

Sven LE MOINE BAUER

Personal details

Nationality	French	Date of Birth	28/05/1988
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Education

2013 - 2017	Ph.D. in Marine Microbial Ecology at the Center of Excellence in Geobiology, University of Bergen (Norway). Thesis title: "Impact of environmental parameters and dispersal on microbial communities in hydrothermal areas of the Nordic Seas".
2009 - 2011	Erasmus Mundus M.Sc. in Marine Biodiversity and Conservation from the University of Ghent (Belgium), University of Bremen (Germany), University of Oviedo (Spain), University Pierre and Marie Curie (France), University of Algarve (Portugal), and University of Klapeida (Lithuania). Master thesis in environmental virology at the Danish Archaea Center, University of Copenhagen , (Denmark). Graduated with great distinctions.
2008-2009	B.Sc. in Environmental Biology from the Edinburgh NAPIER University (Scotland).
2006 - 2008	French University Diploma of Technology in Environmental Biology from the IUT of Biology , Brest (France).

Academic work experience

2018 -	Postdoctoral position in geomicrobiology at the Center for Deep Sea Research , Dept. of Earth Science, University of Bergen (Norway).
2017 - 2018	Research position in microbiology at the K.G. Jebsen Center for Deep Sea Research , Dept. of Earth Science, University of Bergen (Norway).
2012	Research position in environmental virology at the Danish Archaea Center , University of Copenhagen, (Denmark).
2010	Internship in virology at the Laboratory of Virology and Parasitology , University of Oviedo (Spain).
2010	Student research position in microbiology at the Max Planck Institute for Marine Microbiology , Bremen (Germany).
2008	Internship in molecular biology and biochemistry at the Laboratory of Microbiology of Extreme Environments , IFREMER, Brest (France).

Teaching and supervision

2020 -	Co-supervisor of one PhD student.
2019 -	- Course designer and co-leader (GEOV114) at the University of Bergen - Teacher of laboratory practicals, lectures, and field trips (GEOV114 and GEOV245)
2016 - 2020	Supervision of two master students and two international trainees
2013 - 2017	- Course designer (BIO103) at the University of Bergen - Teaching assistant at the Dept. of Biology at the University of Bergen

Personal grants and awards

2021	University of Bergen's Klimafond – 100 000 NOK
2021	L. Meltzers Høyskolefond 2021 – Travelling grant – 10 000 NOK
2019	L. Meltzers Høyskolefond 2019 – Travelling grant – 12 000 NOK
2011	- Erasmus grant – 6 000 NOK - Best thesis defense award of the EMBC cohort 2009-2011

Leading and organizing experience

2021 -	- Geomicrobiology laboratory manager at the University of Bergen - Leader of the RecycLABle project at the Center for Deep Sea Research - Research coordinator at the Center for Deep Sea Research
2019 -	- Leader of the microbiology unit of the CarDHynAl international project - Course co-leader (GEOV114) at the University of Bergen
2016 -	Seminar organizer at the Center for Deep Sea Research
2021	Scientific workshop organizer at the Center for Deep Sea Research

Science communication and outreach

2021 -	- Responsible for the website of the Center for Deep Sea Research - Postdoc member of NORBIS (Norway)
2013 -	Regular participation in outreach and awareness events, such as Forskningsdagene and Passion for Ocean day
2022	Microenergy workshop 2022 (Sønderborg, Denmark)
2020	Cruise report writer for the Center for Deep Sea Research
2018	Norwegian Society for Microbiology workshop 2018 (Bergen)
2014	- SocBiN Bioinformatics meeting 2014 (Oslo) - Archaea 2014 (Brest, France)

Main collaborations

2019 -	- Senior scientist Javier Escartin, University of Paris (France) - Senior lecturer Jean-Emmanuel Martelat, University of Lyon (France) - Research director Nuno Gracias, University of Girona (Spain)
2017 -	Prof. Dr. Dietrich Kohlheyer, Jülich forschungszentrum (Germany)
2016 -	- Senior Engineer Stephane L'Haridon, IUEM (France) - Centre director Didier Flament, IFREMER (France)

Languages

French, English, German, Norwegian, Spanish

Publications

Jørgensen, S. L., Møller, T.E., **Le Moine Bauer, S.**, Hannisdal, B., Thorseth, I.H., Pedersen, R. B., Zhao, R., Baumberger, T., Roerdink, D. L. (2021 In prep for Nature communication) Constrains on in situ growth rates in the deep sedimentary biosphere.

Le Moine Bauer, S., Møller, T.E., Brendryen, J., Börocz, R., Thorseth, I.H., Jørgensen, S. L. (2021 In prep for Environmental microbiology) Ultra high resolution sampling elucidates the impact of physical and solid geochemical factors on microbial community composition in marine sediments.

Le Moine Bauer, S., Goulaouic, S., Lu, G.S., Puzenat, V., Escartin, J., Martelat, J-E., Barreyre, T., Polymenakou, P., Schouw, A., Vlasopoulos, O, Amend, J., Jørgensen, S.L. (2021 In prep for Frontiers in microbiology) Microbiology of the hydrothermal field of Paleochory bay, Milos Island, Greece.

Møller, T.E., **Le Moine Bauer, S.**, Hannisdal, B., Thorseth, I.H., Pedersen, R. B., Zhao, R., Baumberger, T., Roerdink, D. L., Jørgensen, S. L. (2021 In prep for ISME journal) Mapping microbial response to changing oxygen concentration in deep-sea sediments using support vector machines and differential expression.

Puzenat, V., Escartin, J., Martelat, J-E., Barreyre, T., **Le Moine Bauer, S.**, Nomikou, P., Graccias, N., Allemand, P., Antoniou, V., Coskun, O, Garcia, R., Grandjean, P., Jørgensen, S. L., Magi, L., Mandalakis, M., Orsi, W., Polymenakou, P., Schouw, A., Vallicrosa, G., Vlasopoulos, O. (Under review) Shallow-water hydrothermalism at Milos (Greece): Nature, distribution, heat fluxes and impact on ecosystems. *Marine Geology*

Roalkvam, I., **Le Moine Bauer, S.**, Powell, M. (2021) Sequencing reveals different nitrifying bacteria in freshwater and seawater RAS biofilters. *Hatchery Feed and Management* **9**

Le Moine Bauer, S., Sjøberg, A.G., L'Haridon, S., Stokke, R., Roalkvam, I., Steen, I.H., Dahle, H. (2019) *Profundibacter amoris* gen. nov., sp. nov., a new member of the *Roseobacter* clade isolated from Loki's Castle Vent Field on the Arctic Mid-Ocean Ridge. *International Journal of Systematic Evolution and Microbiology* DOI 10.1099/ijsem.0.003234

Le Moine Bauer, S., Stensland, A., Daae, F.L., Sandaa, R-A., Thorseth, I. H., Steen, I. H., Dahle, H. (2018) Water masses and depth are the major factors structuring prokaryotic and viral communities around hydrothermal systems of the Nordic Seas. *Frontiers in Microbiology* **9** 1002

Dahle, H., **Le Moine Bauer, S.**, Baumberger, T., Stokke, R., Pedersen, R. B., Thorseth, I. H., Steen, I. H. (2018) Energy landscapes in hydrothermal chimneys shape distributions of primary producers. *Frontiers in microbiology* **9** 1570

Wissuwa, J., **Le Moine Bauer, S.**, Steen, I.H., Stokke, R. (2017) Complete genome sequence of *Lutibacter profundus* LP1^T isolated from an Arctic deep-sea hydrothermal vent system. *Standards in Genomic Sciences* **12** DOI 10.1186/s40793-016-0219-x

Le Moine Bauer, S., Roalkvam, I., Steen, I.H., Dahle, H. (2016) *Lutibacter profundus* sp. nov., isolated from a deep-sea hydrothermal system on the Arctic Mid-Ocean Ridge and emended description of the genus *Lutibacter*. *International Journal of Systematic Evolution and Microbiology* **66** 2671-2677

Erdmann, S., **Le Moine Bauer, S.**, Garrett, R.A. (2014) Inter-viral conflicts that exploit host CRISPR immune systems of *Sulfolobus*. *Molecular Microbiology* **91** 900-917

Erdmann, S., Chen, B., Huang, X., Deng, L., Liu, C., Shah, S.A., **Le Moine Bauer, S.**, Sobrino, C/L., Wang, H., Wei, Y., She, Q., Garrett, R.A., Huang, L., Lin, L. (2014) A novel single-tailed fusiform *Sulfolobus* virus STSV2 infecting model *Sulfolobus* species. *Extremophiles* **18** 51-60

References:

Steffen Leth Jørgensen is my group leader, while Bjarte Hannisdal is co-leading the GEOV114 course with me.

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