://bmcvetres.biomedcentral.com/articles/10.1186/1746-6148-8-5). BMC Veterinary Research 2012, 8 (5).

Tryland, **Nymo**, Nielsen, Nordøy, Kovacs, Krafft, Thoresen, Åsbakk, Osterrieder, Roth, Lydersen, Godfroid, Blix. [Serum chemistry and antibodies against pathogens in Antarctic fur seals, Weddell seals, Crabeater seals, and Ross seals](https://pubmed.ncbi.nlm.nih.gov/22740529/). Journal of Wildlife Diseases 2012, 48 (3).

**2011**

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**Case reports**

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**Posters/oral presentations in national and international conferences/workshops**

Multiple (>50) oral and poster presentations in national and international conferences and meetings in the period 2008 – now.

**Scientific review work**

Reviewer of multiple scientific papers in journals such as Journal of Wildlife Diseases, Veterinary Microbiology, Environment International and Acta Veterinaria Scandinavica.

**Licenses**

Driver’s License: Norway. Hunting License: Norway.

**Languages**

Norwegian: Mother tongue

English: Fluent speaking and writing