

MICHAEL SIMMLER FOSTER

Curriculum Vitae – October 2020

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Education

1964 B.S., Physical Science, Stanford University

1965 M.A., Education, Stanford University

1972 Ph.D., Biology, University of California, Santa Barbara

Employment

1968-72 Research Associate, Department of Biological Sciences, University of California, Santa Barbara

1972-76 Assistant Professor of Biological Sciences, California State University, Hayward

1976-80 Associate Professor of Marine Science, Moss Landing Marine Laboratories and San Jose State University

1980-81 Research Fellow, School of Botany, University of Melbourne, Australia

1981-2002 Professor of Marine Science, Moss Landing Marine Laboratories and San Jose State University

1989 Visiting Professor, Stanford University

1992 Erskine Fellow, University of Canterbury, Christchurch, New Zealand.

1994-95 Visiting Professor and Fulbright Scholar, Ciencias del Mar, Universidad Autonoma De Baja California Sur,
La Paz, Mexico

2004- present: Professor Emeritus, Moss Landing Marine Laboratories and San Jose State University

2005-2006 Faculty Chair, Moss Landing Marine Laboratories

2006- present: Chief Scientist, Coastal Solutions Group

2009- Visiting Professor, Centre for Research on Ecological Impacts of Coastal Cities, University of Sydney,
Sydney, AustraliaResearch Interests-Marine ecology with emphasis on the population and community ecology of marine macroalgae in the rocky
intertidal zone, kelp forests and rhodolith beds

-Human impacts on temperate reef populations and communities

Memberships

American Association for the Advancement of Science

Society of Sigma Xi

Ecological Society of America

Phycological Society of America

Western Society of Naturalists

California Academy of Sciences

National Association of Underwater Instructors

American Academy of Underwater Sciences

Elkhorn Slough Foundation

Baja California Sur Ecologica Sociedad

Baja Peninsula Geological Society

Network of Bay Scientists

Awards, Offices, Boards, Journal Service.

Cum Laude Society (1968)

Society of Sigma Xi (1971)

California Academy of Sciences Fellow (elected 1986)

Editorial Board, Journal of Phycology (1988-90; 2002-2004)

Senior Editorial Advisor, Marine Ecology Progress Series (1989-1997)

Meritorious Performance and Professional Promise Award, San Jose State University (1989)

President, Western Society of Naturalists (1990)

Secretariat, Western Society of Naturalists (1991-96)

Board of Directors, Elkhorn Slough Foundation (1992-1995)

Board of Advisors, Elkhorn Slough Foundation (1995-present)

Fulbright Scholar (1994-95)

Board of Editorial Advisors, *Phycologia* (1996- 1998)
 H. Burr Steinbach Visiting Scholar - Woods Hole Oceanographic Institution (1999)
 Monterey Bay National Marine Sanctuary - Sanctuary Reflections Award for Science/Research (2001)
 Invited Professor, Instituto Politecnico Nacional, Centro Interdisciplinario de Ciencias Marinas, Mexico (2002-present)
 Senior Marine Advisor to The Nature Conservancy Marine Initiative (2003- present)
 International Temperate Reef Symposium - Lifelong Service and Contributions to Marine Science Award (2003)
 Historian, Western Society of Naturalists (2004 - present)
 Editorial Board, *Ciencias Marinas* (2006 - 2014)
 Board of Directors, Sealife Conservation Inc. (2005-)
 Monterey Bay National Marine Sanctuary – Ed Ricketts Memorial and Lifetime Achievement Award (2011)
 American Academy of Underwater Scientists – Lifetime Achievement Award (2010)
 Association of American Publishers – PROSE (PROfessional and Scholarly Excellence) Award for book, “The Biology and Ecology of Giant Kelp Forests” (2016)
 Western Society of Naturalists – Lifetime Achievement Award (2016)
 Phycological Society of America – G.W. Prescott Award for book, “The Biology and Ecology of Giant Kelp Forests” (2017)
 Advisory Committee - Salinas Valley Basin Ground Water Sustainability Agency (2018 - 2019)

Graduate Students

Served as major advisor for 63 MS degree students.

Reviewer For

Agencies: National Science Foundation, NOAA, U.S. Marine Mammal Commission, U.S. Fish and Wildlife Service, California Coastal Commission, California Energy Commission, State of California Department of Justice, Foundation for Research in Science and Technology (New Zealand), Royal Society of New Zealand, Australian Research Council, Inter-American Institute for Global Change, Natural Environment Research Council (UK), Natural Sciences and Engineering Research Council (Canada), California Resources Agency, Cal State Fullerton/PSMFC Introduced Seaweeds, Hawaii Coral Reef Initiative, Icelandic Center for Research, CONICYT (Chile)

Journals: *Science*, *Ecology*, *Ecological Applications*, *Journal of Phycology*, *Phycologia*, *Marine Ecology-Progress Series*, *P.S.Z.N. Marine Ecology*, *Journal of Experimental Marine Biology and Ecology*, *California Fish and Game*, *Marine Biology*, *Hydrobiologia*, *Australian Journal of Ecology*, *Northwest Environmental Journal*, *New Zealand Journal of Marine and Freshwater Ecology*, *Canadian Journal of Botany*, *Ecography*, *Polar Biology*, *American Naturalist*, *Oikos*, *Oecologia*, *Marine and Freshwater Research*, *Cryptogamie Algologie*, *Marine Environmental Research*, *Coral Reefs*, *Phycological Research*, *Brazilian Journal of Oceanography*, *Journal of Sedimentary Research*, *Austral Ecology*, *Canadian Journal of Earth Sciences*, *Bulletin of Marine Science*, *Geochimica Cosmochimica Acta*, *Limnology and Oceanography*, *Botanica Marina*, *Smithsonian Contributions in Botany*, *Journal of the Marine Biological Association*, U.K., *Estuarine, Coastal and Shelf Science*, *Journal of Coastal Research*, *Environmental Science and Technology*, *Journal of Applied Phycology*, *Aquatic Botany*, *Global Change Biology*, *PLoS ONE*, *African Journal of Marine Science*, *Marine Biodiversity*, *European Journal of Phycology*, *Nature*, *Pacific Science*

Other: John Wiley & Sons, University of California Press, National Geographic, International Seaweed Symposium, Smithsonian Institution, Central Coast Regional Water Quality Control Board (CCLEAN Program), University of California CCEQI, Pew Charitable Trusts, Pacific Institute

Grants, Contracts, and Fellowships

1969 NSF graduate student training grant: study at Friday Harbor Laboratories
 1973-76 CSUH faculty research grants: subtidal algal ecology and intertidal zonation studies
 1974 Department of Justice, State of California: review of damage to wildlife resulting from the Santa Barbara oil spill
 1977-78 U.S. Marine Mammal Commission: effects of sea otter foraging on kelp forest communities in central California
 1977-80 California Department of Fish and Game: surveys of four Areas of Special Biological Significance
 1978-82 California Department of Fish and Game: continued studies of the effects of sea otter foraging on kelp forest communities in central California

1978-80 Sea Grant: distribution and productivity of marsh plants in Elkhorn Slough
 1980-81 University of Melbourne: visiting research fellowship
 1978-86 Sea Grant: MLML Public Education Program
 1983-4 U.S. Fish and Wildlife Service: preparation of community profile on giant kelp forests
 1983-94 U.S. Minerals Management Service and Kinnetic Labs: Successional and seasonal variation in central and northern California rocky intertidal communities
 1984-5 U.S. Marine Mammal Commission: kelp forest surveys
 1985-6 NOAA National Undersea Research Program: disturbance and recovery in kelp forest communities at Catalina Island
 1986-9 Department of Justice, State of California: biological damage caused by oil spills
 1987-9 Monterey Bay Aquarium: the utilization of drifting giant kelp
 1988 NOAA National Undersea Research Program: the distribution and utilization of drift kelp in the deep sea
 1989 California Department of Parks and Recreation: population parameters and propagation of the Sand Gilia
 1990-1 California Energy Commission: marine environmental effects of coastal power plants
 1990-1 EPA: recovery and restoration of high intertidal *Fucus* populations after the Exxon Valdez oil spill
 1992 Office of Naval Research: symposium on molecular approaches to phylogeny, evolution, and biogeography in marine systems
 1993-95 California Energy Commission: review of biological impacts and design of monitoring program for South San Diego Bay power plant thermal discharge
 1994-95 Fulbright Scholarship: Research and teaching at Universidad Autonoma De Baja California Sur
 1995-2001, 2015-present: California Regional Water Quality Control Board, Central Coast Region: Review of Diablo Canyon Nuclear Power Plant thermal effects monitoring program
 1996-1998 Monterey Bay National Marine Sanctuary: Recovery of Intertidal Assemblages following the wreck of the F/V Trinity
 1996-1998 NOAA National Estuarine Research Reserve: Effects of human trampling on salt marshes
 1996-1999 Inter American Institute for Global Change Research: Impact of Climate Change on Nearshore Marine Diversity in the Gulf of California
 1996-1999 National Geographic: Evaluating Biological Response to Global Change Using the Fossil Record
 1999- 2003 California Energy Commission: Effects of once through coastal power plant cooling systems on the marine environment
 1999-2001 NOAA National Undersea Research Program: the ecology of deep water macroalgal assemblages in central California
 2000-03 Department of State - Fulbright Scholar Alumni Initiative Award for field courses in Baja California Sur
 2002- 03 Inter American Institute for Global Change Research: Inter-hemispheric comparative studies of ENSO effects on kelp populations
 2003-05 Monterey Bay National Marine Sanctuary: Distribution and abundance of macrophytes in Elkhorn Slough
 2006 US National Science Foundation: Support for Second International Rhodolith Workshop, La Paz, México
 2007- 2015: California State Water Resources Control Board: expert review of regulations and impacts of intakes and discharges from coastal power and desalination plants.

Consulting

1977-84 Lockheed Ocean Science Laboratories: consultation on subtidal surveys and experiments
 1980, 1984, 1988 Southern California Edison: review of benthic biological studies near the San Onofre Nuclear Generating Station
 1984 Marine Biological Consultants: consultation on intertidal and subtidal studies in the Santa Maria Basin
 1981-88 Marine Review Committee: consultation on kelp forest research
 1984-1996: Westec Services and Ogden Environmental: consultation on kelp forest research programs
 1990 U.S. Minerals Management Service: a review of macroalgal primary productivity
 1990 California Department of Fish and Game: use of kelp bioassays to assess the toxicity of pulp mill effluents
 1991-92 The Learning Company: review of educational software
 1991 NOAA Restoration Office: restoration of subtidal areas at Palos Verdes, CA
 1993 California State Coastal Conservancy: review of deep water mitigation alternatives proposed by the California Association of Port Authorities
 1997-98 NSF: Chautauqua courses on "Subtropical Marine Ecology,"
 La Paz, BCS, Mexico
 1997 CUREC: Management of rocky shores in the MBNMS

- 1997 State of California Water Quality Control Board: workshop on environmental monitoring
- 1997-1999: NSF Chautauqua Courses: The ecology of the subtropics
- 1998-99 Cities of Monterey, Watsonville and Santa Cruz: Review of effects of ocean outfalls on the marine environment
- 1998 NOAA Monterey Bay National Marine Sanctuary: Diver disturbance in kelp forests
- 1998-99 Cities of Pacific Grove and Monterey: review of the effects of kelp harvesting in the proposed Ricketts Park
- 1998-99 MBNMS Characterization of kelp canopy dynamics in central California.
- 2002 City Council, Christchurch, NZ: the effects of sewage discharge on the Avon-Heathcote Estuary
- 2003 Carmel Sanitation District: review of the marine environmental impacts of the district's discharge on Carmel Bay
- 2004-5 The Nature Conservancy: how should the marine environment be subdivided for conservation purposes?
- 2003-2007 California Energy Commission: marine environmental impacts of coastal power plants
- 2003- present: Central Coast Regional Water Quality Control Board: review of monitoring and mitigation for the environmental impacts of the Diablo Canyon Nuclear Power Plant
- 2005- 2007 Tenera Environmental: assessing and mitigating human impacts to Duxbury Reef
- 2006 –present: Haseko (Ewa) Inc., Honolulu: assessment of impacts and design of long-term surveys to detect impacts of storm drains and marina construction on benthic communities, brackish water lagoon management
- 2015-2017 Tenera Environmental – consulting on the biological impacts of the Refugio Oil Spill

Publications

BOOKS

- Elkin, L. and M. Foster. 1975. A Quarter's Worth of Experiencing Plants. Kendall-Hunt, Dubuque. 134 pp.
- Abbott, I.A., M. Foster and L. Eklund (eds.). 1980. Pacific Seaweed Aquaculture. Calif. Sea Grant College Program, La Jolla. 228 pp.
- Dawson, E.Y. and M. Foster. 1982. Seashore Plants of California. U.C. Press, Berkeley. 226 pp.
- Foster, M. and D.R. Schiel. 1985. The Ecology of Giant Kelp Forests in California: A Community Profile. U.S. Fish and Wildlife Service, Biological Report 85 (7.2), Washington, D.C. 152 pp.
- Schiel, D.,R. and Foster, M.S. 2015. The Biology and Ecology of Giant Kelp Forests. University of California Press, Berkeley. 395 pp.

PUBLISHED PAPERS

- Foster, M. 1964. Microscopic algal food of *Littorina planaxis* and *Littorina scutulata*. Veliger 7:149-152a.
- Foster, M., M. Neushul and A.C. Charters. 1971. The Santa Barbara oil spill. I. Initial quantities and distribution of pollutant crude oil. Environmental Pollution 2:97-113.
- Foster, M., M. Neushul and R. Zingmark. 1971. The Santa Barbara oil spill. II. Initial effects on littoral and kelp bed organisms. Environmental Pollution 2:115-134.
- Foster, M. 1972. The algal turf community in the nest of the ocean goldfish (*Hypsypops rubicunda*). Proceedings of the International Seaweed Symposium 7:55-60.
- Foster, M., M. Neushul and E.Y. Chi. 1972. Growth and reproduction of *Dictyota binghamiae* J.G. Agardh. Botanica Marina 15:96-101.
- Foster, M. 1975. Algal succession in a *Macrocystis pyrifera* forest. Marine Biology 32:313-329.
- Foster, M. 1975. Regulation of algal community development in a *Macrocystis pyrifera* forest. Marine Biology 32:331-342.
- Neushul, M., M. Foster, D. Coon, J. Woessner and B. Harger. 1976. An *in situ* study of recruitment, growth and survival of subtidal marine algae: techniques and preliminary results. Journal of Phycology 12:397-408.
- Foster, M. 1976. A mini-slate for recording information underwater. Underwater Naturalist 9:14-5.
- Foster, M. and R. Holmes. 1977. The Santa Barbara oil spill - an ecological disaster?, p. 166-190. *In*: Cairns, J., K. Dickson and E. Herricks (eds.). Proceedings of the International Symposium on the Recovery of Damaged Ecosystems. Univ. of Virginia Press, Charlottesville.
- Foster, M. 1980. The use of substratum manipulations in field studies of seaweed colonization and growth, p. 23-31. *In*: Abbott, I.A., M. Foster and L. Eklund (eds.). Pacific Seaweed Aquaculture. Calif. Sea Grant College Program, La Jolla.
- VanWagenen, R., M. Foster and F. Burns. 1981. Sea otter predation on birds near Monterey, California. Journal of Mammalogy 62:433-434.
- Harger, B., D. Coon, M. Foster, M. Neushul and J. Woessner. 1981. Settlement, growth and reproduction of benthic

- algae within *Macrocystis* forests in California. Proceedings of the International Seaweed Symposium 8:342-52.
- Foster, M. 1982. The regulation of macroalgal associations in kelp forests, p. 185-205. In: Srivastava, L. (ed.). Synthetic and Degradative Processes in Marine Macrophytes. Walter de Gruyter, Berlin.
- Foster, M. 1982. Factors controlling the intertidal zonation of *Iridaea flaccida* (Rhodophyta). Journal of Phycology 18:285-294.
- Cowen, R.K., C.R. Agegian and M. Foster. 1982. The maintenance of community structure in a central California giant kelp forest. Journal of Experimental Marine Biology and Ecology 64:189-201.
- Foster, M., J. Carter and D. Schiel. 1983. The ecology of kelp communities p. 53-69. In: Bascom, W. (ed.), Proceedings of the symposium on the effects of waste disposal on kelp communities. Southern California Coastal Water Research Project, Long Beach.
- Reed, D.C. and M. Foster. 1984. The effects of canopy shading on algal recruitment and growth in a giant kelp forest. Ecology 65:937-948.
- Kimura, R. and M. Foster. 1984. The effects of harvesting *Macrocystis pyrifera* on the algal assemblage in a giant kelp forest. Hydrobiologia 116/117:425-428.
- Breda, V.A. and M. Foster. 1985. Composition, abundance, and phenology of foliose red algae associated with two central California giant kelp forests. Journal of Experimental Marine Biology and Ecology 94:115-130.
- Carter, J.W., A.L. Carpenter, M. Foster and W.N. Jessee. 1985. Benthic succession on an artificial reef designed to support a kelp-reef community. Bulletin of Marine Science 37:86-113.
- Carter, J.W., W.N. Jessee, M. Foster and A.L. Carpenter. 1985. Management of artificial reefs designed to support natural communities. Bulletin of Marine Science 37:114-128.
- Foster, M. and W. Sousa. 1985. Succession. P. 269-290 In: Littler, M. and Littler, D. (eds.). Handbook of Phycological Methods: Ecological Methods for Macroalgae. Cambridge Univ. Press, Cambridge.
- Foster, M., T. Dean and L. Deysher. 1985. Subtidal techniques. Pp. 199-231 In: Littler, M. and Littler, D. (eds.). Handbook for Phycological Methods: Ecological Methods for Macroalgae. Cambridge Univ. Press, Cambridge.
- Foster, M. and A.B. Thum. 1985. Oil spills: fates and effects. Pp. 143-48. In: Tiffney, W.N. (ed.), Proceedings of the 1985 California offshore petroleum conference. Pallister Resource Management, Ltd., Malibu.
- Schiel, D. and M. Foster. 1986. The structure of subtidal algal stands in temperate waters. Oceanogr. Mar. Biol. Ann. Rev. 24:265-307.
- Foster, M., A.P. DeVogelaere, C. Harrold, J.S. Pearse, and A.B. Thum. 1988. Causes of spatial and temporal patterns in rocky intertidal communities of central and northern California. Memoirs of the California Academy of Sciences 9:1-45.
- Foster, M. and D.R. Schiel. 1988. Kelp communities and sea otters: keystone species or just another brick in the wall?, Pp. 92-115. In: VanBlaricom, G.R. and J.A. Estes (eds.), The community ecology of sea otters. Springer-Verlag, Berlin.
- Woelkerling, W.J. and M. Foster. 1989. A systematic and ecographic account of *Synarthrophyton schielianum* sp. nov. (Corallinaceae, Rhodophyta) from the Chatham Islands. Phycologia 28:39-60.
- Hymanson, Z.P., D.C. Reed, M. Foster and J.W. Carter. 1990. The validity of using morphological characteristics as predictors of age in the kelp, *Pterygophora californica* (Laminariales, Phaeophyta). Marine Ecology-Progress Series 59: 295-304.
- Foster, M. 1990. Organization of macroalgal assemblages in the northeast Pacific: the assumption of homogeneity and the illusion of generality. Hydrobiologia 192:21-33.
- Foster, M., J.A. Tarpley, S.L. Dearn. 1990. To clean or not to clean: the rationale, methods, and consequences of removing oil from temperate shores. Northwest Environmental Journal 6: 105-120.
- Foster, M. and D.C. Barilotti. 1990. An approach to determining the ecological effects of seaweed harvesting: a summary. Hydrobiologia 204/205:15-16.
- Foster, M., C. Harrold and D.D. Hardin. 1991. Point vs. photo quadrat estimates of the cover of sessile marine organisms. Journal of Experimental Marine Biology and Ecology 146:193-203.
- Foster, M., A. DeVogelaere, J. Oliver, J. Pearse and C. Harrold. 1991. Intertidal and littoral ecosystems of the northeast Pacific. Pp. 235-272 In: Mathieson, A. and Nienhuis, B. (eds.), Ecosystems of the World 24: Intertidal and Littoral Ecosystems. Elsevier Scientific Publishing Co., Amsterdam.
- Foster, M. 1991. Out of the channel: the Exxon Valdez Oil Spill in Prince William Sound (book review). The Northwest Environmental Journal 7:154-155.
- Foster, M. 1991. Rammed by the Exxon Valdez: a reply to Paine. Oikos 62:93-96.
- Schiel, D.R. and M. Foster. 1992. Restoring kelp forests. Pp. 279-342. In: Thayer, G. (ed.), Restoring the nation's marine environment. Maryland Sea Grant, College Park.
- Foster, M. 1992. How important is grazing to seaweed evolution and assemblage structure in the Northeast Pacific?

- Pp. 61-85 In: John, D.M., Hawkins, S.J. and Price, J.H. (eds.), Plant-animal interactions in the marine benthos. Systematics Association Special Vol. No. 46, Clarendon Press, London.
- Konar, B. and M. Foster. 1992. Distribution and recruitment of subtidal geniculate coralline algae. *Journal of Phycology* 28:273-280.
- Foster, M. 1993. Let sleeping oil lie. *New Zealand Science Monthly* 4:6-8.
- Foster, M. and D.R. Schiel. 1993. Zonation, El Nino disturbance, and the dynamics of subtidal vegetation along a 30 meter depth gradient in two giant kelp forests, p. 151-162 In: Battershill, C.N., Schiel, D.R., Jones, J.P., Creese, R.G., and MacDiarmid, A.B. (eds.), Proceedings of the 2nd International Temperate Reef Symposium, NIWA Marine, Wellington, New Zealand
- DeVogelaere, A. and M. Foster. 1994. Damage and recovery of intertidal *Fucus* assemblages following the Exxon Valdez oil spill. *Marine Ecology Progress Series* 106:263-271.
- Reed, D., Norris, J. and Foster, M. 1994. Dr. Michael Neushul, Jr. *Botanica Marina* 37:287-292.
- Hunt, J.W., Foster, M.S., Nybakken, J.W., Larson, R.J., and Ebert, E.E. 1995. Interactive effects of polyculture, feeding rate, and stocking density on growth of juvenile shellfish. *Journal of Shellfish Research* 14:191-197
- Schiel, D.R., N.L. Andrew, and M. Foster. 1995. The structure of subtidal algal and invertebrate assemblages at the Chatham Islands, New Zealand. *Marine Biology* 123:355-367
- Steller, D.S. and M. Foster. 1995. Environmental factors influencing the distribution and morphology of rhodoliths in Bahia Concepcion, B.C.S., Mexico. *Journal of Experimental Marine Biology and Ecology* 194:201-212
- Foster, M.S. 1996. Marine oil spills: to clean or not to clean? (interview). *Environmental Review* 3:1-5
- Graham, M., Harrold, C., Lisin, S., Light, K., Watanabe, J., and Foster, M. 1997. Population dynamics of giant kelp, *Macrocystis pyrifera*, along a wave exposure gradient. *Marine Ecology Progress Series* 148: 269-279
- Foster, M., Riosmena-Rodriguez, R., Steller, D., and Woelkerling, Wm.J. 1997. Living rhodolith beds in the Gulf of California and their significance for paleoenvironmental interpretation, P. 127-139. In: Johnson, M. and Ledesma-Vazquez, J (eds.), Pliocene carbonates and related facies flanking the Gulf of California, Baja California, Mexico. Geological Society of America Special Paper #318, Boulder.
- Reyes-Bonilla, H., Riosmena-Rodriguez, R., and Foster, M. 1997. Hermatypic corals associated with rhodolith beds in the Gulf of California, Mexico. *Pacific Science* 51: 328-337
- Foster, M.S., Hansen, G.I. and Amrein, Y.U. 1999. History of the Western Society of Naturalists. Santa Barbara Museum of Natural History Contributions in Science #2, Santa Barbara, Ca. 42 p.
- Riosmena-Rodriguez, R., Woelkerling, Wm. J. and Foster, M. 1999. A taxonomic reassessment of rhodolith-forming species of *Lithophyllum* (Corallinales: Rhodophyta) in the Gulf of California, Mexico. *Phycologia* 38: 401-417
- Anderson, B.S. and Foster, M.S. 1999. The effects of insolation and grazing on populations of the splash zone alga *Prasiola meridionalis* (Chlorophyta). *Phycologia* 38: 349-355
- Schaeffer, T., Foster, M., Landrau, M. and Walder, R. 1999. Diver disturbance in kelp forests. *California Fish and Game* 85:170-176
- Hernandez-Carmona, G., Garcia, O., Robledo, D. and Foster, M. 2000. Restoration techniques for *Macrocystis pyrifera* populations at the southern limit of their distribution in Mexico. *Botanica Marina* 43: 273-284
- Frantz, B. Kashgarian, M., Coale, K.H. and Foster, M.S. 2000. Growth rate and potential climate record from a rhodolith using ¹⁴C accelerator mass spectrometry. *Limnology and Oceanography* 45:1773-1777
- Foster, M.S. and VanBlaricom, G.R. 2001. Spatial variation in kelp forest communities along the Big Sur Coast of central California, USA. *Cryptogamie, Algologie* 22:173-186
- Foster, M.S. 2001. Rhodoliths: Between Rocks and Soft Places. *Journal of Phycology* 37:1-9
- Cintra-Buenrostro, C.E., Foster, M.S. and Meldahl, K.H. 2002. Response of nearshore marine assemblages to global change: a test using molluscs in Plesitocene versus modern rhodolith beds in the southwestern Gulf of California. *Palaeo* 183:299-320
- Goldberg, N.A. and Foster, M.S. 2002. Settlement and post-settlement processes limit the abundance of the geniculate coralline alga *Calliarthron* on subtidal walls. *Journal of Experimental Marine Biology and Ecology* 278:31-45
- Schaeffer, T.N., Jason-Smith, G., Foster, M.S. and DeTomaso, A. 2002. Genetic differences between two growth forms of *Lithophyllum margaritae* (Rhodophyta) in Baja California Sur. *Journal of Phycology* 38:1090-1098
- Foster, M.S., Nigg, E.W., Kiguchi, L.M., Hardin, D.D. and Pearse, J.S. 2003. Temporal variation and succession in an algal-dominated high-intertidal assemblage. *Journal of Experimental Marine Biology and Ecology* 289:15-39
- Steller, D.L., Riosmena-Rodriguez, R., Foster, M.S. and Roberts, C.A. 2003. Rhodolith bed biodiversity in the Gulf of California: the importance of rhodolith structure and consequences of anthropogenic disturbances. *Aquatic Conservation: Marine and Freshwater Ecosystems* 13:S5-S20

- Spalding, H., Foster, M. and Heine, J. 2003. Composition, distribution, and abundance of deep-water (>30 m) macroalgae in central California. *Journal of Phycology* 39:273-284
- Clark, R.P., Edwards, M.S. and Foster, M.S. 2004. Effects of shade from multiple kelp canopies on an understory algal assemblage. *Marine Ecology Progress Series* 267:107-119
- Rivera, M.G., Riosmena-Rodriguez, R. y Foster, M.S. 2004. Edad and crecimiento de *Lithothamnion muellerii* (Corallinales, Rhodophyta) en el suroeste del Golfo de California, Mexico. *Ciencias Marinas* 30(1B):235-249
- Schiel, D.R., Steinbeck, J.R., and Foster, M.S. 2004. Ten years of induced ocean warming causes comprehensive changes in marine benthic communities. *Ecology* 85:1833-1839
- Frantz, B.R, Foster, M.S. and Riosmena-Rodriguez, R. 2005. *Clathromorphum nereostratum* (Corallinales, Rhodophyta): the oldest alga? *Journal of Phycology* 41:770-773
- Steinbeck, J., Schiel, D.R. and Foster, M.S. 2005. Detecting long-term change in complex communities: a case study for the rocky intertidal zone. *Ecological Applications* 15:1813-1832
- McConnico, L. and Foster, M.S. 2005. Population biology of the intertidal kelp, *Alaria marginata* Postels & Ruprecht: a non-fugitive annual. *Journal of Experimental Marine Biology and Ecology* 324:61-76
- James, D.W., Foster, M.S. and O'Sullivan, J. 2006. Bryoliths (Bryozoa) in the Gulf of California. *Pacific Science* 60:117-124
- Foster, M.S., Edwards, M.S., Reed, D.C., Schiel, D.R. and Zimmerman, R.C. 2006. Top-down vs. bottom-up effects in kelp forests (Letter). *Science* 313:1737-1738
- Schiel, D.R. and Foster, M.S. 2006. The population biology of large brown seaweeds: ecological consequences of multiphase life histories in dynamic coastal environments. *Annual Review of Ecology, Evolution, and Systematics* 37:343-372
- Steller, D.L., Foster, M.S. and Riosmena-Rodriguez, R. 2007. Sampling and monitoring rhodolith beds, p. 93-97. In: Rigby, P.R., Iken, K. and Shirayama, Y., Sampling biodiversity in coastal communities: NaGISA protocols for seagrass and macroalgal habitats - A NaGISA handbook. Kyoto University Press, Kyoto, Japan
- Foster, M.S., McConnico, L.M., Lundsten, L, Wadsworth, T., Kimball, T, Brooks, L.B., Medina-Lopez, M. Riosmena-Rodriguez, R., Hernandez-Carmona, G., Vasquez-Slizondo, R.M., Johnson, S. and Steller, D.L. 2007. The diversity and natural history of a *Lithothamnion muelleri* - *Sargassum horridum* community in the Gulf of California. *Ciencias Marinas* 33:367-384
- Foster, M.S. 2008. Book review: Connell, S.D. and Gillanders, B.M., *Marine Ecology*. *Journal of Experimental Biology and Ecology* 354:241
- Steller, D.S., Riosmena-Rodriguez, R., and Foster, M.S. 2009. Living rhodolith bed ecosystems in the Gulf of California, p. 72-82. In: Johnson, M.E. and Ledesma-Vazquez, J. (eds.), *Atlas of Coastal Ecosystems in the Western Gulf of California*. University of Arizona Press, Tucson.
- Riosmena-Rodriguez, R., Steller, D.S., Hinojosa-Arango, G. and Foster, M.S. 2010. Reefs that rock and roll: biology and conservation of rhodolith beds in the Gulf of California, p. 49-71. In: Brusca, R. C. (ed.), *The Gulf of California: Biodiversity and conservation*. University of Arizona Press, Tucson
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