P I E R R E D E W I T

Associate Professor, University of Gothenburg, Department of Biological and Environmental Sciences

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1. Educational history

Docenture

2016-11-22, Marine Evolutionary Biology.

Doctoral degree

2010-03-05, Biology focusing on Systematics and Biodiversity. University of Gothenburg. Thesis title: "Systematics of *Grania* (Clitellata: Enchytraeidae), an interstitial annelid taxon". Supervisor: Prof. Christer Erséus.

Bachelor of Science

2003-05, Marine Biology. Hawaii Pacific University. Graduated with honors, *summa cum Laude*.

2. Employment history

Present position

2023-current, Associate Professor, University of Gothenburg, Department of Biological and Environmental Sciences.

Previous positions and periods of appointment

2018-2023, Researcher, University of Gothenburg, Department of Marine Sciences.
2014-2018, Assistant Professor, University of Gothenburg, Department of Marine Sciences.
2005-2010, Teaching Assistant, University of Gothenburg, Department of Biological and Environmental Sciences.
2002-2003, Associate Scientist, National Marine Fisheries Service, Honolulu, USA.
2002-2003, Assistant Scientist, Hawaii Pacific University, Honolulu, USA.
1999-1999, Laboratory Assistant, Chalmers University of Technology, Department of Material Science.

Postdoctoral positions

2012-2014, University of Gothenburg, Department of Biological and Environmental Sciences.
2010-2012, Stanford University, Department of Biology.

3. Pedagogical experience

Bachelor/Master's level

2023-, course organizer & teacher, Education for Sustainable Development (ESD200) and Conservation Biology in land environments (BIO281).
2023-, lecturer, Natural Resource Management (ES1300), General Biostatistics (BIO172).
2018-2023, course organizer, lecturer, Introduction Evolutionary Biology (MAR105, MAV106).
2015-2023, lecturer, courses in population biology (BIO214) and evolutionary biology (BIO217, basic level), and conservation genetics (BIO418, advanced level).
2005-2010, Part-time (20%) teaching assistant in a variety of Biology-related courses, such as General Biology, Invertebrate Zoology, Comparative Neurobiology and Marine Biology.

Ph.D. level

2013-2023, Course organizer, lecturer, Ph.D. course "Bioinformatic pipelines for population genomics and metagenetics".
2013-2017, Lecturer, CeMEB Ph.D. course in "Marine Evolution under Climate Change".
2014, Invited lecturer in workshop on bioinformatic data analysis methods, Oregon State University.
2013, Invited teacher at CeMEB marine genomics course
2013, Invited lecturer in workshop on bioinformatic data analysis methods, Cornell University 2013.
2011, Assistant instructor, 4-week Ph.D. course in "Transcriptomics of marine intertidal invertebrates".

Supervision

Main supervisor for Ph.D. student Naurtas Daraghmeh, began May 2024.

Assistant supervisor for Ph.D. student Cruise Speck (main supervisor Mats Lindegarth), began January 2024.
Main supervisor for Ph.D. student Chloé Robert, began September 2020.
Assistant supervisor for Ph.D. student Ellika Faust (main supervisor Carl André), defended May 2022.
Assistant supervisor for Ph.D. student Alexandra Kinnby (main supervisor Henrik Pavia), defended June 2021.
Assistant supervisor for Ph.D. student Evan Durland (main supervisors Chris Langdon and George Waldbusser), defended May 2019.
Assistant supervisor for Ph.D. student Alexander Ventura (main supervisor Sam Dupont), defended May 2018.
Assistant supervisor for Ph.D. student Allison Bailey (main supervisor Peter Thor), defended May 2017.
Main supervisor Master's student Keith Yamada, Fall 2015 – Spring 2016.
Main supervisor Master's student Leona Milec, Fall 2016.
Assistant supervisor Master's student Ellika Faust, Fall 2016-Spring 2017.
Main supervisor Master's student Simon Samuelsson, Spring 2017.
Main supervisor Master's student Eleni Koutsavakis, Spring-Fall 2018.
Main supervisor Master's student Malin Waern, Fall 2019-Spring 2020.
Main supervisor Master's student Felicia Fetscher, Fall 2019-Spring 2020.
Assistant supervisor Master's student Mariela Johansson, Fall 2020-Spring 2021.
Main supervisor Master's student Sebastiaan Wensveen, Fall 2021-Spring 2022.
Main supervisor Master's student Lucas Le Gall, Spring 2022.
Main supervisor Master's student Mickaela Eloranta, Spring 2023.
Main supervisor Master's student Zakaria Hachicho, Spring-Fall 2024.
Main supervisor Bachelor student Mickaela Eloranta, Fall 2020.
Main supervisor Bachelor student Isabella Honnér, Fall 2020.
Main supervisor Bachelor student Hugo Sundberg, Spring 2022.
Main supervisor Bachelor student Sofia Kamperin, Spring 2022.
Main supervisor Bachelor student Hanna Östling, Spring 2023.
Main supervisor ERASMUS trainee Gerrit Martens, Spring-Summer 2017.
Main supervisor ERASMUS trainee Juliette Armeni-Ripari, Summer-Fall 2017.
Main supervisor ERASMUS trainee Meret Neske, Spring 2022.
Main supervisor ERASMUS trainee Juliette Gutierrez, Spring 2022.
Main supervisor ERASMUS trainee Linn Wiberg, Summer 2022.
Main supervisor ERASMUS trainee Basile Pajot, Fall 2022.

4. Administrative experience

2021- current, Management Committee member, COST action SEA-UNICORN – EU functional connectivity network.
2019- current, steering committee member, the Linnaeus Centre for Marine Evolutionary Biology (CeMEB).
2023, Special issue guest editor, Evolutionary Applications.
2022-2023, European Marine Biological Resource Center (EMBRC) Sweden representative.
2022-2023, Assistant Laboratory Director, Tjärnö Marine Laboratory.
2022-2023, Committee member, Research Committee (FOB), Department of Marine Sciences, University of Gothenburg.
2021-2023, Coordinator for International Master of Science in Marine Biological Resources (IMBRSea) program for the University of Gothenburg.
2020-2023, Committee member, nomination committee, Department of Marine Sciences - Head of Department and Departmental Council, University of Gothenburg.
2020-2021, Basic Education Committee (GRUB) member, Department of Marine Sciences, University of Gothenburg.
2020, Conference organizer, "Evolution in Sweden 2020", in Strömstad, Sweden.
2018, International conference organizer, "Marine Evolution 2018", in Strömstad, Sweden.
2016-2023, coordinator (15 %) for exam students at both Bachelor's and Master's level at the Department of Marine Sciences at the University of Gothenburg.

2016-2017, steering committee member, the Linnaeus Centre for Marine Evolutionary Biology (CeMEB).
2016, Special issue guest editor, Evolutionary Applications.
2016-current, associate editor, Frontiers in Marine Science.
2016, Session organizer, Ocean Sciences meeting (OSM), New Orleans, USA.
2015, Session organizer, Association of Aquatic Sciences and Limnology (ASLO) meeting, Granada, Spain.
2014-2015 organization committee for Ph.D. education, Department of Marine Sciences at the University of Gothenburg.

5. Funding acquisition

Major grants received

Horizon Europe 2023 - *Improving Marine Habitat Status by Considering Ecosystem Dynamic (MARHAB)* (2024-2027). WP Leader (Project coordinator: IMR, Norway). UGOT budget €720 000.

InterReg ÖKS 2023 - *Klimatilpassede værktøjer til en bæredygtig blå bioøkonomi i Kattegat-Skagerrak (BlueBioClimate)* (Oct 2023 – Sept 2026). Swedish coordinator (Project Leader Jakob Hemmer-Hansen, DTU Aqua). Swedish Budget: €935 000

The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS) 2022. *Blue mussels in natural and artificial habitats: ecological, genetic and managerial consequences of interactions among subpopulations.* 3 M SEK (2023-2025). Co-applicant (PI Mats Lindegarth). WP leader.

Swedish Research Council (VR) 2021. *Dynamic Variation – Evolution within Inversions*. 3.4 M SEK (2022-2025). Principal Investigator.

Swedish Environmental Protection Agency 2020. *DynamO - Dynamic management of the invasive Pacific oyster in Sweden*. 4 M SEK (2021-2024). Co-applicant (PI Åsa Strand). WP leader, WP budget 1 M SEK.

European research council (ERC) Consolidator Grant 2020. *Evolution and mechanisms of thermal performance –answers through artificial selection in zebrafish (CLIMEVOLVE).* € 2 M (2021-2025). Co-applicant (PI Fredrik Jutfelt). WP leader, WP budget ca 50 K EUR.

The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS) 2019. *A long-term plan for management of a unique marine resource – Genetic status and future threats to the last natural stock of the European flat oyster* (*Ostrea edulis*). 3 M SEK (2020-2022). Principal Investigator.

EU Interregional Development Fund 2019. *MarGen II - Kapacitetsopbygning for øget bæredygtig vækst ved akvatiske miljøer i Kattegat-Skagerrak*. Ca. EUR 2 M (2019-2022). Co-applicant (PI Jacob Hemmer-Hansen). Gothenburg University budget ca. 900 K EUR.

The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS) 2018. *Does higher within species diversity increase resilience of seagrass beds to fluctuating future marine climates?* 3 M SEK (2019-2021). Co-applicant (PI Jon Havenhand). WP leader, WP budget ca. 850 K SEK.

Norwegian Polar Institute 2015. *Effects of Ocean Acidification on Arctic copepods.* 3 M NOK/ years for 3 years (2016-2018). Co-applicant (PI Peter Thor). Postdoctoral salary funding, plus consumables.

Oregon Sea Grant 2013. *Effects of Ocean Acidification on oyster juveniles. $90 000/year for 3 years (2014-2016).* Co-applicant (PI Chris Langdon). Funding for experimental work only, no salary funding acquired.

Marcus and Amalia Wallenberg's memory fund "Stig Hagström" Stipend 2010. *Genetic population structure of the commercially important Abalones in the Cape Mendocino region, California.* 2 years Postdoctoral stipend in California, plus 3 years additional funding upon return to Sweden (ca. $ 52 000/year for 5 years). Principal Applicant.

Minor stipends/research funding received

STINT Initiation Grant, 2020 (150 Kkr).
Linnaeus Centre for Marine Evolutionary Biology Grant, 2016 (130 Kkr).
Oregon Sea Grant, 2013 (100 Kkr).
Adlerbertska Foundation, 2013 (20 Kkr)."
Herbert and Karin Jacobsson's foundation, 2013 (15 Kkr).
Längmanska culture foundation, 2013 (20 Kkr), 2015 (10 Kkr), 2017 (30 Kkr), 2018 (15 Kkr).
Oregon State University "Laverne Weber" travel grant, 2013 (50 Kkr), 2014 (50 Kkr).
Magnus Bergvalls Stiftelse, 2012 (40 Kkr).
Helge Ax:son Johnson's Foundation, 2008 (13 Kkr), 2009 (15 Kkr), 2013 (30 Kkr), 2015 (40 Kkr), 2016 (25 Kkr), 2017 (25 Kkr), 2020 (30 Kkr).
Lundgren's Science Fund, 2006 (10 Kkr), 2007 (15 Kkr), 2008 (10 Kkr), 2013 (20 Kkr).
The Royal Society of Arts and Sciences in Göteborg, 2008 (15 Kkr), 2013 (15 Kkr), 2018 (14 Kkr).

Other awards received

The Swedish King Carl Gustav's 50-year fund, 2015 (85 Kkr).
Gothenburg University Natural Sciences Faculty Award for Distinguished Contribution in Education, 2020.

6. Conference Participation

Invited keynote speaker at the CEES Darwin Day, Oslo, Norway, February 2023
Oral presentation Evolution in Sweden 2023, Uppsala, Sweden, January 2023.
Conference organizer Centre for Marine Evolutionary Biology assembly, October 2022.
Oral presentation at the 6th International Marine Connectivity Conference, Paris, France, December 2021.
Conference organizer Centre for Marine Evolutionary Biology assembly, October 2021.
Invited speaker at the UN weeks seminar, Sophia University, Tokyo, Japan, October 2020.
Conference organizer Evolution in Sweden 2020, Strömstad, Sweden, January 2020.
Oral and poster presentations MIRAI sustainability symposium, Tokyo, Japan, October 2018.
Poster presentation Oslo Symposium on Ecology, Evolution and Genomics, Oslo, Norway, August 2018.
Poster presentation 2nd joint congress on Evolutionary Biology, Montpellier, France, August 2018.
Poster presentation Gordon conference on Ocean Global Change Biology, Waterville Valley, NH, USA, July 2018.
Workshop organizer and oral presentation MIRAI Sustainability workshop, Gothenburg, Sweden, June 2018.
Conference organizer and oral presentation Marine Evolution 2018, Strömstad, Sweden, May 2018.
Invited speaker at the Joint Symposium of Eco-Evolutionary Dynamics and Flanders Annual Meeting of Ecology, Gent, Belgium, December 2016.
Invited speaker at the 2nd Interdisciplinary Symposium on Ocean Acidification and Climate Change, Hong Kong, December 2016.

Session organizer at the Society for Molecular Biology and Evolution Conference, Gold Coast, Australia, July 2016.
Invited speaker at the European Scientific Diving Conference, Kristineberg, Sweden, May 2016.
Session organizer at the Ocean Sciences Meeting, New Orleans, February 2016.
Oral presentation at the Ocean Sciences Meeting, New Orleans, February 2016.
Oral presentation at ICES Annual Science Conference, Copenhagen, September 2015.
Oral presentation at the International Symposium on Aquatic Oligochaeta, Brno, September 2015.
Session organizer at the Association of Aquatic Sciences and Limnology meeting, Granada, Spain, February 2015.
Oral presentation at the Association of Aquatic Sciences and Limnology meeting, Granada, Spain, February 2015.
Invited speaker at the Gordon Research Conference in Marine Molecular Ecology, Hong Kong University of Science and Technology, Hong Kong, August 2013.
Invited speaker at the American Genetics Association's Non-model Genomics Workshop, Cornell University, Ithaca, NY, July 2013.
Poster at the Genetics of adaptation symposium, Uppsala, 2013.
Invited speaker at the Symposium of Fishery and Aquatic Sciences, Eskisehir, Turkey, 2012.
Oral presentation at the Linnaeus Center for Marine Evolutionary Biology meeting, Tjärnö, 2012.
Oral presentation at the joint symposium on Evolutionary Biology, Ottawa, Canada, 2012.
Oral presentation at the iEvoBio software development conference, Ottawa, Canada, 2012.
Poster at Systematikdagarna 2009, Stockholm.
Oral presentation at the International Symposium on Aquatic Oligochaeta, Antalya, Turkey, 2009.
Poster at Systematikdagarna 2008, Uppsala.
Poster at Systematikdagarna 2007, Lund.
Poster at the International Symposium on Aquatic Oligochaeta, Wuhan , China, 2006.

7. Other scientific merits

Open access computer programs

The Simple Fool's Guide to population genomics via RNA-Seq. DNA analysis pipeline. Available at http://sfg.stanford.edu
Chimerachecker. DNA analysis software. Available at http://www.emerencia.org/chimerachecker.html
ITSx. DNA analysis software. Available at http://microbiology.se/software/itsx/

Departmental Seminars

Department of materials and life sciences, Sophia University, Tokyo, Japan, 2023.
Aquaculture Division, FBA, Nord University, Bodø, Norway, 2021
Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, 2017.
Department of Biology, University of Silesia in Katowice, Poland, 2017.
ARCTOS seminar, UiT Tromsö, Norway, 2016.
Hatfield Marine Science Center, Oregon State University, Newport, Oregon, USA, 2014.
Department of Marine Ecology at Helmholtz Centre for Ocean Research (GEOMAR), Kiel, Germany, 2013.
Department of Systematic Biology at Uppsala University, 2013.
Sven Lovén Centre for Marine Sciences, Kristineberg, 2012.
Department of Biology, UCLA, 2012.
Department of Biology, Hawaii Pacific University, 2012.
Hopkins Marine Station of Stanford University, 2010.

8. *Publications*

Peer-reviewed articles

Rieder, J., Jahnke, M., André, C., Christiansen, H., **De Wit, P.**, Faust, E., Green, L., Jonsson, P.R., Laikre, L., Laugen, A.T., Rafajlović, M., Sandström, A., Tomasini, M., Volckaert, F.A.M. (in review). Seascape

genomics: assisting marine biodiversity management by combining genetic knowledge with environmental and ecological information. Marine Policy. Pre-print available on EcoEvoRxiv : https://ecoevorxiv.org/repository/view/5586/.

Gustafsson, M., Strand, Å., Laugen, A.T., Albretsen, J., André, C., Broström, G., Jorde, P.E., Knutsen, H., Ortega-Martinez, O., Sodeland, M., Waern, M., Wrange, A-L., **De Wit, P.** (in press). Unlocking the secret life of blue mussels: Exploring connectivity in the Skagerrak through biophysical modeling and population genomics. Evolutionary Applications.

Bachimanchi, H., Pinder, M. I., Robert, C., **De Wit, P.**, Havenhand, J., Kinnby, A., Midvedt, D., Selander, E., Volpe, G. (2024). Deep-learning-powered data analysis in plankton ecology. Limnology and Oceanography Letters. Available online: https://doi.org/10.1002/lol2.10392.

Li, A., Zhao, M., Zhang, Z., Wang, C., Zhang, K., Zhang, X., **De Wit, P.**, Wang, W., Gao, J., Guo, X., Zhang, G., Li, L. (2023). Genome architecture and selective signals compensatorily shape plastic response to a new environment. The Innovation 4 : 100464.

Pereyra, R.T., Rafajlović, M., **De Wit, P.**, Pinder, M., Kinnby, A., Töpel, M. & Johannesson, K. (2023). Clones on the run - the genomics of a recently expanded facultative asexual species. Molecular Ecology 32 : 4209-4223.

De Wit, P., Faust, E., Green, L., Jahnke, M., Pereyra, R. T., & Rafajlović, M. (2023). A decade of progress in marine evolutionary biology. Evolutionary Applications 16: 193-201.

Eriksson, M., Kinnby, A., **De Wit, P.** & Rafajlović, M. (2023) Adaptive, maladaptive, neutral, or absent plasticity: Hidden caveats of reaction norms. Evolutionary Applications 16: 486-503.

Durland, E., **De Wit, P.**, & Langdon, C. (2022). Genetic changes in larval oysters are more abundant and dynamic than can be explained by rare events or error. A response to Hedgecock (2022). Proceedings of the Royal Society B 289: 20220197.

Milec, L., Jormalainen, V., Pereyra, R.T., Rugiu, L., Rothäusler, E., Havenhand, J. & **De Wit, P.** (2022). Double-edged sword of desalination: decreased growth and increased grazing endanger range-margin *Fucus* populations. Journal of Experimental Marine Biology and Ecology 547: 151666.

De Wit, P., Svanberg, L., Sundell, K., Eriksson, S., Casties, I. & André, C. (2022). Single nucleotide polymorphisms are suitable for assessing the success of restocking efforts of the European lobster (*Homarus gammarus,* L.). Conservation Genetics Resources 14 : 47-52.

Durland, E., **De Wit, P.**, & Langdon, C. (2021). Temporally-balanced selection during development of larval Pacific oysters (*Crassostrea gigas*) inherently preserves genetic diversity within offspring. Proceedings of the Royal Society B. Biological Science 288: 20203223.

Durland, E., **De Wit, P.**, Meyer, E. & Langdon, C. (2021). Larval development in the Pacific oyster and the impacts of ocean acidification: Differential genetic effects in wild and domesticated stocks. Evolutionary Applications 14: 2258–2272.

Rugiu, L., **De Wit, P.**, Manninen, I. & Jormalainen, V. (2021). Climate change driven hyposalinity as a selective agent in the littoral mesoherbivore *Idotea balthica*. Marine Environmental Research 163: 105216.

De Wit, P., Jonsson, P.R., Pereyra, R.T., Panova, M., André, C. & Johannesson, K. (2020). Spatial genetic structure in a crustacean herbivore highlights the need for local considerations in Baltic Sea biodiversity management. Evolutionary Applications 13: 974-990.

Fitzer, S.C., Chan, V.B.S., Meng, Y., Chandra Rajan, K., Michio, S., Not, C., Toyofuku, T., Falkenberg, L., Byrne, M., Harvey, B.P., **De Wit, P.**, Cusack, M., Gao, K.S., Taylor, P., Dupont, S., Hall-Spencer, J. & Thiyagarajan, V. (2019). Established and emerging techniques for characterising the formation, structure and performance of calcified structures under ocean acidification. Oceanography and Marine Biology: An Annual Review 57.

Kinnby, A., Pereyra, R.T., Havenhand, J.N., **De Wit, P.**, Pavia, H. & Johannesson, K. (2019). Factors affecting formation of adventitious branches in the seaweeds *Fucus vesiculosus* and *F. radicans*. BMC Ecology 19:22.

Erséus, C., Klinth, M.J., Rota, E., **De Wit, P.**, Gustafsson, D.R. & Martinsson, S. (2019). The popular model annelid *Enchytraeus albidus* is only one species in a complex of seashore White Worms (Clitellata, Enchytraeidae). Organisms, Diversity and Evolution 19: 105-133.

Havenhand, J.N., Filipsson, H.L., Niiranen, S., Troell, M., Crépin, A.-S., Jagers, S., Langlet, D., Matti, S., Turner, D., Winder, M., **De Wit, P.** & Anderson, L.G. (2019). Ecological & functional consequences of coastal ocean acidification: perspectives from the Baltic-Skagerrak system. AMBIO 48: 831–854.

De Wit, P., Yamada, K., Panova, M., André, C. & Johannesson, K. (2018). Diet-dependent gene expression highlights the importance of Cytochrome P450 in detoxification of algal secondary metabolites in a marine isopod. Scientific Reports 8: 16824.

Li, L., Li, A., Song, K., Meng, J., Li, S., Guo, X., Li, C., **De Wit, P.**, Que, H., Wu, F., Wang, W., Qi, H., Xu, F., Cong, R., Huang, B., Li, Y., Wang, T., Tang, X., Liu, S., Li, B., Shi, R., Liu, Y., Bu, C., Zhang, C., He, W., Li, H. & Zhang, G. (2018). Divergence and plasticity shape adaptive potential of the Pacific oyster. Nature Ecology and Evolution 2: 1751-1760.

De Wit, P., Durland, E., Ventura, A. & Langdon, C. (2018). Gene expression correlated with initial shell formation in larval Pacific oysters (*Crassostrea gigas*) exposed to experimental ocean acidification reveals the major steps of biomineralization. BMC Genomics 19:160.

Bergin, C., Wentrup, C., Brewig, N., Blazejak, A., Erséus, C., Giere, O., Schmid, M., **De Wit, P.** & Dubilier, N. (2018). Acquisition of a novel sulfur-oxidizing symbiont in the gutless marine worm *Inanidrilus exumae*. Applied and Environmental Microbiology 84: e02267-17.

Thor, P., Bailey, A., Dupont, S., Calosi, P., Søreide, J.E., **De Wit, P.**, Guscelli, E., Loubet-Sartrou, L., Deichmann, I.M., Candee, M.M., Svensen, C., King, A.L. & Bellerby, R.G.J. (2018). Contrasting physiological response to future ocean acidification among Arctic copepod populations. Global Change Biology 24: e365-e377.

Świątek, P., **De Wit, P.**, Jarosz, N., Chajec, Ł. & Urbisz, A.Z. (2018). Micromorphology of ovaries and oogenesis in *Grania postclitellochaeta* (Clitellata: Enchytraeidae). Zoology 126: 119-127.

Erséus, C., Envall, I., **De Wit, P.** & Gustavsson, L.M. (2017). Molecular data reveal a tropical freshwater origin of Naidinae (Annelida, Clitellata, Naididae). Molecular Phylogenetics and Evolution 115:115-127.

Bailey, A., **De Wit, P.**, Thor, P., Browman, H.I., Bjelland, R., Shema, S., Fields, D.J., Runge, J.A., Thompson, C. & Hop, H. (2017). Regulation of gene expression is associated with tolerance of the Arctic copepod *Calanus glacialis* to CO_2-acidified seawater. Ecology and Evolution 7: 7145–7160.

Zimmerman, J., Wentrup, C., Sadowski, M., Blazejak, A., Gruber-Vodicka, H., Kleiner, M., Ott, J., Cronholm, B., **De Wit, P.**, Erséus, C. & Dubilier, N. (2016). Closely coupled evolutionary history of ecto- and endosymbionts from two distantly-related animal phyla. Molecular Ecology 25: 3203-3223.

Calosi, P., **De Wit, P.**, Thor, P. & Dupont, S. (2016). Will life find a way? Evolution of marine species under global change. Evolutionary Applications 9: 1035-1042.

De Wit, P., Dupont, S. & Thor, P. (2016). Selection on genes involved in oxidative phosphorylation and ribosomal structure as a multigenerational response to ocean acidification in an arctic copepod. Evolutionary Applications 9: 1112-1123.

Prantoni, A.L., **De Wit, P.** & Erséus, C. (2016). First reports of *Grania* (Clitellata: Enchytraeidae) from Africa and South America - Molecular phylogeny and descriptions of nine new species. Zoological Journal of the Linnean Society 176: 485-510.

De Wit, P., Pespeni, M. & Palumbi, S.R. (2015). SNP genotyping and population genomics from expressed sequences –current advances and future possibilities. Molecular Ecology 24: 2310-2323.

Mejlon, E., **De Wit, P.**, Matamoros, L. & Erséus, C. (2015). DNA-based phylogeny of the marine genus *Heterodrilus* (Annelida, Clitellata, Naididae). Journal of Zoological Systematics and Evolutionary Research 53: 194-199.

De Wit, P., Rogers-Bennett, L., Kudela, R.M. & Palumbi, S.R. (2014). Forensic genomics as a novel tool for identifying the causes of mass mortality events. Nature Communications 5: 3652.

Bengtsson-Palme, J., Ryberg, M., Hartmann, M., Branco, S., Wang, Z., Godhe, A., **De Wit, P.**, Sánchez-García, M., Ebersberger, I., de Sousa, F., Amend, A., Jumpponen, A., Unterseher, M., Kristiansson, E., Abarenkov, K., Bertrand, Y.J.K., Sanli, K., Eriksson, K.M., Vik, U., Veldre, V. & Nilsson, R.H. (2013). Improved software detection and extraction of ITS1 and ITS2 from ribosomal ITS sequences of fungi and other eukaryotes for analysis of environmental sequencing data. Methods in Ecology and Evolution 4: 914-919.

De Wit, P. & Palumbi, S.R. (2013). Transcriptome-wide polymorphisms of red abalone (*Haliotis rufescens*) reveal patterns of gene flow and local adaptation. Molecular Ecology 22: 2884-2897.

De Wit, P., Pespeni, M.S., Ladner, J.T., Barshis, D.J., Seneca, F., Jaris, H., Therkildssen, N., Morikawa, M. & Palumbi, S.R. (2012). The Simple Fool's Guide to Population Genomics via RNA-Seq: An introduction to high-throughput sequencing data analysis. Molecular Ecology Resources 12: 1058-1067.

De Wit, P., Rota, E. & Erséus, C. (2011). Phylogeny and character evolution in *Grania* (Annelida, Clitellata). Zoologica Scripta 40 : 509-519.

De Wit, P., Erséus, C. & Gustavsson, L.M. (2011). Ultrastructure of the body wall of three species of *Grania* (Annelida: Clitellata: Enchytraeidae). Acta Zoologica 92 (1): 1-11.

Erséus, C., Rota, E., Matamoros, L. & **De Wit, P.** (2010). Molecular phylogeny of Enchytraeidae (Annelida, Clitellata). Molecular Phylogenetics and Evolution 57: 849-858.

De Wit, P. & Erséus, C. (2010). Genetic variation and phylogeny of Scandinavian species of *Grania* (Annelida: Clitellata: Enchytraeidae), with the discovery of a cryptic species. Journal of Zoological Systematics and Evolutionary Research 48 (4): 285-293.

Nilsson, R.H., Abarenkov, K., Veldre, V., Nylinder, S. **De Wit, P.**, Brosché, S., Alfredsson, J.F., Ryberg, M. & Kristiansson, E. (2010). An open source chimera checker for the fungal ITS region. Molecular Ecology Resources 10: 1076-1081.

Zhou, H., Fend, S.V., Gustafson, D.L., **De Wit, P.** & Erséus, C. (2010). Molecular phylogeny of Nearctic species of *Rhynchelmis* (Annelida). Zoologica Scripta 39 (4): 378-393.

De Wit, P., Rota, E. & Erséus, C. (2009). *Grania* (Annelida: Clitellata: Enchytraeidae) of the Great Barrier Reef, Australia, including four new species and a re-description of *Grania trichaeta* Jamieson, 1977. Zootaxa 2165: 16-38.

De Wit, P. & Erséus, C. (2007). Seven new species of *Grania* (Annelida: Clitellata: Enchytraeidae) from New Caledonia, South Pacific Ocean. Zootaxa 1426: 27-50.

Other academic works

Gustafsson, M., **De Wit, P.**, Robert, C., Wrange, A. L., Laugen, A. T., & Strand, Å. (2023). Kunskapsunderlag för en enhetlig förvaltning av OSPAR-listade Mytilus-och Ostrea-bankar Del 3–Underlag för bedömning av bevarandevärde av Mytilus-och Ostrea-bankar. ISBN: 978-91-7883-464-8.

Havenhand, J.N., Crépin, A.S., Filipsson, H.L., Jagers, S., Langlet, D., Matti, S., Niiranen, S., Troell, M. & Anderson, L.G., Contributing authors: Galaz, V., Kritzberg, E., Turner, D., Winder, M., **De Wit, P.** (2017). Acidification in Swedish Seas in a changing environment: Causes, Consequences and Responses – An interdisciplinary review of current knowledge, knowledge gaps and implementation needs. Report to the Environmental Committee of the Swedish Royal Academy of Sciences.

De Wit, P. (2016). 8. SNP Discovery Using Next Generation Transcriptomic Sequencing. In: Marine Genomics – Methods and Protocols (ed. Sarah Bourlat). Methods in Molecular Biology. Springer. ISBN : 9781493937745.

De Wit, P. (2010). Systematics of *Grania* (Clitellata: Enchytraeidae), an interstitial annelid taxon. ISBN 978-91-628-8012-5. Gothenburg, Sweden, Intellecta Infolog.

De Wit, P. (2006). *Grania maricola*. Fauna & Flora 101:2: 25.