

Anton F. Post, PhD

Executive Director and Professor

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Education

Postdoctorate	(1988)
<i>Hebrew University</i>	
PhD in General Microbiology	(1983 -1987)
<i>University of Amsterdam</i>	
MSc in Aquatic Microbial Ecology	(1977- 1980)
<i>University of Amsterdam</i>	
BSc in Biology	(1974 - 1977)
<i>University of Amsterdam</i>	

Current Appointments

Professor (adjunct)	(2017 - present)
<i>Graduate School of Oceaography, University of Rhode Island</i>	
Senior Scientist (Adjunct)	(2015 - present)
<i>Josephine Bay Paul Center, Marine Biological Laboratory</i>	
Professor (Adjunct)	(2012 - present)
<i>Dept of Ecology and Evolutionary Biology, Brown University</i>	

Past Appointments

Executive Director and Professor	(2014 - 2016)
<i>Coastal Resources Center, University of Rhode Island</i>	
Program Director	(2012 - 2014)
<i>Division of Ocean Sciences, National Science Foundation, Arlington, VA</i>	
Senior Scientist	(2008 - 2014)
<i>Josephine Bay Paul Center, Marine Biological Laboratory, Woods Hole, MA</i>	
Full Professor	(2004 - 2008)
Associate Professor	(2000 - 2004)
Senior Lecturer	(1993 - 2000)
<i>Interuniversity Institute for Marine Science, Hebrew University, Jerusalem, Israel</i>	
Senior Research Associate	(1991 - 1993)
Research Associate	(1989 - 1991)

Division of Microbial and Molecular Ecology, Hebrew University, Jerusalem, Israel

Lecturer (1988 - 1989)
Senior Assistant Researcher (1986 - 1987)
Assistant Researcher (1980 - 1986)
Teaching Assistant, Instructor (1978 - 1980)

Department of Microbiology, University of Amsterdam, Netherlands

Consultant Services

2011- UEP Consultants, Urban and Environmental Planning, *Falmouth MA*

Fellowships and Awards

1983 Graduate Student Exchange, *Brookhaven National Lab, Upton NY.*
1987 EU Exchange Program, *National Institute of Basic Biology, Okazaki, Japan.*
1988-1989 Excellence in Science Program, *Royal Dutch Academy of Sciences.*
1991 Academic Challenge Fellowship, *Bowling Green State University, OH.*
1994 Royal Society Fellowship, *University of Warwick, UK.*
2000-2001 Visiting Scholar, MIT, *Cambridge MA.*
2005-2008 Gruss-Lipper Fellowship, *Marine Biology Laboratory, Woods Hole MA.*

Academic activities

1996-2008 Member, Minerva Research Center for Marine Biogeochemistry, Hebrew University.
1999-2008 Board of Directors, Interuniversity Institute for Marine Science, Eilat.
2000- Advisory Board, International Review of Hydrobiology.
2000 Chair, 2nd Workshop on Molecular Ecology of *Prochlorococcus*, Eilat.
2001-2003 Chair, Marine Sciences Program, Interuniversity Institute for Marine Science, Eilat.
2002-2008 Committee for Academic Promotions and Tenure, Life Sciences Institute, Hebrew University.
2002-2008 Member, Minerva Research Center for Photosynthesis, Hebrew University.
2003-2009 Editorial Board, "Photosynthetica", Intl. Journal for Photosynthesis Research.
2005-2007 Chair, Plant and Environmental Sciences Program, Hebrew University.
2006-2008 Director, Minerva Research Center for Marine Biogeochemistry, Hebrew University.
2006-2008 Review Committee of the Kinneret Limnological Laboratory, Israel
2008-2012 Editorial Board, ASM Applied and Environmental Microbiology.
2009-2011 Mentor, ASM-MURF (Undergraduate Research in Microbiology) Program.
2009- Evaluator, EU FP7 Research Programs.
2010 NSF-GEO Panel on Ocean Acidification.
2010- Associate Editor, *Frontiers in Aquatic Microbiology.*
2011 NSF-BIO Panel on Metabolism and Microbial Communities.
2012- Associate Editor, *Journal of Phycology.*
2012 Member, Nominating Committee for MBL Science Council.

2012-2016 Member, Strategic Advisory Board, MaCuMBA Project, EU.
2013-2014 NSF Site Visit team, Science and Technology Center for Dark Energy Biosphere Investigations (C-DEBI).
2015-2016 Member, Planning Committee of the Scott Nixon Lecture, GSO-URI.
2015-2016 Member, Council for Research, URI.
2016 Senator, Faculty Senate, URI.
2016- Member, Scientific Steering Committee, Ocean Carbon Biogeochemistry.
2016-2017 Member, Organizing Committee of 2017 Narragansett Bay Watershed Summit.

Research cruises

- 1994 R/V IUI, First Joint Eritrea-Israel Red Sea Expedition (Eilat–Massawa–Eilat).
1999 R/V Meteor, cruise leg M44/2 in Northern Red Sea (Suez–Aqaba).
2002 R/V Red Sea Explorer, Second Seychelles-Israel Expedition (Chief Scientist).
2006 R/V Polarstern, cruise leg ANT XXIII/4, Bellinghausen-Amundsen Seas (Punta Arenas–Punta Arenas).
2010 R/V Nathaniel B. Palmer, cruise leg NBP 10-05 (ASPIRE) in Amundsen Sea (Punta Arenas-McMurdo base).
2011 R/V Blue Heron, SINC 16 (Sources and Sinks of Stochiometrically Imbalanced Nitrate in the Great Lakes) Cruise, first leg in Lake Superior and Lake Huron.
2012 R/V Thompson, POWWOW (Seasonal and decadal changes in temperature drive *Prochlorococcus* ecotype distribution patterns), leg Honolulu to San Diego.
2013 R/V Nathaniel B. Palmer, cruise leg NBP 13-10 (PHAntastic) to Amundsen and Ross Sea (Punta Arenas-Hobarth).
2014 R/V Nathaniel B. Palmer, cruise leg NBP 14-09 (PHAntastic) to Antarctic Western Peninsula (Punta Arenas-Punta Arenas).
2016 R/V Endeavor EN578 cruise, Ft Lauderdale – Bermuda – Narragansett transect.
R/V Endeavor EN581 cruise, New England Continental Shelf break.

Teaching

- 1979-1980 Teaching assistant for courses in *General Microbiology*.
1980-1989 Supervisor in MSc and PhD research projects, University of Amsterdam.
1983-1987 *General Microbiology* course, University of Amsterdam.
1989-2009 Supervisor in MSc and PhD research projects, Hebrew University.
1992-2005 *Ecosystem of the Red Sea*, Interuniversity Institute for Marine Science.
1993-2007 *Marine Microbiology*, Interuniversity Institute for Marine Science.
1994-2007 *Molecular Ecology*, Hebrew University.
1994-2005 *Microbial Adaptation to Environmental Stress*, Hebrew University.
2003-2007 *Physiology and Biochemistry of Photosynthesis*, Hebrew University.
2005-2007 *Introduction to Plant Sciences*, Hebrew University.

Professional Societies

- American Society for Limnology and Oceanography.
American Phycological Society
American Society for Microbiology
Marine Biological Laboratory Corporation

Reviewer for

Applied and Environmental Microbiology, Archives of Microbiology, Microbiology, Environmental Microbiology, ISME Journal, FEMS Microbiology Letters, FEMS Microbiology Ecology, Aquatic Microbial Ecology, Frontiers of Aquatic Microbiology, Molecular Ecology, International Reviews for Hydrobiology, Journal of Plankton Research, Harmful Algae, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series, Journal of Phycology, Biochimia Biophysica Acta, Photosynthetica, Proceedings of the National Academy of Science, Science, Nature, Aquatic Sciences, National Science Foudation (Biological and Chemical Oceanography, Polar Biology, Molecular and Cellular Bioscience, Marine Geology/Geoscience), US-Israel Binational Science Foundation, Germany-Israel Foundation, US-Israel Binational Argicultural Research and Development, Israel Science Foundation, NOAA Seagrant, European Union Framework (FP3-FP7), Ring Family Foundation, Council for Higher Education in Israel.

Scientific publications (peer reviewed)

1. Loogman J.G., **Post A.F.** and L.R. Mur (1980). The influence of the periodicity in light conditions as determined by the trophic state of the water, on the growth of the green alga *Scenedesmus protuberans* and the cyanobacterium *Oscillatoria agardhii*. in: Hypertrophic Ecosystems (Barica J. and Mur L.R., eds.), Junk Publ., Den Haag, pp. 79-82.
2. Roos P.J., **Post A.F.** and J.M. Revier (1981). Dynamics and architecture of reed periphyton. Verh. Internat. Verein. Limnol. 21, 948-953.
3. Zevenboom W., **Post A.F.**, Van Hes U.M. and L.R. Mur (1983). A new incubator for measuring photosynthetic activity of phototrophic organisms using the amperometric oxygen technique. Limnol. Oceanogr. 28, 787-791.
4. Zevenboom W. and **A.F. Post** (1983). Effects of growth conditions on photosynthesis. in: The measurement of primary production: problems and recommendations (Colijn F., Gieskes W.W.C. and Zevenboom W., eds.). Hydrobiol. Bull. 17, 29-51.
5. **Post A.F.**, Dubinsky Z., Wyman K. and P.G. Falkowski (1984). Kinetics of light intensity adaptation in a marine planktonic diatom. Mar. Biol. 83, 231-238.
6. **Post A.F.**, Dubinsky Z., Wyman K. and P.G. Falkowski (1985). Physiological responses of a marine planktonic diatom to transitions in growth irradiance. Mar. Ecol. Prog. Series 25, 141-149.
7. **Post A.F.**, De Wit R. and L.R. Mur (1985). Interactions between temperature and light intensity on the growth and photosynthesis of *Oscillatoria agardhii*. J. Plankton Res. 7, 487-495.
8. **Post A.F.**, Loogman J.G. and L.R. Mur (1985). Regulation of growth and photosynthesis by *Oscillatoria agardhii* grown with a light/dark cycle. FEMS Microbiol. Ecol. 31, 97-102.
9. **Post A.F.**, Eygenraam F. and Mur L.R. (1985). Influence of light period length on photosynthesis and synchronous growth of *Scenedesmus protuberans*. British Phycol. J. 20, 391-397.
10. **Post A.F.**, Loogman J.G. and L.R. Mur (1986). Photosynthesis, carbon flows and growth of *Oscillatoria agardhii* in environments with a periodic supply of light energy. J. Gen. Microbiol. 132, 2129-2136.
11. **Post A.F.**, Veen A. and L.R. Mur (1986). Regulation of cyanobacterial photosynthesis determined from variable fluorescence yields of photosystem II. FEMS Microbiol. Lett. 35, 129-135.
12. **Post A.F.** (1986). Transient state characteristics of adaptation to changes in light conditions for the cyanobacterium *Oscillatoria agardhii*. I. Pigmentation and photosynthesis. Arch. Microbiol. 145, 353-357.
13. **Post A.F.** (1986). Transient state characteristics of adaptation to changes in light conditions for the cyanobacterium *Oscillatoria agardhii*. II. Dynamics in cellular contents and growth rates. Arch. Microbiol. 149, 19-23.
14. Dubinsky Z., Falkowski P.G., **Post A.F.** and U.M. Van Hes (1987). A system for measuring phytoplankton photosynthesis in a defined light field with an oxygen electrode. J. Plankton Res. 9, 607-612.
15. **Post A.F.** (1987). The nature of complementary chromatic adaptation in cyanobacteria: Functional organization of pigments and regulation of photosynthesis in monochromatic light. PhD thesis, University of Amsterdam, 128 pp.

16. Naes H. and **A.F. Post** (1988). Transient states in geosmin, pigments, carbohydrates and proteins in continuous cultures of *Oscillatoria brevis* induced by changes in nitrogen supply. Arch. Microbiol. 150, 333-337.
17. Naes H., Utkilen H.C. and **A.F. Post** (1988). Factors influencing geosmin production by the cyanobacterium *Oscillatoria brevis*. Wat. Sci. Tech. 20, 125-131.
18. Naes H., Utkilen H.C. and **A.F. Post** (1989). Regulation of geosmin production and pigment biosynthesis in the cyanobacterium *Oscillatoria brevis*. Arch. Microbiol. 151, 407-410.
19. Burger-Wiersma T. and **A.F. Post** (1989). Functional analysis of the photosynthetic apparatus of *Prochlorothrix hollandica* (Prochlorales), a chlorophyll *b* containing prokaryote. Plant Physiol. 91, 770-774.
20. **Post A.F.**, Zwart G., Sweers J.P., Veen A., Rensman D., Van Den Heuvel A. and Mur L.R. (1989). Chromatic regulation of photosynthesis in cyanobacteria. in: Microbial Mats, Physiological Ecology of Benthic Microbial Communities. (Cohen Y. and Rosenberg E., eds.), ASM press, pp. 305-312.
21. Ish-Shalom D., **Post A.F.**, Kloppstech K. and I. Ohad (1990). Light regulation of the 22 kD heat-shock protein in *Chlamydomonas reinhardtii*. in: Current Research in Photosynthesis (Baltscheffsky M., ed.), Kluwer Acad. Publ. Vol. IV. pp. 709-712.
22. **Post A.F.**, Mimuro M. and Y. Fujita (1991). Light 2 directed changes in the effective absorption cross-section of photosystem II in *Synechocystis* 21270 are related to modified action on the donor side of the reaction center. Biochim. Biophys. Acta 1060, 67-74.
23. **Post A.F.** (1991). The contribution of the microalga *Chlorella* to wastewater treatment. Israel Environm. Bull. 14, 19-24.
24. Hershkovitz N., Oren A., **Post A.F.** and Cohen Y. (1991). Induction of water stress proteins in cyanobacteria exposed to matric water stress. FEMS Microbiol. Lett. 83, 169-172.
25. **Post A.F.**, Gal A., Ohad I., Milbauer K.M. and Bullerjahn G.S. (1992). Characterization of light activated reversible phosphorylation of a chlorophyll *a/b* antenna apoprotein in the photosynthetic prokaryote *Prochlorothrix hollandica*. Biochim. Biophys. Acta 1100, 75-82.
26. Bullerjahn G.S. and **A.F. Post** (1993). Prochlorophytes, are they more than just chlorophyll *a/b* containing cyanobacteria? CRC Critical Reviews in Microbiology, 19(1), 43-59.
27. Mor T.S., **Post A.F.** and I. Ohad (1993). The manganese stabilising protein (MSP) of *Prochlorothrix hollandica* is a hydrophobic membrane-bound protein. Biochim. Biophys. Acta, 1141, 206-212.
28. Fruend C., Romem E. and **A.F. Post** (1993). Ecological physiology of an assembly of photosynthetic microalgae in wastewater oxidation ponds. Water Sci. Technol. 27(7/8), 143-149.
29. Cohen I. and **A.F. Post** (1993). The heterotrophic connection in a photoautotrophic *Chlorella vulgaris* dominant in wastewater oxidation ponds. Water Sci. Technol. 27(7/8), 151-155.
30. **Post A.F.**, Ohad I., Warner K.M. and G.S. Bullerjahn (1993). Energy distribution between photosystems I and II in the photosynthetic prokaryote *Prochlorothrix hollandica* involves a chlorophyll *a/b* antenna which associates with Photosystem I. Biochim. Biophys. Acta. 1144, 374-384.
31. **Post A.F.** (1993). Ammonia enhanced dark respiration in *Chlorella vulgaris* is related to the collapse of a transmembrane pH gradient. FEMS Microbiol. Lett. 113, 9-14.

32. **Post A.F.** and G.S. Bullerjahn (1994). The photosynthetic machinery of Prochlorophytes: structural properties and ecological significance. *FEMS Microbiol. Reviews* 13, 393-414.
33. **Post A.F.**, Cohen I. and E. Romem (1994). Characterization of two *Chlorella vulgaris* (Chlorophyceae) strains isolated from wastewater oxidation ponds. *J. Phycol.* 30, 950-954.
34. Lindell D. and **A.F. Post** (1995). Ultraphytoplankton succession is triggered by deep winter mixing in the Gulf of Aqaba (Eilat). *Limnol. Oceanogr.* 40(6), 1130-1141.
35. Dwivedi K., **Post A.F.** and G.S. Bullerjahn (1996). Cloning and functional analysis of the *pmmA* gene encoding phosphomannomutase from the photosynthetic prokaryote *Prochlorothrix hollandica*. *Biochim. Biophys. Acta* 1290, 210-214.
36. **Post A.F.** and B. Arieli (1997). Photosynthesis of *Prochlorothrix hollandica* under sulfide-rich anoxic conditions. *Appl. Environm. Microbiol.* 63(9), 3507-3511.
37. Lindell D., Padan E. and **A.F. Post** (1998). Regulation of *ntcA* expression and nitrite uptake in the marine *Synechococcus* sp. strain WH7803. *J. Bacteriol.* 180(7), 1878-1886.
38. Yahel G., **Post A.F.**, Fabricius K., Marie D., Vaultot D. and A. Genin (1998). Phytoplankton distribution and grazing near coral reefs. *Limnol. Oceanogr.*, 43(4), 551-563.
39. Li H. and **A.F. Post** (1998). Alkaline phosphatase activities among planktonic communities in the northern Red Sea. *Mar. Ecol. Prog. Series* 173, 107-115.
40. Lindell D., Padan, E. and **A.F. Post** (1999). The effect of ammonium on *ntcA* expression, nitrate and nitrite uptake in marine *Synechococcus* sp. strain WH 7803. In: *Marine Cyanoobacteria* (L. Charpy and A.W. Larkum, eds.), Bulletin de l'Institut Océanographique, Monaco, special issue N° 19, pp. 273-278.
41. Wang Q., Li H. and **A.F. Post** (2000). The nitrate assimilation genes of the marine diazotrophic, filamentous cyanobacterium *Trichodesmium* sp. strain WH9601. *J. Bacteriol.* 182 (6): 1764-1767.
42. Schreiter P., Gillor O., **Post A.F.**, Belkin S., Schmid R.D. and T.T. Bachmann (2000). Monitoring of phosphorus availability in water by an immobilized luminescent cyanobacterial reporter strain. *Biosens. Bioelectron.* 16, 811-818.
43. Stihl A., Sommer U. and **A.F. Post** (2001). Alkaline phosphatase activities among populations of the colony-forming, diazotrophic cyanobacterium *Trichodesmium* spp. in the Red Sea. *J. Phycol.* 62, 310-317.
44. West N.J., Schoenhuber, W.A., Fuller N.J., Amann R.I., Rippka R., **Post A.F.** and D.J. Scanlan (2001). Closely related genotypes of *Prochlorococcus* show remarkably different depth distributions in two oceanic regions as revealed by in situ hybridisation using 16S rRNA-targeted oligonucleotides. *Microbiol.* 147, 1731-1744.
45. Lindell D. and **A.F. Post** (2001). Expression of the nitrogen regulatory gene *ntcA* as an indicator of ammonium acquisition by marine unicellular cyanobacteria. *Appl. Environ. Microbiol.*, 67, 3340-3349.
46. Lindell D., Erdner D., Marie D., Claustre H., Prasil O., Le Gall F., Rippka R., Partensky F., Scanlan D.J. and **A.F. Post** (2002). Contrasting expression of *ntcA* and *amt* in *Prochlorococcus* sp. strain PCC 9511. , *J. Phycol.* 38(6), 1113-1124.
47. Boelen P., **Post A.F.**, Veldhuis M.J.W. and A.G.J. Buma (2002). Diel patterns of UVBR induced DNA damage in plankton size fractions from the Gulf of Aqaba, Red Sea. *Microbial Ecol.* 44(2), 164-174.
48. Gillor O., Hadas O., **Post A.F.** and S. Belkin (2002). Phosphorus bioavailability monitoring in a bioluminescent cyanobacterial sensor strain. *J. Phycol.* 38(1), 107-115.

49. Moore L., Rocap G., **Post A.F.** and S.W. Chisholm (2002). Differential nitrogen utilization of the marine cyanobacteria, *Prochlorococcus* and *Synechococcus*. *Limnol. Oceanogr.* 47(4), 989-996.
50. **Post A.F.**, Dedej. Z., Gottlieb R., Thomas D., El-Absawi M., El-Naggar A., Gharabawi M., U. Sommer (2002). Spatial and temporal distribution of *Trichodesmium* spp. in the stratified Gulf of Aqaba (northern Red Sea). *Mar. Ecol. Prog. Ser.* 239, 241-250.
51. Sommer U., Berninger U.-G., Böttger-Schnack R., Cornils A., Hagen W., Hansen T., Al-Najjar T., **Post A.F.**, Schnack-Schiel S.B., Stibor H., Stuebing D. and S. Wickham (2002). Grazing during early spring in the Gulf of Aqaba and the Northern Red Sea. *Mar. Ecol. Prog. Ser.* 239, 251-261.
52. Holtzendorff J., Marie D., Partensky F., **Post A.F.** and W.R. Hess (2002). Expression of *ftsZ* in natural *Prochlorococcus* populations of the Red Sea, analyzed by real-time PCR. *Environ. Microbiol.* 4(11), 644-653.
53. Zeidner G., Preston C.M., Delong E.F., Massana R, **Post A.F.** and O. Beja (2003). Extensive diversity among marine phytoplankton. *Environ. Microbiol.* 5 (3), 212-216.
54. Fuller N.J., Marie D., Partensky F., Vaultot D., **Post A.F.** and D.J. Scanlan (2003). Clade-specific 16S rDNA oligonucleotides reveal the dominance of a single marine *Synechococcus* clade throughout a stratified water column in the Red Sea. *Appl. Environ. Microbiol.*, 69 (5), 2430-2443.
55. Gillor O., Harush A., Hadas O., **Post A.F.** and S. Belkin (2003). Assessment of nitrogen bioavailability in a freshwater lake. *Appl. Environ. Microbiol.* 69 (3), 1465-1474.
56. Man D., Wang W., Sabihi G., Aravind L., **Post A. F.**, Massana R., Spudich E. N. , Spudich J. L. and O. Béjà (2003). Diversification and a single-residue spectral tuning switch mechanism in marine proteorhodopsins. *EMBO J.* 22(8), 1725-1731.
57. Steglich C., Marie D., **Post A.F.** and W.R. Hess (2003). Analysis of natural populations of *Prochlorococcus* in the northern Red Sea using phycoerythrin gene sequences. *Environ. Microbiol.* 5(8), 681-690.
58. Rocap G., Larimer F.W., Lamerdin J., Malfatti S., Chain P., Ahlgren N.A., Arellano A., Coleman M., Hauser L., Hess W.R, Johnson Z.I., Land M., Lindell D., **Post A.F.**, Regala W., Shah M., Shaw S.L., Steglich C., Sullivan M.B., Ting C.S., Tolonen A., Webb E.A., Zinser E. and S.W. Chisholm (2003) Niche differentiation viewed from whole genome comparison of two ecotypes of the marine cyanobacterium *Prochlorococcus*. *Nature* 424, 1042-1047.
59. Mühlhling M., Fuller N. J., Millard A, Scanlan D. J., **Post A. F.**, Wilson W. H. and N.H. Mann (2005). Genetic diversity of marine picoplankton (*Synechococcus*) blooms and covariance of the associated viroplankton population. *Environmental Microbiology* 7(4), 499-508.
60. Fuller N. J., Marie D., Yallop M., Rivlin T., West N. J., **Post A. F.** and D. J. Scanlan (2005). Dynamics of community structure and P status of picocyanobacterial populations in the Gulf of Aqaba, Red Sea during 1999-2000. *Limnol. Oceanogr.* 50(1), 363-375.
61. Lindell D., Penno S., Al Qutob M., David E., Korpál T., Lazar B. and **A.F. Post** (2005). Expression of the N-stress response gene *ntcA* reveals N-sufficient *Synechococcus* populations in the oligotrophic northern Red Sea. *Limnol. Oceanogr.* 50, 1932-1944.

62. Penno, S., Lindell D. and **A.F. Post** (2006). Diversity of *Synechococcus* and *Prochlorococcus* populations determined from DNA sequences of the N-regulatory gene *ntcA*. *Environ. Microbiol.*, 8(7), 1200-1211.
63. Mühling M., Fuller N.J., Somerfield P.J., **Post A.F.**, Wilson W.H., Scanlan D.J., Joint I. and N.H. Mann (2006) High resolution genetic diversity studies of marine *Synechococcus* using *rpoC1*-based RFLP. *Aquat. Microb. Ecol.* 45, 263-275.
64. Mackey K.R.M., Calhoun M., Labiosa R.G., Street J.H., **Post A.F.**, and A. Paytan (2007). Phosphorus availability controls phytoplankton community dynamics and taxon specific nutrient status in the Gulf of Aqaba, Red Sea. *Limnol. Oceanogr.* 52 (2), 873-885.
65. Chen Y., Street J., Golan, D., **Post A.F.** and A. Paytan (2007). Estimate of atmospheric dry deposition fluxes and associate input of nutrients in the Gulf of Aqaba. *J. Geophys. Res.* 112, D04309.
66. Garczarek L., Dufresne A., Rousvoall S., West N., Mazard S., Marie D., Claustre H., Raimbault P., **Post A.F.**, Scanlan D., and F. Partensky (2007). High vertical and low horizontal microdiversity of *Prochlorococcus* genotypes in the Mediterranean Sea in summer. *FEMS Microbiol. Ecol.* 60, 189-206.
67. Dufresne A., Ostrowski M., Scanlan D.J., Garczarek L., Mazard S., Palenik B., Paulsen I., Tandeau de Marsac N., Wincker P., Dossat C., Ferriera S., Johnson J., **Post A.F.**, Hess W.R. and F. Partensky (2008). Unraveling the genomic mosaic of a ubiquitous genus of marine cyanobacteria. *Genome Biol.* 9 (5):R90.
68. Kamennaya N.A., Chernichovsky M. and **A.F. Post** (2008). The cyanate utilization capacity of marine unicellular cyanobacteria. *Limnol. Oceanogr.*, 53, 2485-2494.
69. Claessens M., Wickham S.A., **Post A.F.** and Reuter M. (2008). Ciliate community in the oligotrophic Gulf of Aqaba. *Aquat. Microb. Ecol.* 53, 181-190.
70. Paytan A., Mackey K.R.M., Chen Y., Lima I.D., Doney S.C. and **A.F. Post** (2009). Toxicity of atmospheric aerosols on marine phytoplankton. *Proc. Natl. Acad. Sci.*, 106 (12), 4601-4605. www.pnas.org/cgi/doi/10.1073/pnas.0811486106
71. Scanlan D.J., Ostrowski M., Mazard S., Dufresne A., Garczarek L., Hess W. R., **Post A.F.**, Hagemann M., Paulsen I., and F. Partensky (2009). Ecological genomics of marine picocyanobacteria. *Microbiol. Mol. Biol. Rev.* 73 (2), 249-299.
72. K.R.M. Mackey, A. Paytan, T. Rivlin, and **A.F. Post** (2009). Phytoplankton responses to natural and simulated transitions in nutrient and light regimes in the oligotrophic Red Sea. *Mar. Biol.* 156, 1531-1546.
73. D. Ionescu, S. Penno, L. Hazanov, M. Chernihovsky, B. Rihtman, **A.F. Post** and A. Oren (2009). Distribution of Archaea among the prokaryoplankton in the Gulf of Aqaba. *FEMS Microbiol. Ecol.* 69, 425-438.
74. Gillor O., Hadas O., **Post A.F.** and S. Belkin (2010). Phosphorus and nitrogen in a monomictic fresh water lake: a new insight into nutrient bioavailability. *Freshwater Biol.* 55, 1182-1190. [doi:10.1111/j.1365-2427.2009.02342.x](https://doi.org/10.1111/j.1365-2427.2009.02342.x)
75. Aberle N., Hansen T., Böttger-Schnack R., Holzman R., **Post A.F.** and U. Sommer (2010). Differential routing of “new” nitrogen toward higher trophic levels within the marine food web of the Gulf of Aqaba, Northern Red Sea. *Mar. Biol.* 157, 157-169. [doi 10.1007/s00227-009-1306-y](https://doi.org/10.1007/s00227-009-1306-y)

76. Claessens M., Wickham S.A., **Post A.F.** and M. Reuter (2010). A paradox of the ciliates? High ciliate diversity in a resource-poor environment. *Mar. Biol.* 157, 483-494. [doi:10.1007/s00227-009-1334-7](https://doi.org/10.1007/s00227-009-1334-7)
77. Wankel S.D., Chen Y., Kendall C., **Post A.F.** and A. Paytan (2010). Sources of aerosol nitrate to the Gulf of Aqaba: evidence from $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of nitrate and trace metal chemistry. *Marine Chem.* 120 (1-4), 90-99. [doi:10.1016/j.marchem.2009.01.013](https://doi.org/10.1016/j.marchem.2009.01.013).
78. Kamennaya N.A. and **A.F. Post** (2011). Characterization of cyanate metabolism in marine *Synechococcus* and *Prochlorococcus* spp. *Appl. Environ. Microbiol.*, 77 (1), 291-301.
79. **Post A.F.**, Penno S., Zandbank K., Paytan A., Huse S. and D. Mark Welch (2011). Long term seasonal dynamics of *Synechococcus* population structure in the Gulf of Aqaba, Northern Red Sea. *Frontiers in Aquat. Microbiol.* 2, 1-11. [doi: 10.3389/fmicb.2011.00131](https://doi.org/10.3389/fmicb.2011.00131).
80. Mackey K.R.M., Bristow L., Parks D.R., Altabet M.A., **Post A.F.**, and A. Paytan (2011). Nitrite maxima in oligotrophic waters – the impact of light and substrate availability. *Prog. Oceanogr.* 91, 545-560, doi: <http://dx.doi.org/10.1016/j.pocean.2011.09.001>.
81. Finkel O.M., Burch A.Y., Lindow S.E., **Post A.F.** and S. Belkin (2011). Geographical location determines the population structure in phyllosphere microbial communities of a salt-excreting desert tree. *Appl. Environ. Microbiol.*, 77 (21), 7647-7655.
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83. **Post A.F.**, Rihtman B. and Q. Wang (2012). Decoupling of ammonium regulation and *ntcA* transcription in the diazotrophic marine cyanobacterium *Trichodesmium* sp. *ISME J.* 6, 629-637. [doi:10.1038/ismej.2011.121](https://doi.org/10.1038/ismej.2011.121)
84. Sukenik A., Kaplan-Levy R.N., Mark Welch J. and **A.F. Post** (2012). Dramatic multiplication of the genome and the ribosomes in akinetes are an essential attribute of the survival strategy in *Aphanizomenon ovalisporum*. *ISME J.* 6, 670-679. [doi:10.1038/ismej.2011.128](https://doi.org/10.1038/ismej.2011.128)
85. Meeder, E., Mackey, K.R.M., Paytan A., Shaked Y., Iluz D., Stambler N., Rivlin T., **Post A.F.** and B.Lazar (2012). Nitrite dynamics in the open ocean – a lesson from the Northern Red Sea. *Mar. Ecol. Prog. Ser.* 453, 11-26. [doi: 10.3354/meps09525](https://doi.org/10.3354/meps09525).
86. Finkel O.M., Burch A.Y., Elad T., Huse S.M., Lindow S.E., **Post A.F.** and S.Belkin (2012). Distance-Decay relationships partially determine diversity patterns of phyllosphere bacteria on Tamarisk trees across the Sonoran Desert. *Environ. Microbiol.* 78(17), 6187-6193. [doi: 10.1128/AEM.00888-12](https://doi.org/10.1128/AEM.00888-12).
87. Mackey K.R.M., Roberts K., Lomas M.W., Saito M.A., **Post A.F.** and A.Paytan (2012). Enhanced solubility and ecological impact of atmospheric phosphorus deposition upon extended seawater exposure. *Environ. Sci Technol.*, 46 (19), 10438-10446. [doi: 10.1021/es3007996](https://doi.org/10.1021/es3007996).
88. Yager P.L., Sherrell R.M., Stammerjohn S.E., Alderkamp A.-C., Schofield O., Abrahamsen E.P., Arrigo K.R., Bertilsson S., Garay D.L., Guerrero R., Lowry K.E., Moksnes P.-O., Ndungu K., **Post A.F.**, Randall-Goodwin E., Riemann L., Severmann S., Thatje S., van Dijken G.L., and S. Wilson. (2012). ASPIRE: The Amundsen Sea Polynya International Research Expedition. *Oceanography* 25(3):40–53, doi.org/10.5670/oceanog.2012.73

89. Kamennaya, N. and **A.F. Post** (2013). Distribution and expression of the cyanate acquisition potential among cyanobacterial populations in oligotrophic marine waters. *Limnol. Oceanogr.* 58(6):1959-1971. [doi/10.4319/lo.2013.58.6.1959](https://doi.org/10.4319/lo.2013.58.6.1959).
90. Shilova I.N., Robidart J.C., Tripp H.J., Turk-Kubo K., Wawrik B., **Post A.F.**, Thompson A.W., Ward B., Hollibaugh J.T., Millard A., Ostrowski M., Scanlan D., Paerl R.W., Stuart R. and J.P. Zehr (2014). A microarray for assessing transcription from pelagic marine microbial taxa. *ISME J.* 8(7):1476-1491. [doi: 10.1038/ismej.2014.1](https://doi.org/10.1038/ismej.2014.1).
91. Huo Y.-Y., Li Z.-Y., You H., Wang C.-S., **Post A.F.**, Oren A. and X.-W. Xu (2014). *Oceanicola antarcticus* sp. nov. and *Oceanicola flagellatus* sp. nov., moderately halophilic bacteria isolated from seawater. *Int. J. Syst. Evol. Microbiol.* 64(9):2975-2979.
92. Saito M.A., McIlvin M.R., Moran D.M, Goepfert T.J., DiTullio G.R., **Post A.F.** and C.H. Lamborg (2014). Multiple nutrient stresses at intersecting Pacific Ocean biomes detected by protein biomarkers. *Science* 345:1173-1176.
93. Wickham S.A., Claessens M. and **A.F. Post** (2014). Grazing and nutrient control of the pelagic microbial food web in the Gulf of Aqaba: seasonal experiments. *J. Plankton Res.*, [doi: 10.1093/plankt/fbu103](https://doi.org/10.1093/plankt/fbu103)
94. Delmont T., Hammar K.M., Ducklow H., Yager P. and **A.F. Post** (2014). *Phaeocystis antarctica* blooms shape bacterial community structures in the Amundsen Sea polynya. *Frontiers in Systems Microbiology* 5 (646): 1-13. [doi: 10.3389/fmicb.2014.00646](https://doi.org/10.3389/fmicb.2014.00646)
95. Larsen P.E., Scott N., Field D., **Post A.F.**, Knight R., Hamada, Y. and J.A. Gilbert (2014). Satellite remote sensing data predicts marine microbial community structure and metabolite turnover. *ISME J.*, 9(1), 166-179. [doi:10.1038/ismej.2014.107](https://doi.org/10.1038/ismej.2014.107).
96. Mackey K.R.M., Chien C.-T., **Post A.F.**, Saito M.A. and A. Paytan (2015). Rapid and gradual modes of aerosol trace metal dissolution in seawater. *Frontiers of Microbiological Chemistry* 5 (794): 1-11. [doi: 10.3389/fmicb.2014.00794](https://doi.org/10.3389/fmicb.2014.00794)
97. Ducklow H., Erickson M., Lee S., Lowry K., **Post A.F.**, Sherrell R., Stammerjohn S.E., Wilson S.E. and P.L. Yager (2015). Particle flux over the continental shelf in the Amundsen Sea Polynya and Western Antarctic Peninsula. *Elementa*, 3:46, 1-20. [doi: 10.12952/journal.elementa.000046](https://doi.org/10.12952/journal.elementa.000046)
98. Huo Y.-Y., Cheng H., **Post A.F.**, Wang C.-S., Jiang X.-W., Pan J., Wu M. and X.-W. Xu (2015). Ecological functions of uncultured microorganisms in the cobalt-rich ferromanganese crust of a seamount in the Central Pacific are elucidated by fosmid sequencing. *Acta Oceanologica Sinica* 34 (4), 92-113. [doi: 10.1007/s13131-015-0650-7](https://doi.org/10.1007/s13131-015-0650-7)
99. Hunter-Cevera K.R., **Post A.F.** and H.M. Sosik (2015). Diversity of *Synechococcus* at the Martha's Vineyard Coastal Observatory: Insights from culture isolations, clone libraries and flow cytometry. *Microbial Ecol.*, [doi 10.1007/s00248-015-0644-1](https://doi.org/10.1007/s00248-015-0644-1).
100. Bertrand E.M., McCrow J.P., Zheng H., Moustafa A., McQuaid J., Delmont T.O., **Post A.F.**, Sipler R., Spackeen J., Xu K., Bronk D., Hutchins D.A. and A.E. Allen (2015). Phytoplankton-bacterial interactions mediate micronutrient colimitation in the Southern Ocean. *Proc. Natl. Acad. Sci.* 112 (32), 9938-9943. [doi/10.1073/pnas.1501615112](https://doi.org/10.1073/pnas.1501615112)
101. Saito M.A., Dorsk A., **Post A.F.**, McIlvin M., Rappe M. and D. Moran (2015). Needles in the deep blue sea: subspecies specificity in targeted protein biomarker analyses with the vast oceanic microbial metaproteome. *Proteomics*, 00, 1-11. [doi 10.1002/pmic.201400630](https://doi.org/10.1002/pmic.201400630).

102. Mackey K.R.M., **Post A.F.**, McIlvin M.R. and M.A. Saito (2015). Divergent responses of coastal and oceanic *Synechococcus* to iron limitation. Proc. Natl. Acad. Sci., [doi/10.1073/pnas.1509448112](https://doi.org/10.1073/pnas.1509448112).
103. Delmont T.O., Eren A.M., Vineis, J.H and **A.F. Post** (2015). Genome reconstructions indicate the partitioning of ecological functions inside a phytoplankton bloom in the Amundsen Sea, Antarctica. *Frontiers in Aquatic Microbiol.* 6-1090, 1-17. [doi/10.3389/fmicb.2015.01090](https://doi.org/10.3389/fmicb.2015.01090)
104. Mukherjee M., Ray A., **Post A.F.**, McKay R.M and G.S. Bullerjahn (2015) Identification, enumeration and diversity of nitrifying Archaea and Bacteria in trophic end members of the Laurentian Great Lakes. *Great Lakes Res.* 4C, 1-11. <http://dx.doi.org/10.1016/j.jglr.2015.11.007>
105. Williams C.M., Dupont A., **Post A.F.**, Riemann L., Dinasquet J. and P.L. Yager (2016). Pelagic microbial heterotrophy in response to a highly productive bloom of *Phaeocystis antarctica* in the Amundsen Sea Polynya, Antarctica. *Elementa* 1:000102, [doi: 10.12952/journal.elementa.000102](https://doi.org/10.12952/journal.elementa.000102).
106. Chandler J.W., Lin Y., Gainer P.J., **Post A.F.**, Johnson Z.I., and E.R. Zinser (2016). Coexistence of the dominant ecotypes of *Prochlorococcus* within the open ocean's surface mixed layer is persistent and varies as a function of temperature. *Environ. Microbiol. Rep.*, 8 (2), 272-284. [doi/10.1111/1758-2229.12378](https://doi.org/10.1111/1758-2229.12378).
107. Finkel O., Delmont T.O., **Post A.F.** and S. Belkin (2016). Metagenomic signatures of bacterial adaptation to life on the surface of a salt-excreting desert tree. *Appl. Environ. Microbiol.* 82(9), 2854-2861. [doi:10.1128/AEM.00483-16](https://doi.org/10.1128/AEM.00483-16).
108. Yager P.L., Sherrell R.M., Stammerjohn S.E., Ducklow H.W., Schofield O.M.E., Ingall E.D., Wilson S.E., Lowry K.E., Williams C.M., Riemann L., Bertilsson S., Nielsen T.G., Alderkamp A.-C., Dinasquet J., Kjellerup S., Logares R., Melara A.J., Mu L., Newstead R.G., **Post A.F.**, Richert I., Swalethorp R. and G. van Dijken (in revision). A carbon budget for the Amundsen Sea Polynya, Antarctica; estimating net community production and export in a highly productive polar ecosystem. *Elementa* 4:000140. [doi: 10.12952/journal.elementa.000140](https://doi.org/10.12952/journal.elementa.000140).
109. Mackey K.R.M., **Post, A.F.**, McIlvin M.R. and M.A. Saito (submitted). Physiological and proteomic characterization of light adaptations in marine *Synechococcus*. *ISME J.*
110. Kamennaya N.A., Schwarz A., Fertig T., Dery E., Wickham S., Hammar K.M., Mark Welch D. and **A.F. Post** (in revision). Members of an ancient *Prochlorococcus* clade in the Antarctic Circumpolar Current. *Proc Natl. Acad Sci.*
111. **Post A.F.**, Delmont T.O., Banning E., McKay R.M. and G.S. Bullerjahn (in prep.). Microbial community structures of oligotrophic Lake Superior (Laurentian Great Lakes) during summer stratification. *Appl. Environ. Microbiol.*
112. Delmont T.O., Alderkamp A.-C., Jenkins B., Eren M.A., McCrow J., Bertrand E., Filliger L., Allen A.A., Arrigo K.R. and **A.F. Post** (in prep.). Co-occurring phytoplankton species in the Ross Sea, Antarctica, have different acclimation responses to changing light and iron levels.

Publications in books:

113. Mor T.S., **Post A.F.** and Ohad I. (1992). Characterization of the oxygen evolving complex of *Prochlorothrix hollandica*. in: *Regulation of Chloroplast Biosynthesis* (Agyroudi-Akoyunoglou J.A., ed.), Plenum Press, NY, pp. 427-432.

114. Mor T.S., **Post A.F.** and Ohad I. (1992). *Prochlorothrix hollandica* is more sensitive to photoinhibition than *Chlamydomonas reinhardtii*. in: Regulation of Chloroplast Biogenesis (Agyroudi-Akoyunoglou J.A., ed.), Plenum Press, NY, pp. 433-437.
115. Fruend C., Romem E. and **Post A.F.** (1992). Ecological physiology of an assembly of photosynthetic microalgae in wastewater oxidation ponds. in: Series of Environmental Quality and Ecosystem Stability (Adin A., Gasith A., Fattal B. and Kanarek A.,eds.), volume V-A, pp 77-83.
116. Cohen I. and **Post A.F.** (1992). The heterotrophic connection in a photoautotrophic *Chlorella vulgaris* dominant in wastewater oxidation ponds. in: Series of Environmental Quality and Ecosystem Stability (Adin A., Gasith A., Fattal B. and Kanarek A.,eds.), volume V-A, pp. 39-43.
117. **Post A.F.** (1999). The Prochlorophytes - An Algal Enigma. Biology of chlorophyll *a/b* containing photosynthetic prokaryotes. In: Enigmatic microorganisms and life in extreme environments (Seckbach J. ed.), Kluwer Academic Publishers, pp. 115-125.
118. **Post A.F.** (2005). Nutrient Limitation of Marine Cyanobacteria: Molecular Ecology of Nitrogen Limitation in an Oligotrophic Sea. In: Harmful Cyanobacteria (Huisman, J, Matthijs H.C.P and Visser P.M., eds.). Springer Publishers, Dordrecht, The Netherlands, pp. 87-107.
119. **Post A.F.** (2005). The genus *Prochlorococcus*. In: The Prokaryotes (Dvorkin M., Falkow S., Rosenberg E., Schleifer K.H. and E. Stackebrandt, eds.), Springer Verlag New York, Inc., electronic and printed edition (invited chapter).
120. Scanlan D.F. and **Post A.F.** (2008). Aspects of marine cyanobacterial N-physiology and connection to the N-cycle. In: Nitrogen in the Marine Environment (Capone D.G, Bronk D.A., Mulholland M.R., and Carpenter E.J., eds.). Elsevier B.V., pp. 1073-1096.
121. **Post A.F.**, Golan D., Zandbank K. and S. Penno (2008). Phytoplankton communities of the Gulf of Aqaba, Northern Red Sea. In: A Pocket-Sized Ocean, the Gulf of Aqaba (Eilat), Environment and Biodiversity, (F.D. Por, ed.). Magna Press, Jerusalem, pp. 119-134.

Citations: <http://scholar.google.com/citations?user=f4eLuf8AAAAJ>

Research grant support

1988-1991	Dutch Royal Academy of Arts and Sciences, <i>Photosynthetic antennae of chlorophyll a/b containing cyanobacteria</i>	\$ 150,000
1989-1992	USA-Israel Binational Science Foundation (BSF) <i>Photosynthetic antennae of chlorophyll a/b containing cyanobacteria</i>	\$ 108,000
1989-1993	Mekoroth Water Company Ltd., Israel <i>Microbial ecology of wastewater oxidation ponds</i>	\$ 260,000
1991	Hebrew University, Valazzi-Pikovsky stipend <i>Microbial ecology of wastewater oxidation ponds</i>	\$ 15,600
1994-1997	Ministry of Research and Technology (BMFT), Germany <i>Molecular ecology of cyanobacterial populations in the Red Sea</i>	€ 120,000
1994	Hebrew University, Jerusalem <i>Molecular ecology of cyanobacterial populations in the Red Sea</i>	\$ 24,000
1994-1996	Hebrew University, Jerusalem <i>Anthropogenic effects on phytoplankton nutrient budgets in the Red Sea</i>	\$ 40,000
1995-1998	US-Israel Binational Science Foundation (BSF) <i>Visualization of Trichodesmium blooms by 3-D tomography.</i>	\$ 126,000
1996-1999	Ministry of Research and Education (BMBF), Germany <i>Red Sea Program, molecular approach to N-stress studies in phytoplankton.</i>	€ 77,000
1997-2000	AQUASENSE, European Community <i>Development of bioluminescent bioreporters in unicellular cyanobacteria.</i>	€138,500
1998-2001	PROMOLEC, European Community <i>Molecular genetics of the marine cyanobacterium Prochlorococcus.</i>	€180,000
1998-2001	Israel Science Foundation (ISF) <i>Phosphate stress studies of phytoplankton in the northern Red Sea.</i>	\$ 176,000
2000-2003	US-Israel Binational Science Foundation (BSF) <i>Nitrite-nitrate utilization among Prochlorococcus populations.</i>	\$ 194,705
2002-2005	MARGENES, European Community <i>Genome studies of the cyanobacteria Prochlorococcus and Synechococcus.</i>	€ 230,000
2002	Hebrew University, Enrico Berman Fund <i>Light harvesting and nutrient stress among marine phytoplankton</i>	\$ 18,300
2003	Hebrew University, Ring Foundation <i>Urea utilization by phytoplankton in the northern Red Sea</i>	\$ 30,000
2004-2007	Germany-Israel Foundation (GIF) <i>Phytoplankton mortality and nutrient cycling in the northern Red Sea.</i>	€ 221,545
2005-2008	Woods Hole MBL (Gruss-Lipper Fellowship) <i>Environmental genomics of marine cyanobacteria.</i>	\$ 146,500
2005-2008	Israel Science Foundation (ISF) <i>Genotypic diversity and genomics of marine cyanobacteria</i>	\$ 249,000
2006-2008	Israel-Niedersachsen Foundation <i>Environmental genomics of marine cyanobacteria.</i>	€ 76,550
2006-2009	NATO Science for Peace Projects <i>Monitoring of aerosol dust pollution over the Gulf of Aqaba.</i>	\$ 45,700
2007-2008	International Census of Marine Microorganisms (ICOMM) <i>Diversity of microbial communities in the northern Red Sea.</i>	\$ 35,000

2008-2013	MBL in-house grant <i>Genomic analyses of nutrient stress in marine phytoplankton</i>	\$ 1,002,750
2009	Center of Ocean and Human Health at WHOI-MBL-MIT <i>Shewanella populations in coastal waters, a pilot project.</i>	\$ 19,997
2011-2015	US-Israel Binational Science Foundation #2010262 <i>Spatial biodiversity of the phyllosphere microbial populations of Tamarix.</i>	\$ 94,000
2012-2013	NSF Chemical Oceanography #155566 <i>“Collaborative Research: Cyanate Availability and Utilization by Marine Microbial Assemblages”</i> Co-I: Margaret Mulholland, Old Dominion University.	\$153,147
2012-2015	NSF Antarctic Science #1142095 <i>“Collaborative Research: Adaptive Responses of Phaeocystis populations in Antarctic Waters”</i> Co-I: Kevin Arrigo, Stanford University.	\$540,033
2013-2016	US-Israel BARD #IS-4556-12 <i>“Removal of off flavor compounds, geosmin and 2-methylisoborneol, from recirculating aquaculture systems”</i> Co-I: Van Rijn, Hebrew University.	\$149,452
2015	Rhode Island Sea Grant – project development fund <i>Synergistic effects of nutrients and ocean acidification on food web interactions in Narragansett Bay – a modeling study.</i>	\$ 6,300

Lectures and Presentations

- 1982 *Group of Aquatic Productivity (GAP) workshop*, Konstanz, Germany. **lecture.**
- 1984 *Group of Aquatic Productivity (GAP) workshop*, Haifa, Israel. **Invited lecture.**
- 1985 *Vth International Symposium on Photosynthetic Prokaryotes*, Grindelwald, Switzerland. **poster.**
- 1986 *IVth International Symposium on Microbial Ecology*, Ljubljana, Yugoslavia. **lecture.**
- 1987 *Bat-Sheva de Rothschild Symposium on Microbial Mats*, Physiological Ecology of Benthic Microbial Communities, Eilat, Israel. **Invited lecture.**
- 1988 *VIth International Symposium on Photosynthetic Prokaryotes*, Noordwijkerhout, The Netherlands. **Invited lecture.**
- 1991 *VIIth International Symposium on Photosynthetic Prokaryotes*, Amherst MA, USA. **lecture + poster.**
- 1993 *Workshop on the Molecular Biology of Cyanobacteria*, Bristol, UK. **Invited lecture.**
- 1994 *International Workshop on Prochlorococcus and Synechococcus*, Roscoff, France. **Invited lecture.**
- 1994 *Optical Properties and Quantum Yield Measurements in Marine Photosynthetic Systems*, Eilat, Israel. **Invited lecture.**
- 1996 *Ocean Sciences Meeting* (American Geophysical Union/American Society of Limnology and Oceanography), San Diego CA, USA. **poster.**
- 1996 *50th Anniversary Meeting of the Phycological Society of America*, Santa Cruz CA, USA. **lecture.**
- 1997 *American Society for Limnology and Oceanography Meeting*, Santa Fe NM, USA. **lecture.**
- 1997 *IX International Symposium of Phototrophic Prokaryotes*, Vienna, Austria. **poster.**
- 1997 *Marine Cyanobacteria and related organisms*, Paris, France, **Invited lecture.**

- 1998 *American Society for Limnology and Oceanography Meeting*, San Diego CA, USA, **Invited lecture.**
- 1998 *Molecular Biology of Cyanobacteria: Exploiting the Genome*. Monterrey CA, USA, **lecture.**
- 1998 *American Phycological Society Meeting*, Flagstaff AZ, USA. **lecture.**
 Federation of Israeli Societies of Experimental Biology, Eilat, ISRAEL, **invited lecture.**
IVth European Workshop on the Molecular Biology of Cyanobacteria, Berlin, GERMANY, **lecture.**
2nd European Phycological Congress, Montecatini Terme, Italy. **Invited convenor** for symposium on “Molecular Mechanisms for Protection Against Environmental Stress”, **invited lecture.**
Ocean Sciences Meeting (American Geophysical Union/American Society of Limnology and Oceanography), San Diego CA, USA. **Chairman and lecture.**
- 2000 *2nd PROMOLEC field workshop*, Eilat, Israel. **Organizer and lecture.**
- 2001 *American Society of Limnology and Oceanography Meeting*, Albuquerque NM, USA. **4 lectures.**
Bioenergetics of Cyanobacteria symposium, Strasbourg France, **invited lecture.**
Molecular Biology of Cyanobacteria symposium, Asilomar, Monterey CA, USA, **2 lectures and 2 posters.**
- 2002 *CYANOFIX final symposium*, Tomar, Portugal, **invited poster.**
- 2003 *Harmful Cyanobacteria symposium*, University of Amsterdam, Holland, **invited lecture.**
- 2004 *International Symposium on Microbial Ecology*, Cancun, Mexico, **invited lecture.**
Mondsee Institute for Limnology, Austria, **invited seminar.**
Organismal Biology Dept., University of Salzburg, Austria, **invited seminar.**
- 2005 *Microbiology Dept., University of Goettingen*, Germany, **invited seminar.**
Plant Biology Dept. Carnegie Institution, Stanford CA, USA, **invited seminar.**
European Geophysical Union Symposium, Vienna, Austria, **invited lecture.**
Marine Genomics Symposium, Roscoff, France, **session chair, lecture.**
Marine Cyanobacteria: Evolution, Function and Genomes Symposium, Wenner-Gren Foundation, Stockholm, Sweden, **invited lecture.**
- 2006 *ISEEQS international Symposium*, Haifa, Israel, **invited lecture.**
University of Tennessee, Oak Ridge Natl Lab., Knoxville, **invited seminar.**
- 2007 *Functional Genomics of Marine Microorganisms workshop*, Berlin, **invited lecture.**
Dept. of Civil and Environmental Engineering, MIT, MA, **invited seminar.**
Dept. of Biology, Bowling Green State University, OH, **invited seminar.**
- 2008 *Marine Genomics Europe symposium*, Faro, **invited lecture.**
International Symposium of Phytoplankton Ecology and Taxonomy, Tiberias, **invited lecture.**
- 2009 - “Dynamic change in microbial community structure determined in the Gulf of Aqaba”.
ICoMM Workshop on Microbial Diversity, Woods Hole MA. **lecture.**
 - “Nitrogen stress responses in marine cyanobacteria: an analysis of adaptive strategies”.

- Biology Department, University of Southern Maine, Portland ME. **invited seminar.***
- “Nitrogen acquisition in marine cyanobacteria: from community structure to genome architecture” *Carnegie Institution of Science + Stanford University, Stanford CA. **invited seminar.***
- 2010
- *Workshop on Molecular Genetics Targets, Palo Alto CA.*
 - "N-stress responses and niche adaptation in marine cyanobacteria". *Ecosystems Center, Marine Biological Laboratory, Woods Hole MA. **invited seminar***
 - “Adaptive strategies for nitrogen assimilation by marine cyanobacteria” *Ocean Sciences Department, UCSC, Santa Cruz CA. **invited seminar.***
 - “The role of nutrients in marine microbial community structure” *Bowdoin College, Brunswick ME. **invited seminar***
 - “The ocean N-cycle from a microbial perspective: the example of the cyanobacteria” *Ecological Society of America, Pittsburgh PE. **invited lecture***
- 2011
- “Where Genotype meets Phenotype: Nitrogen Acquisition Strategies of Marine Cyanobacteria” *Division of Marine Science and Conservation, Duke University, Beaufort NC, **invited seminar***
 - “Diversity and Niche Adaptation in Marine Cyanobacteria” *Biology Dept, Woods Hole Oceanographic Institution, Woods Hole MA, **invited seminar***
 - “The Role of Nitrogen in the Productivity of Marine Cyanobacteria”, *Synthetic Genomics, La Jolla CA, **invited seminar***
 - “All Stressed Out: the molecular ecology of marine cyanobacteria”, *Gordon and Betty Moore Foundation, Palo Alto, **invited seminar***
 - “The Regulation of Nitrogen Stress Responses in Marine Cyanobacteria”, *Institute of Marine and Environmental Technology, U Maryland, **invited seminar***
- 2012
- “Microbial Community Structures in Lake Superior”, *Great Lakes Gala, University of Minnesota, **invited presentation***
 - “Nitrogen as a Driver of Diversification and Niche Adaptation in Marine Cyanobacteria”, *Dept of Biological Sciences, Southern Louisiana University, **invited lecture***
 - “Regulation of N assimilation in Marine Cyanobacteria: multiple strategies coexist in a single niche”, *Dept of Microbiology, University of Tennessee at Knoxville, **invited seminar***
 - “Nitrogen Stress Responses in Marine Cyanobacteria: different strategies and the coexistence of species”, *Dept of Ecology and Evolutionary Biology, Brown University, **invited seminar***
- 2013
- “Niche adaptation and N assimilation in Marine Cyanobacteria”, *Dept of Ocean, Earth and Atmospheric Sciences, Old Dominion University, **invited seminar***
 - “Genotype meets Phenotype: Marine Cyanobacteria: Diversification and Nitrogen Acquisition Strategies”, *SAME Symposium, Stresa, Italy, **invited presentation***
 - “The molecular ecology of phytoplankton: a tale of two extremes”, *Argonne National Laboratory, Lemont IL, **invited seminar***
 - “The molecular ecology of phytoplankton: a tale of two extremes”, *Dept of Ecology and Evolutionary Biology, Stony Brook University NY, **invited seminar***

- “A vision for the Biosciences Division”, *Argonne National Laboratory, Lemont IL*, **invited presentation**
- “The molecular ecology of phytoplankton: a tale of two extremes”, *Dept of Ecology and Evolutionary Biology, University of Chicago IL*, **invited seminar**
- 2014 - “Phytoplankton –omics: What is next”, *Dept of Ecology and Evolutionary Biology, University of Chicago IL*, **invited presentation**
- “The molecular ecology of phytoplankton: a tale of two extremes”, *Graduate School of Oceanography URI*, **invited seminar**
- “A vision for the Coastal Resources Center, a look from the outside in”, *Graduate School of Oceanography URI*, **invited presentation**
- 2015 - Microbial Communities and Phytoplankton Blooms in the Southern Ocean, *School of Marine Science and Engineering UNH*, **invited seminar**
- “The molecular ecology of phytoplankton: a tale of two extremes”, *University of Salzburg, Austria*, **invited lecture**
- “Two Tales of Genome Adaptation: The molecular ecology of phytoplankton”, *Annual Symposium of the EU project MACUMBA*, **invited lecture**
- “Making Ends Meet: The molecular ecology of phytoplankton”, *Dept of Biology, UMass Dartmouth*, **invited seminar**.
- 2016 - “A’s and T’s and G’s and Seas: The molecular ecology of marine phytoplankton”, *Harbor Branch Oceanographic Institution, FAU*, **invited seminar**.
- “Broadening your Impact: Interactive Science Communication” Session, *Ocean Carbon Biogeochemistry Workshop, WHOI Woods Hole*, **co-convener**
- “Staying Afloat: The molecular ecology of marine phytoplankton”, *Virginia Institute for Marine Science, Williamsburg VA*, **invited seminar**
- 2017 - The Challenge of Restoring Small Pelagics Fisheries in Ghana, *AAAS Annual Meeting, Boston MA*, **invited lecture**.

[Students and Postdocs](#)

Undergraduates:

Kevin Lin, MBL Woods Hole, 2005-2008.
 Reena Joubert, MBL Woods Hole, 2013-2014.
 Julia Hogan, GSO-URI, 2015.
 Sabrina Miller, GSO-URI, 2015.

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