

Daniela Maria Pampanin, PhD

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Born: December 24, 1972 in Vicenza, Italy

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EXPERTISE

I am the leader of the Biological Chemistry group and the Ecotoxicology and Environmental Monitoring groups at the University of Stavanger (Department of Chemistry, Bioscience and Environmental Engineering). I have been leading environmental monitoring programs for both legacy and emerging contaminants (in particular pharmaceuticals) in different countries and provided environmental risk assessment (ERA) to both companies and public administrations. At present I am holding the position as EU coordinator for the Faculty of Science and Technology, University of Stavanger.

My expertise includes the evaluation of both chemical and biological measurements, the application of molecular and biochemical methods to better understand the sub-lethal effects of contaminants in marine organisms, including the use of omics techniques (genomics, transcriptomics, metatranscriptomics, proteomics and metabolomics).

I am a member of the Working Group on Biological Effects of Contaminants (WGBEC) of ICES (International Council for the Exploration of the Sea), of the Ocean Technology Innovation Cluster Stavanger and previously on the board of the Norwegian Proteomics Society.

ACADEMIC AND PROFESSIONAL EXPERIENCE

2019 - present	Professor, Faculty of Science and Technology, University of Stavanger, Norway
2018 - 2022	Visiting Scientist, University of California Riverside, Riverside, USA
2018 - 2020	Senior Researcher, Norwegian Research Centre AS (NORCE)
2018 - 2019	Associate Professor, Faculty of Science and Technology, University of Stavanger, Norway
2014 - 2018	Associate Professor II, Faculty of Science and Technology, University of Stavanger, Norway
2004 - 2018	Senior Researcher, International Research Institute of Stavanger (IRIS), Norway
2011 - 2014	Guest lecturer, Faculty of Science and Technology, University of Stavanger, Norway
2003 - 2004	Guest lecturer, Department of Environmental Science, University of Venice, Italy
1998 - 2001	EU research fellow, (FAIR-CT-98-4465) Department of Biology, University of Padua, Italy.
1998 - 1998	Consultant for Consorzio Venezia Nuova, Venice, Italy

EDUCATION

PhD studies in Environmental Science, University of Venice, ISMAR (Institute of Marine Science) - CNR (National Research Council) and University of West Piedmont, Italy, under the supervision of Dr. Cristina Nasci and Prof. Aldo Viarengo (September 2001/September 2004)

MSc (Cand.-scient) studies in biology, University of Padua, Italy, under the supervision of Prof. Paola Venier (September 1993/ November 1998)

PROJECT MANAGEMENT

Project leader for the projects reported below. Tasks include research activity, general administration, accounting and project personnel management.

In addition, participation as project co-worker in more than 10 projects.

Current projects

1. 2022/present - In vitro methods for screening novel ingredients. Funded by the Research Council of Norway. Industrial PhD grant in collaboration with Skretting Aquaculture Research Centre AS (budget 3 600 kNOK).
2. 2021/present – PHARMASEA Presence, behavior and risk assessment of pharmaceuticals in marine ecosystems. Funded by EU JPI Ocean (Aquatic Pollutants) (budget 1 197 451 Euros)
3. 2021/present - Nor-Bra2025 One Health perspective, a key for a sustainable future. Funded by DIKU (Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education) (budget 3 000 kNOK)
4. 2021/present - Sustainable cultivation of Dulce. Funded by The North Atlantic Cooperation (budget 4 581 kNOK)
5. 2021/present - Establishment of a pipeline to evaluate the digestibility of new ingredients in fish feed. Plogen Program funded by Valide/UiS (budget 200 kNOK)
6. 2020/present - Water Column Monitoring Program 2020 - Environmental Monitoring of petroleum activities on the Norwegian continental shelf. Funded by The Norwegian Oil and Gas Association, budget 2 032 kNOK).
7. 2020/present - Torske Klubben Minnesota Resident Fellowship. Scholarship aid to students wishing to study at the University of Minnesota Graduate School (budget 500 kNOK)
8. 2020/present – INPART Nor-SA2023: Joint evaluation and mitigation of emerging contaminants risks. Funded by the Research Council of Norway (budget 4 500 kNOK). Co-project leader with Prof. Magne O. Sydnes, University of Stavanger.
9. 2020/present – Evaluation of the fish gut microbiome. Funded by Nutreco (110 kNOK).
10. 2019/present - Water Column Monitoring 2019: research and development. Funded by The Norwegian Oil and Gas Association, budget 400 kNOK).
11. 2018/present - Marine Sewage Outfalls - Environmental Impact Evaluation. Funded by the Research Council of Norway (budget 5 726 kNOK). Co-project leader with Prof. Magne O. Sydnes, University of Stavanger.
12. 2016/present - Nor-Bra2020 Gearing the future generation towards a sustainable use of the environment. Funded by DIKU (Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education) (budget 1 750 kNOK).

Finalised projects

13. 2020/2022 - HEALTHY SEAWEED New sustainable foods: health benefits of seaweed consumption. Funded by the Research Council of Norway (budget 6 994 kNOK). Co-project leader with Dr. Ann Kristin Vatland, University of Stavanger.
14. 2018/2019 - Mobility grant from University of Stavanger (50 kNOK).
15. 2017/2020 - Water Column Monitoring Program 2017 - Environmental Monitoring of petroleum activities on the Norwegian continental shelf. Funded by The Norwegian Oil and Gas Association, budget 16 321 kNOK).
16. 2015/2018 - Biomonitoring of the Oslo fjord. Funded by Norconsult/The Norwegian Environmental Agency (budget 600 kNOK).

17. 2015 - Martin Linge – Field study. Biomonitoring of the Martin Linge drilling waste discharge after TCC treatment. Funded by Total E&P Norge (budget 3 087 kNOK).
18. 2015 - Biomonitoring of the Oslo fjord. Screening and Urban fjord projects. Funded by NIVA (Norwegian Institute for Water Research)/The Norwegian Environmental Agency (budget 76 kNOK).
19. 2014/2015 - Water Column Monitoring Program 2014 – Effect study. Investigation into the potential biological effects of offshore oil and gas activity on biota living within the water column of the Norwegian sector of the North Sea. Funded by The Norwegian Oil and Gas Association (budget 1 979 kNOK).
20. 2014/2015 - Cooperation and sharing: Environmental R&D network between Norway and Brazil. Funded by the Research Council of Norway (budget 2 000 kNOK)).
21. 2013/2017 - Indicators for Environmental Impact of Petroleum Activities: The Next Generation of Molecular Markers (iNEXT). Funded by the Research Council of Norway (budget 9 713 kNOK).
22. 2013/2014 - Water Column Monitoring Program 2013 – Effect study. Investigation into the potential biological effects of offshore oil and gas activity on biota living within the water column of the Norwegian sector of the North Sea. Funded by The Norwegian Oil and Gas Association (budget 2 136 kNOK).
23. 2012/2013 - Water Column Monitoring Program 2012 – Effect study. Investigation into the potential biological effects of offshore oil and gas activity on biota living within the water column of the Norwegian sector of the North Sea. Funded by The Norwegian Oil and Gas Association (budget 4 077 kNOK).
24. 2011/2013 - Gentox Haddock Statoil. Study of the genotoxic effect (DNA adduct measurement) of Produced Water and HDF200 base oil in fish. Funded by Statoil (budget 980 kNOK).
25. 2011 - Skretting project (confidential). Funded by Skretting.
26. 2011 - Growth trial, Ecostrong (confidential). Funded by ScanVacc/Proplant
27. 2006/2008 - Developing an Index of the Quality of the Marine Environment (Marine Environment I.Q.) based on biomarkers: integration of pollutant effects. Funded by the Research Council of Norway (budget 2 602 kNOK)
28. 2006/2008 - BioSea II Joint Insutry Project (JIP). Scallop exposed to Goliath dispersed crude oil. Funded by Total E&P Norge and ENI Norge.

PUBLICATIONS

1. Matozzo V., Ballarin L., Pampanin D.M., Marin M.G. (2001) Effects of copper and cadmium exposure on functional responses of the haemocytes in the clam *Tapes philippinarum*. Archives of Environmental Contamination and Toxicology 41, 163-170.
2. Pampanin D.M., Amaral A.M., Chicharo M.A., Marin M.G. (2001) Effects of anoxia on DNA, RNA and protein content in the venus clam *Chamelea gallina*. Italian journal of Biochemistry 50 (1-2), 59-61.
3. Pampanin D.M., Marin M.G., Ballarin L. (2002) Morphological and cytoenzymatic characterisation of haemocytes of the venus clam, *Chamelea gallina*. Diseases of Aquatic Organisms 49 (3), 227-234.
4. Pampanin D.M., Ballarin L., Carotenuto L., Marin M.G. (2002) Air exposure and functionality of *Chamelea gallina* haemocytes: effects on haematocrit, adhesion, phagocytosis and enzymatic contents. Comparative Biochemistry and Physiology A 131, 605-614.

5. Marin M.G., Moschino V., Pampanin D.M., Nesto N., Ballarin L., Casellato S. and Da Ros L. (2003) Effects of hydraulic dredging on target species *Chamelea gallina* from the northern Adriatic Sea: physiological responses and shell damage. *Journal of Marine Biology Association U.K.* 83, 1281-1285.
6. Da Ros L., Nesto N., Nasci C., Moschino V., Pampanin D.M., Marin M.G. (2003) Biochemical and behavioural effects of hydraulic dredging on the target species *Chamelea gallina*. *Fisheries Research* 64, 71–78.
7. Ballarin L., Pampanin D.M., Marin M.G. (2003) Mechanical disturbance affects haemocyte functionality in the Venus clam *Chamelea gallina*. *Comparative Biochemistry and Physiology A*, 136, 631-640.
8. Pampanin D.M., Marin M.G. (2003) Seasonal variation of nucleic acids and proteins in *Tapes philippinarum* collected in the lagoon of Venice. *Biologia Marina Mediterranea*, 10 (2), 398-400.
9. Camus L., Pampanin D.M., Volpato E., Sanni S., Delaney E., Nasci C. (2004) Total oxyradical scavenging capacity responses in *Mytilus galloprovincialis* trasplanted into the Venice lagoon to measure the biological impact of anthropogenic activities. *Marine Pollution Bulletin*, 49, 801-808.
10. Pampanin D.M., Volpato E., Marangon I., Nasci C. (2005) Physiological measurements of native and transplanted mussel (*Mytilus galloprovincialis*) in the canals of Venice. Survival in air and condition index. *Comparative Biochemistry and Physiology A*, 140, 41-52.
11. Pampanin D.M., Marangon I., Volpato E., Campesan G., Da Ros L., Nasci C. (2005) Stress biomarkers and alkali-labile phosphate level in mussel (*Mytilus galloprovincialis*) collected in the urban area of Venice (Venice Lagoon, Italy). *Environmental Pollution*, 136, 103-107.
12. Pampanin D.M., Camus L., Gomiero A., Marangon I., Volpato E., Nasci C. (2005) Susceptibility to oxidative stress of mussels (*Mytilus galloprovincialis*) in the Venice Lagoon (Italy). *Marine Pollution Bulletin* 50, 1548-1557.
13. Camatti E., Pampanin D.M., Marangon I., Volpato E., Comaschi A., Socal G., Nasci C. (2006) Biomarker responses in the copepod *Acartia tonsa* of the Venice lagoon. *Marine Environmental Research* 62, 381-382.
14. Nasci C, Volpato E, Pampanin DM, Castellani C, Berton A, Delaney E, Da Ros L (2006) The grass goby, *Zosterisessor ophiocephalus*, in ecological risk assessment of the Venice Lagoon: Toward an integrated ecotoxicological approach. *Marine Environmental Research* 62, 367-368.
15. Pampanin D.M., Marangon I., Volpato E., Gomiero A., Capri F., Viarengo A., Nasci C. (2006) Estrogenic effects of 17-alpha-estradiol and 4-n-nonylphenol in sexually differentiated male and female mussels (*Mytilus galloprovincialis*). *Marine Environmental Research* 62, 242-243.
16. Pampanin D.M., Camus L., Bjørnstad A., Andersen O.K., Gulliksen B. (2006) A proteomic study using the deep sea *Eurythenes gryllus*. How do copper, mercury and benzo(a)pyrene affect the protein expression signatures? *Marine Environmental Research* 62, 181-182
17. Provan F., Bjørnstad A., Pampanin D.M., Lyng E., Fontanillas F., Andersen O.K., Koppe W., Bamber S. (2006) Mass spectrometric profiling - a diagnostic tool in fish? *Marine Environmental Research* 62, 105-108.

18. Bolognesi C., Perrone E., Roggeri P., Pampanin D.M., Sciutto A. (2006) Assessment of micronuclei induction in peripheral erythrocytes of fish exposed to xenobiotics under controlled conditions. *Aquatic Toxicology* 78 (suppl 1), 93-98.
19. Larsen B.K., Bjornstad A., Sundt R., Taban I.C., Pampanin D.M., Andersen O.K. (2006) Comparison of protein expression in plasma from nonylphenol and bisphenol A - exposed Atlantic cod (*Gadus morhua*) and turbot (*Scophthalmus maximus*) by use of SELDI-TOF. *Aquatic Toxicology* 78 (suppl 1), 25-33.
20. Gomiero A., Pampanin D.M., Bjørnstad A., Larsen B.K., Provan F., Lyng E., Andersen O.K. (2006) An ecotoxicoproteomic approach (SELDI-TOF mass spectrometry) to biomarker discovery in crab exposed to several pollutants under laboratory conditions. *Aquatic Toxicology* 78 (suppl 1), 34-41.
21. Sundt R.C., Pampanin D.M., Larsen B.K., Brede C., Herzke D., Bjornstad A., Andersen O.K. (2006) The BEEP Stavanger workshop: mesocosm exposures. *Aquatic Toxicology* 78 (suppl 1), 5-12.
22. Berge J., Johnsen G., Nilsen F. Gulliksen B., Slagstad D., Pampanin D.M. (2006) The *Mytilus edulis* population in Svalbard: how and why. *Marine Ecology Progress Series* 309, 305-306.
23. Pampanin D.M., A. Viarengo, P. Garrigue, O.K. Andersen (2006) An overview of the BEEP Stavanger workshop. *Aquatic Toxicology* 78 (suppl 1), 124-126.
24. Pampanin D.M., A. Viarengo, P. Garrigue, O.K. Andersen (2006) Background for the BEEP Stavanger workshop: biological effects on marine organisms in two common, large, laboratory experiments and in a field study. Comparison of the value (sensitivity, specificity, etc.) of core and new biomarkers. *Aquatic Toxicology* 78 (suppl 1), 1-4.
25. Viarengo A., Dondero F., Pampanin D.M., Fabbri R., Poggi E., Malizia M., Bolognesi C., Perrone E., Gollo E., Cossa G.P. (2007) A biomonitoring study assessing the residual biological effects of pollution caused by the HAVEN wreck on marine organisms in the Ligurian Sea (Italy). *Archive of Environmental Contamination and Toxicology* 53(4), 607-16.
26. Aarab N., Pampanin D.M., Nævdal A., Øysæd K.B., Gastaldi L., Bechmann R.K. (2008) Histopathology alterations and histochemistry measurements in mussel, *Mytilus edulis* collected offshore from an aluminium smelter industry (Norway). *Marine Pollution Bulletin* 57(6), 569-574.
27. Krapp R.H., Bassinet T., Berge J., Pampanin D.M., Camus L. (2009) Antioxidant responses in the polar marine sea-ice amphipod *Gammarus wilkitzkii* to natural and experimentally increased UV levels. *Aquatic Toxicology* 94(1), 1-7.
28. Pampanin D.M., Ravagnan E., Apeland S., Aarab N., Godal B.F., Westerlund S., Hjermann D.Ø., Eftestøl T., Budka M., Gabrys B., Viarengo A., Barsiene J. (2010) The Marine Environment IQ concept. Developing an index of the quality of the marine environment based on biomarkers: integration of pollutant effects on marine organisms. *Comparative Biochemistry and Physiology A* 154, S51-S52.
29. Sundt R. C., Pampanin D.M., Grung M., Baršienė J., Ruus A. (2011) PAH body burden and biomarker responses in mussels (*Mytilus edulis*) exposed to Produced Water from a North Sea oil field: laboratory and field assessments. *Marine Pollution Bulletin* 62, 1498-1505.
30. Sundt R.C., Ruus A., Jonsson H., Skarphéðinsdóttir H., Meier S., Grung M., Pampanin D.M. (2012) Biomarker responses in Atlantic cod (*Gadus morhua*) exposed to Produced

Water from a North Sea oil field: laboratory and field assessments. *Marine Pollution Bulletin* 64, 144-152.

31. Pampanin D.M., E. Larssen, F. Provan, M. Sivertsvik, P. Ruoff, M.O. Sydnes (2012) Detection of small bioactive peptides from Atlantic herring (*Clupea harengus* L.). *Peptides* 34, 423-426.
32. Bagi A, Pampanin D.M., Brakstad O.G., Kommedal R. (2013) Estimation of hydrocarbon biodegradation rates in marine environments: a critical review of the Q10 approach. *Marine Environmental Research* 89, 83-90.
33. Bagi A., Pampanin D.M., Lanzén A., Bilstad T., Kommedal R. (2013) Naphthalene biodegradation in temperate and arctic marine microcosms. *Biodegradation* 25(1),111-125.
34. Pampanin D.M., Larssen E., Øysæd K.B., Sundt R.C., Sydnes M.O. (2014). Study of the bile proteome of Atlantic cod (*Gadus morhua*): multi biological markers of exposure to polycyclic aromatic hydrocarbons. *Marine Environmental Research* 101, 161-168.
35. Pampanin D.M., Le Goff J., Skogland K., Marcucci C.K., Øysæda K.B., Lorentzen M., Jørgensen K.B., Sydnes M.O. (2016). Biological effects of PAHs and their first metabolic products in in vivo exposed Atlantic cod (*Gadus morhua*). *Journal of Toxicology and Environmental Health A* 79, 633-646.
36. Pampanin D.M., Kemppainen E.K., Skogland K., Jørgensen K.B., Sydnes M.O. (2016) Investigation of fixed wavelength fluorescence results for biliary metabolites of polycyclic aromatic hydrocarbons formed in Atlantic cod (*Gadus morhua*). *Chemosphere* 144, 1372-1376.
37. Pampanin D.M. (2016) 5th Norwegian Environmental Toxicology Symposium: Recognizing, understanding, and minimizing the impacts of human activity. *Journal of Toxicology and Environmental Health A* 79, 513-514.
38. Drotningssvik A., Mjøs S.A., Pampanin D.M., Slizyte R., Carvajal A., Remman T., Høgøy I., Gudbrandsen O.A. (2016) Dietary fish protein hydrolysates containing bioactive motifs affect serum and adipose tissue fatty acid compositions, serum lipids, postprandial glucose regulation and growth in obese Zucker fa/fa rats. *British Journal of Nutrition* 116 (8), 1336-1345.
39. Pampanin D.M., Bore Haarr M., Sydnes M.O. (2016) Natural peptides with antioxidant activity from Atlantic cod and Atlantic salmon residual material. *International Journal of Applied Research in Natural Products* 9(2), 1-8.
40. Pampanin D.M., Brooks S.J., Grøsvik B.E., Le Goff J., Meier S., Sydnes M.O. (2017) DNA adducts in marine fish as biological marker of genotoxicity in environmental monitoring: The way forward. *Marine Environmental Research* 125, 49-62.
41. Sanni S., Björkblom C., Jonsson H., Godal B.F., Liewenborg B., Lyng E., Pampanin D.M. (2017) I: Biomarker quantification in fish exposed to crude oil as input to species sensitivity distributions and threshold values for environmental monitoring. *Marine Environmental Research* 125, 10-24.
42. Sanni S., Lyng E., Pampanin D.M., Smit M.G.D. (2017) II. Species sensitivity distributions based on biomarkers and whole organism responses for integrated impact and risk assessment criteria. *Marine Environmental Research* 127, 11-23.
43. Sanni S., Lyng E., Pampanin D.M. (2017) III: Use of biomarkers as Risk Indicators in Environmental Risk Assessment of oil based discharges offshore. *Marine Environmental Research* 127, 1-10.

44. Skogland Enerstvedt K., Sydnes M.O., Pampanin D.M. (2017) Study of the plasma proteome of Atlantic cod (*Gadus morhua*): Effect of exposure to PAHs and their corresponding diols. *Chemosphere*, 183, 294-304.
45. Redmond K.J., Berry M., Pampanin D.M., Andersen O.K. (2017) Valve gape behaviour of mussels (*Mytilus edulis*) exposed to dispersed crude oil as an environmental monitoring endpoint. *Marine Pollution Bulletin* 117(1-2), 330-339.
46. Skogland Enerstvedt K., Sydnes M.O., Pampanin D.M. (2017) Identification of an albumin-like protein in plasma of Atlantic cod (*Gadus morhua*) and its biomarker potential for polycyclic aromatic hydrocarbon contamination. *Heliyon* 3, e00367.
47. Bagi A., Sannes Riiser E., Steine Molland H., Star B., Haverkamp T.H.A., Sydnes M.O., Pampanin D.M. (2018) Gastrointestinal microbial community changes in Atlantic cod (*Gadus morhua*) exposed to crude oil. *BMC Microbiology*, 18:25, doi.org/10.1186/s12866-018-1171-2.
48. Drotningvik A., Pampanin D.M., Slizyte R., Carvajal A., Høgøy I., Remman T., Gudbrandsen O.A. (2018) Hydrolyzed proteins from herring and salmon rest raw material contain peptide motifs with angiotensin-I converting enzyme inhibitors and resulted in lower urine concentrations of protein, cystatin C and glucose when fed to obese Zucker fa/fa rats. *Nutrition Research* 51, 14-21.
49. Drotningvik A., Vikøren L.A., Mjøs S.A., Oterhals Å, Pampanin D., Flesland O., Gudbrandsen O.A. (2018) Water-Soluble Fish Protein Intake Led to Lower Serum and Liver Cholesterol concentrations in Obese Zucker fa/fa Rats. *Marine Drugs* 16, 149, pp 12.
50. Sanni S., Brooks S., Lyng E., Pampanin D.M. (2018) Experience with the use of Biomarkers as Risk Indicators in Environmental Risk Assessment of oil based discharges offshore. *Journal of Chemical Engineering And Bioanalytical Chemistry* 2(1), 88-113.
51. Enerstvedt Skogland K., Sydnes M.O., Pampanin D.M. (2018) Screening for protein adducts of naphthalene and chrysene in plasma of exposed Atlantic cod (*Gadus morhua*). *Chemosphere* 200, 67-79.
52. Skogland Enerstvedt K., Sydnes M.O., Pampanin D.M. (2018) Study of the plasma proteome of Atlantic cod (*Gadus morhua*): changes due to crude oil exposure. *Marine Environmental Research* 138, 46-54.
53. R. Helland, E.K. Bjorkeng, U. Rothweiler, M.O. Sydnes, D.M. Pampanin (2019) The crystal structure of haemoglobin from Atlantic cod. *Acta Crystallographica*, F75, 537-542.
54. Walter J.M., Bagi A., Pampanin D.M. (2019). Insights into the Potential of the Atlantic Cod Gut Microbiome as Biomarker of Oil Contamination in the Marine Environment. *Microorganisms* 2019, 7, 209, pp 15. doi:10.3390/microorganisms7070209
55. Vaaland C., Pampanin D.M., Sydnes M.O. (2020). Synthesis of trans-Dihydronaphthalenediols and Evaluation of their use as Standards for PAH Metabolite Analysis in Fish Bile by GC-MS. *Chemosphere*, 256, 126928, pp. 8.
56. Ojemaye C.Y., Onwordi C.T., Pampanin D.M., Sydnes M.O., Petrik L. (2020) Presence and risk assessment of herbicides in the marine environment of Camps Bay (Cape Town, South Africa). *Science of the Total Environment* 738 (2020) 140346, pp. 13.
57. Dale K., Yadetie F., Müller M.B., Pampanin D.M., Gilabert A., Zhang X., Tairova Z., Haarr A., Lille-Langøy R., Lyche J.L., Porte C., Karlsen O.A., Goksøyr A. (2020) Proteomics and lipidomics analyses reveal modulation of lipid metabolism by perfluoroalkyl substances in liver of Atlantic cod (*Gadus morhua*). Accepted in *Aquatic Toxicology* 227, 105590.

58. Meier S., Karlsen Ø., Le Goff J., Sørensen L., Sørhus E., Pampanin D.M., Donald C.E., Fjellidal P.G., Dunaevskaya E., Romano M., Caliani I., Casini S., Bogevik A.S., Olsvik P.A., Myers M., Grøsvik B.E. DNA damage and health effects in juvenile haddock (*Melanogrammus aeglefinus*) exposed to PAHs associated with oil-polluted sediment or produced water (2020). PLoS ONE 15(10): e0240307. <https://doi.org/10.1371/journal.pone.0240307>.
59. Pham H.H.T., Lohne H.P., Arild Ø., Pampanin D.M. (2021) Modelling of environmental fate and effects of oil leakages from abandoned wells: an environmental impact factor tool. Integrated Environmental Assessment and Management, Integrated Environmental Assessment and Management 17(3), 626–638.
60. Ojemaye C.Y., Onwordi C.T., Pampanin D.M., Sydnes M.O., Petrik L. (2021) Herbicides in Camps Bay (Cape Town, South Africa), supplemented. Science of The Total Environment 778, 146057.
61. Øfsthus Goksøyr S., Sørensen H., Grøsvik B.E., Pampanin D.M., Goksøyr A., Karlsen O.A. (2021) Toxicity assessment of urban marine sediments from Western Norway using a battery of stress-activated receptors and cell-based bioassays from fish. Environmental Toxicology and Pharmacology, 87. Available online 14 July 2021, 103704.
62. Lille-Langøy R., Jørgensen K.B., Goksøyr A., Pampanin D.M., Sydnes M.O., Karlsen O.A. (2021) Substituted 2- to 5- ring polycyclic aromatic compounds are potent agonists of Atlantic cod (*Gadus morhua*) aryl hydrocarbon receptors Ahr1a and Ahr2a. Environmental Science & Technologies, 55(22):15123-15135. doi: 10.1021/acs.est.1c02946.
63. Bizzaro G., Vatland A.K., Pampanin D.M. (2022) The One-Health approach in seaweed food production. Environmental International, 158, 106948.

BOOK CHAPTERS

1. Dabalà C., Calace N., Campostrini P., Cervelli M., Collarini F., Da Ros L., Libertini A., Marcomini A., Nasci C., Pampanin D., Petronio B.M., Pietroletti M., Pojana G., Trisolini R., Zaggia L., Zonta R. (2005) Water quality in the channels of Venice: results of a recent survey. In Flooding and Environmental Challenges for Venice and its Lagoon. State of Knowledge. C. A. Fletcher and T. Spencer Eds. Cambridge University Press, pp 617-630.
2. Pampanin D.M., Sydnes M.O. (2013) Polycyclic aromatic Hydrocarbons a constituent of Petroleum: Presence and Influence in the Aquatic Environment. In Vladimir Kutcherov, Anton Kolesnikov (eds.), Hydrocarbons, InTech, Rijeka, pp 83-118 (<http://dx.doi.org/10.5772/48176>).
3. Pampanin D.M. (2017) Introduction to petrogenic polycyclic aromatic hydrocarbons (PAHs) in the aquatic environment. In Daniela M. Pampanin, Magne O. Sydnes (eds.), Petrogenic Polycyclic Aromatic Hydrocarbons in the Aquatic Environment: Analysis, Synthesis, Toxicity and Environmental Impact, Betham Science Publishers, Sharjah, pp 3-17.
4. Pampanin D.M. (2017) The presence of petrogenic PAHs in the aquatic environment - monitoring studies. In Daniela M. Pampanin, Magne O. Sydnes (eds.), Petrogenic Polycyclic Aromatic Hydrocarbons in the Aquatic Environment: Analysis, Synthesis, Toxicity and Environmental Impact, Betham Science Publishers, Sharjah, pp 18-49.

5. Pampanin D.M., Schlenk D. (2019) Polycyclic Aromatic Hydrocarbons: Ecotoxicity in the aquatic environment and human health consequences In: Environmental Toxicology, JPF D'Mello (Editor), CABI editor, pp 19.

EDITED BOOKS

Pampanin D.M., Sydnes M.O. - Petrogenic Polycyclic Aromatic Hydrocarbons in the Aquatic Environment: Analysis, Synthesis, Toxicity and Environmental Impact, Betham Science Publishers, Sharjah, 2017.

CONFERENCE CONTRIBUTIONS (presentations and posters)

1. Venier P., Pampanin D.M., Libertini A. - Overall evaluation of genetic damage in native and transplanted mussels of the Venice lagoon (Italy). 28th Annual Meeting European Environmental Mutagen Society (EEMS) (1998).
2. Venier P., Zampieron C., Pampanin D.M. - DNA adducts and micronuclei in *Mytilus galloprovincialis*: laboratory and field studies. 8th Society of Environmental Toxicology and Chemistry meeting (SETAC) Europe (1998).
3. Venier P., Zampieron C., Pinna A., Pampanin D.M. - Detection of genetic damage in mussels and fish: laboratory and field studies. 8th Society of Environmental Toxicology and Chemistry meeting (SETAC) Europe (1998).
4. Zampieron C., Pampanin D., Venier P. – What induces DNA adducts in mussels living in PAH-polluted sites? VI Annual Congress, Italian Society of Environmental Mutagenesis (1998)
5. Pampanin D.M., Carotenuto L., Ballarin L., Marin M.G. - Effects of anoxia on functionality of *Chamelea gallina* haemocytes. 21st European Society for Comparative Biochemistry and Physiology (ESCPB) (2000).
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88. Bøe S., Espeland C.I., Petrik L., Schlenk D., Sydnes M.O., Pampanin D.M. Quantification of pharmaceuticals and personal care products in sediment, seawater, and biota collected around a wastewater discharge point in Norway. 30th SETAC (Society of Environmental Toxicology and Chemistry) Europe, Dublin, Ireland (3-7 May, 2020)
89. Monticelli G., Bagi A., Vieweg I., Nahrgang J., Schlenk D., Pampanin D.M. Connecting gut microbiome changes and fish metabolism in oil exposure studies. 30th SETAC (Society of Environmental Toxicology and Chemistry) Europe, Dublin, Ireland (3-7 May, 2020)
90. Espeland C.I., Bøe S., Obradovic M., Irfan M., Lyng E., Rautenbach C., Schlenk D., Petrik L., Sydnes M.O., Pampanin D.M. Occurrences and biological effects of emerging and legacy contaminants around a marine sewage outfall. 30th SETAC (Society of Environmental Toxicology and Chemistry) Europe, Dublin, Ireland (3-7 May, 2020)
91. Dearnley J.M., Palace V., Bulloch P., Timlick L., Pampanin D.M., Peters L.E., Hanson M.L., Tomy G.T. Assessing the efficacy of minimally invasive remediation techniques for oil spills on freshwater shorelines using bile metabolites in fish. 103rd Canadian Chemistry Conference and Exhibition (CCCE 2020), Winnipeg, Manitoba, Canada (May 24–28, 2020)
92. Sydnes M.O., Pampanin D.M. Sources tracking of oil contamination by mass spectrometry. The Norwegian Environmental Chemistry Symposium (NECS), Loen, Norway (September 14-16, 2020)
93. Monticelli G., Collins M., Seghal I., Magnuson J., Bagi A., Schlenk D., Pampanin D.M. Connecting microbiome changes and fish metabolism in guts of organisms exposed to oil. 8th Norwegian Toxicology Symposium (NETS), Digital (November 4-5, 2020)
94. Larsen U., Pampanin D.M., Sone I., Noriega-Fernandez. Rethinking Food Waste as Next-Generation Bioactive Peptides. 34th International European Federation of Food Science and Technology (EFFoST), Tel Aviv, Israel (November 10-12, 2020)
95. Baka K., Sone I., Monticelli G., Pampanin D.M., Rode T.M., Prabhu L., Sivertsvik M., Noriega-Fernández E. Next-generation bioactive peptides: Bringing food waste to the forefront of technological innovation. 35th International European Federation of Food Science and Technology (EFFoST), Lausanne, Switzerland (November 1-4, 2021)
96. Arild Ø., Ford E., Pampanin D.M., Lohne H.P. Leakage of plugged and abandoned wells – does it matter? PACE (Plugging & Abandonment Collaborative Environment), Environment implication of P&A operations, Huston (October 19-20, 2021)
97. Baka K., Sone I., Monticelli G., Pampanin D.M., Rode T.M., Prabhu L., Sivertsvik M., Noriega Fernandez E. Next-generation bioactive peptides: Bringing food waste to the forefront of technological innovation. 35th International European Federation of Food Science and Technology (EFFoST) (November 1-4, 2021)
98. Tanabe P., Pampanin D.M., Jørgensen K., Schlenk D. Differences in the metabolism of 2- and 6-hydroxychrysene in embryonic Japanese medaka. 42nd SETAC (Society of Environmental Toxicology and Chemistry) North America, Portland, Oregon (November 14-18, 2021)
99. Tanabe P., Pampanin D.M., Jørgensen K., Schlenk D. Isomeric metabolism and toxicity of hydroxychrysenes in embryos of Japanese medaka (*Oryzias latipes*). Society of Toxicology (SOT) 61st Annual Meeting and ToxExpo, San Diego, California (March 27-31, 2022).
100. Monticelli G., Peggs D., Bisesi J.H., Magnuson J.T., Schlenk D., Pampanin D.M. Florfenicol in salmon diet: microbiome and fish gut changes. 21st International Symposium on Pollution Responses in Marine Organisms, PRIMO 21, Gothenburg, Sweden (May 22-25, 2022).
101. Magnuson J., Havranek I., Longenecker-Wright Z., Monticelli G., Brekken H.K., Kallenborn R., Schlenk D., Sydnes M.O., Pampanin D.M. Contaminants of emerging concern in environmental samples near a wastewater treatment discharge site in Norway:

- Detection, accumulation, and toxicity to biota. 21st International Symposium on Pollution Responses in Marine Organisms, PRIMO 21, Gothenburg, Sweden (May 22-25, 2022).
102. Tanabe P., Jørgensen K.B, Pampanin D.M., Schlenk D. Isomeric metabolism and toxicity of hydroxychrysenes in embryos of Japanese medaka (*Oryzias latipes*). 21st International Symposium on Pollution Responses in Marine Organisms, PRIMO 21, Gothenburg, Sweden (May 22-25, 2022).
 103. Goksøyr A., Eide M., Brun N., Yadetie F., Zhang X., Hylland K., Muller M.H, Lyche J.L., Brun M., Porte C., Gilabert A., Pampanin D.M., Monticelli G., Karlsten O.A. Complex mixture and omics responses in Atlantic cod: a time- and dose-response study. 21st International Symposium on Pollution Responses in Marine Organisms, PRIMO 21, Gothenburg, Sweden (May 22-25, 2022).
 104. Monticelli G., Magnuson J.T., Schlenk D., Bagi A., Pampanin D.M. Connecting gut microbiome changes and fish metabolism in oil exposure studies. 32nd SETAC (Society of Environmental Toxicology and Chemistry) Europe, Copenhagen, Denmark (May 15-19, 2022)
 105. Magnuson J., Longenecker-Wright Z., Monticelli G., Schlenk D., Sydnes M.O., Pampanin D.M Uptake and accumulation of amitriptyline in a polychaete, *Nereis virens*, exposed to field-collected sediment near a wastewater treatment discharge site in Norway 32nd SETAC (Society of Environmental Toxicology and Chemistry) Europe, Copenhagen, Denmark (May 15-19, 2022)

PEER-REVIEWD REPORTS FOR THE NORWEGIAN ENVIRONMENTAL AGENCY

1. Sundt R., Ruus A., Grung M. Pampanin D.M., Barsiene J., Skrphedinsdottir H. (2007) Water Column Monitoring 2006, pp. 236.
2. Brooks S., Pampanin D.M., Harman C., Aarab N., Sundt R. (2011) Water Column Monitoring 2011, Gulfaks C platform, pp. 64.
3. Sundt R., Brooks S., Grøsvik B.E., Pampanin D.M., Farmen E., Harman C., Meier S. (2012) Water column monitoring of offshore produced water discharges. Compilation of previous experience and suggestions for future survey design, International Research Institute of Stavanger Report 2012, pp 126.
4. Pampanin D.M., Le Goff J., Grøsvik B.E. DNA adducts in haddock and cod exposed to produced water (WCM2011 – laboratory exposure). International Research Institute of Stavanger Report 2013, pp 166.
5. Brooks S., Pampanin D.M., Harman C., Dunaevskava E. (2013) The Water Column Monitoring Programme 2013: Determining the biological effects of two offshore platforms on local fish populations, NIVA Report 6595, pp 61.
6. Pampanin D.M., Brooks S., Børseth J.F., Harman C., Gomiero A., Farmen E., Aarab N., Nerland I.L., Westerlund S., Grung M., Lucas C., Strålberg E. (2013) Water Column Monitoring 2012 Troll C platform, pp 95.
7. Brooks S., Pampanin D.M., Harman C., Grung M. (2015) Water Column Monitoring 2014: Determining the biological effects of an offshore platform on local fish populations, NIVA Report 6735, pp 79.
8. Thomas K.V., Langford K., Reid M., Vogelsang C., Øxnevad S., Bæk K., Fjeld E., Brooks S., Pampanin D.M., Nikiforov V., Schlabach M. (2016) Screening Programme 2015: Pharmaceuticals and hormones, NIVA Report 7076, pp 45.

9. Meier S., Karlsen Ø. Le Goff J., Sørensen L., Edvardsen R., Jentoft S., Skogland k., Fjellidal P.G., Pampanin D.M., Dunaevskaya E., Romano M., Myers M., Grøsvik B.E. DNA damage and health effects in juvenile haddock exposed to sediment or produced water associated PAHs. Institute of Marine Research Report n. 3 – 2017, pp 81.

10. Pampanin DM, Brooks S, Grøsvik BE, Sanni S 2019. Water Column Monitoring 2017. Environmental monitoring of petroleum activities on the Norwegian continental shelf 2017. NORCE-Environment REPORT 007 – 2019, pp 92.

Experiences from major research communication, dissemination, and outreach

Newspaper articles (chronicles)

1. Sydnes MO, Provan F, Pampanin DM – “Spis opp fisken din!” (Eat up your fish!). Dagens Næringsliv (2012), lørdag 12. May, pp 31.

2. Sydnes MO, Pampanin DM – “Kan spore oljesøl” (Can trace oil spills). Dagens Næringsliv (2015), fredag 16. Januar, pp 29.

3. Pampanin DM, Sydnes MO – “Fant kokain I ferskvannsreker. Dagens Næringsliv (2019), lørdag 22. June, pp 75.

4. Egeland M, Pampanin DM, Sydnes MO – “Legemidler havner i havet og tilbake på middagsbordet” (Pharmaceuticals end up in the ocean and back on our dinner table) forskning.no (2022), Saturday, January 8 <https://forskersonen.no/biologi-hav-og-fiske-kjemi/legemidler-havner-i-havet-og-tilbake-pa-middagsbordet/1962375>

Outreach

1. Pampanin DM. Invited speaker at Moby litter, one year later. June 21st Ancona Italy. From us to the sea: the journey of pharmaceutical compounds in / the environment (Da noi al mare: il viaggio dei composti farmaceutici ne/l'ambiente) <https://www.youtube.com/watch?v=S-sOqTYDBJk>

2. Becker-Aakervik, N.; Petrik, L.; Pampanin, D. M.; Egeland, M.; Marx, C.; Solomon, N.; Sydnes, M. O. From Toilet to Sea: Research collaboration to ensure safe water. Debate at the Science Forum South Africa, December 2, 2021 <https://videportal.rcn.no/#/videos/65a5ac33-a8b0-4bef-92eb-c8eac0ddf8c7>

APPOINTMENTS

- 2020/present EU coordinator for the Faculty of Science and Technology, University of Stavanger
- 2020/present. Leader of the Biochemistry Group at Faculty of Science and Technology, University of Stavanger
- 2020/present. Member of the Ocean Technology Innovation Cluster Stavanger (OTICS)
- 2019/present. Member of the admission committee for the MSc in Biological Chemistry (University of Stavanger)
- 2018/present – Organizer of the Summer School for Master students in Biodiversity, held at the Federal University of Rio de Janeiro (UFRJ), Macae, Brazil
- 2015/present - Member of the Working Group on Biological Effects of Contaminants (WGBEC) of ICES (International Council for the Exploration of the Sea)

- 2016 – Reviewer for Agence Nationale de la Recherche (ANR), French National Agency for Research
- 2010/2019 - Board member of the Norwegian Proteomics Society (NPS)
- 2014/2017 - Editor for Betham Science Publisher
- 2014/2015 - Guest Editor for Journal of Toxicology and Environmental Health, Taylor & Francis
- 2013/2015 - Board member of Tekna in IRIS
- 2013/2014 - Head of the Scientific Committee of the 5th NETS (Norwegian Environmental Toxicology Symposium)
- 2011/2018 - Thesis sensor for University of Stavanger
- 2005/2006 - Guest editor for Aquatic Toxicology, Elsevier
- 2005 Young investigator award from the Italian Society of Ecology
- 2004/2005 - Member of the organising committee for the 13th PRIMO (Pollution Responses in Marine Organisms) international symposium
- 2002/2003 - Member of the organising committee for the 22nd ESCPB- European Society of Comparative Physiology and Biochemistry conference.
- 2001/present – Reviewer for the following journals: *Aquaculture*, *Aquatic Toxicology*, *Ecotoxicology and Environmental Safety*, *Environmental Monitoring and Assessment*, *Journal of Toxicology and Environmental Health*, *Marine Ecology*, *Marine Environmental Research*, *Marine Pollution Bulletin*, *Proteomics*, *Science of Total Environment*.

SUPERVISED STUDENTS (PhDs, Masters and Bachelors) AND POST-DOCS

Post-doc: 3

PhD students: 8

Exchange students/internship: 12

Master students: 44

Bachelor students: 13

FELLOWSHIPS, AWARDS AND PRIZES

2019 Mobility grant for Researchers, University of Stavanger, Norway

2005 Young investigator award from the Italian Society of Ecology, Italy

2001-2004 Environmental Science School PhD Scholarship, Department of Environmental Science, Ca' Foscari University of Venice, Italy

1998-2001 EU Fellowship, Department of Biology, University of Padua, Italy