Shana K. Goffredi

Occidental College, Biology Dept, Los Angeles, CA 90041
323.259.1470, sgoffredi@oxy.edu

PROFESSIONAL APPOINTMENTS

OCCIDENTAL COLLEGE, LOS ANGELES, CA 2005-pres

Chair of Biology (2024-present)
Professor (2020-present)
Associate Professor (2014-2020)
Awarded the Graham L. Sterling Memorial Award for faculty excellence (2023)
Nominated for the Loftsgordon Memorial Award for Outstanding Teaching (2018/2019)
Assistant Professor (2009-2014)
Linda and Tod White Teaching Prize, Occidental College (2014)
Nominated for the Loftsgordon Memorial Award for Outstanding Teaching (2013)
Adjunct Professor (2005-2009)
Microbial symbiosis, environmental microbial diversity, general zoology

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 2004-pres

Visiting Scientist (2008-present)
Senior Research Associate (2004-2008)
Marine symbiosis, molecular physiology, microbiology

MONTEREY BAY AQUARIUM RESEARCH INSTITUTE, MOSS LANDING, CA 1998-pres

Adjunct Scientist (2016-present)
Research Associate / Project Manager (2000-2004)
Molecular ecology and evolution, symbiosis, larval biology
Postdoctoral Scholar in Environmental Science and Engineering (1998-2000)
Physiology and biochemistry of deep-sea bivalves

EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA, CA 1993-1998

Ph.D. Ecology, Evolution, and Marine Biology
Thesis: "Physiological functioning of the hydrothermal vent tubeworm *Riftia pachyptila*"

THE UNIVERSITY OF SAN DIEGO, CA 1989-1993

B.A. Biology/Marine Science
University of San Diego Presidential Scholarship

FUNDING AND AWARDS (SELECTED)

Graham L. Sterling Memorial Award for faculty excellence, Occidental College	2023
SAPPI N. America 'Ideas that Matter' grant – Deep-Sea children's books ($27,500)	2022
National Science Foundation, Biological Oceanography (OCE-2048481, $128,830)	2021
Wellcome Trust – Sanger Institute, Genomics project focused on annelid chemosymbioses	2021
National Science Foundation, Integrative and Organismal Systems (IOS-1947309, $213,809)	2020
National Science Foundation, Major Research Instrumentation (DBI-MRI, $226,559)	2018
Faculty Enrichment Grant, Occidental College ($10,817; over 5 years)	2018
Kurata Faculty Award for Excellence, Occidental College ($5,670)	2016
Center for Environmental Microbiology Interactions (California Institute of Technology, $18,300)	2015
National Science Foundation, Major Research Instrumentation (MRI-1126893, $336,750)	2011
National Science Foundation, Integrative and Organismal Systems (IOS-0923775, $128,834)	2009
National Science Foundation, Major Research Instrumentation-R2 (MRI-0960254, $106,205)	2009
National Science Foundation, Microbial Interactions and Processes (MCB-0454860, $103,620)	2006
Davidow Endowment (California Institute of Technology, $32,000)	2005
Regents Fellowship (University of California, Santa Barbara)	1997

PROFESSIONAL COMMUNICATIONS (SELECTED)

19th International Society of Microbial Ecology, Cape Town, S. Africa	2024
Society for Integrative and Comparative Biology, Seattle, WA	2024
EMBL Symposium: The cellular mechanics of symbiosis, Heidelberg, Germany	2023
Ocean Sciences, annual meeting, San Diego, CA	2020
Gordon Conference on Animal-Bacterial Symbioses, Mt. Snow, VT (invited Discussion Leader)	2019
University of Costa Rica, Deep Regions Conference, Costa Rica	2018
15th Deep Sea Biology Symposium, Monterey, CA (Plenary speaker, Session Chair)	2018
17th International Society of Microbial Ecology, Leipzig, Germany	2018
Southern California Academy of Sciences, annual meeting, Los Angeles, CA	2018
98th Annual Meeting of the Western Society of Naturalists, Los Angeles, CA	2017
16th International Society of Microbial Ecology, Montreal, Canada	2016
Gordon Conference on Animal-Bacterial Symbioses, New Hampshire	2015
15th International Society of Microbial Ecology, Seoul, South Korea	2014
American Society for Microbiology, 114th General Meeting, Boston, MA	2014
14th International Society of Microbial Ecology, Copenhagen, Denmark	2012
American Society for Microbiology, 112th General Meeting	2012
Goldschmidt Conference of the European Association of Geochemistry, Prague, Czech Republic	2011
Gordon Conference on Applied and Environmental Microbiology, S. Hadley, MA	2011
6th International Symbiosis Society Congress, Madison, WI	2009
Gordon Conference on Applied and Environmental Microbiology, S. Hadley, MA	2009
12th International Society of Microbial Ecology, Cairns, Australia	2008
American Society for Microbiology, 107th General Meeting, Toronto, Canada	2007
3rd International Symposium on Hydrothermal Vent and Seep Biology, La Jolla, CA	2005
Society for Integrative and Comparative Biology, San Diego, CA	2005
The Next Generation of In Situ Sensors in the Ocean, Woods Hole, MA	2003
American Physiological Society, Annual Meeting, San Diego, CA	2002
2nd International Symposium on Deep Sea Hydrothermal Biology, San Diego, CA	2001
9th Annual Deep-Sea Biology Symposium, Galway, Ireland	2000

INVITED PROFESSIONAL SEMINARS (SELECTED)

CSU San Bernardino, Dept. of Biology, San Bernardino, CA	2024
Max Planck Institute for Marine Microbiology, Bremen, Germany	2024
University of California, Los Angeles, Dept. of Earth, Planetary, and Space Sciences	2022
Universidad Autónoma de Baja California, Ensenada, MX	2021
Wellcome Trust, Tree of Life Programme: From Specimens to Genomes	2021
University of California, Davis – Dept. of Microbiology and Molecular Genetics	2021
University of Vienna, Austria – keynote, Establishing interactions in a dynamic environment	2020
Southern California Academy of Sciences (Spotlight - https://youtu.be/mj-jxQdkGVs)	2020
International GeoBiology Symposium on Symbiosis, Pasadena, CA	2019
Scripps Institution of Oceanography, San Diego, CA	2019
University of Southern California, Los Angeles CA	2019
California State University, Fullerton, CA	2017
Harvey Mudd College, CA	2017
University of Nevada, NV	2016
University of Costa Rica (Centro de Investigación en Ciencias del Mar y Limnología)	2013
Australian Institute of Marine Science, Australia	2013
University of Queensland, Australia	2013
University of Athens, GA	2012
University of Vienna, Austria	2012
University of Arizona, AZ	2009
Society for Industrial Microbiology	2005
Gordon Conference on Applied and Environmental Microbiology	2005

PROFESSIONAL SERVICE

National Science Foundation, panelist for Postdoctoral Research Fellowships in Biology 2024
International Advisory Board, Doctoral School of Symbioses (Univ. of Vienna) 2020
Panelist 'Out in the Classroom' and lightning research presentation 2019
Out to Innovate conference, run by the National Organization of Gay and Lesbian Scientists
Delegate for the Organization for Tropical Studies 2018-pres
Member, Board of Directors - Southern California Academy of Sciences 2016-'23
(subcommittees: Student Awards; Diversity & Inclusion; Editor for quarterly newsletter)
Panelist, Murdock Trust's Natural Sciences–Life Sciences Grants 2016-'20
Panelist 'Out and Accomplished' and Workshop leader 'Being LGBTQ in Academia' 2017
Out to Innovate conference, run by the National Organization of Gay and Lesbian Scientists
Associate Editor for *Frontiers in Microbial Symbiosis* 2013-'18
Advisor for a special session at the annual meeting of the American Society for Microbiology 2012
entitled *Microbiology Career Choices: What's Available and How to Succeed.*
Panelist and Moderator for *Out to Innovate*, a conference at Ohio State University, run by 2012
the National Organization of Gay and Lesbian Scientists and Technical Professionals
RIDGE Education and Outreach Advisory Committee 2000-'04
Monterey Bay Aquarium Research Institute – Staff Council and open house Biology coordinator 2000-'04
Peer reviewer for journals in the fields of Marine Biology, Microbiology and general sciences ongoing
Peer reviewer for funding agencies (NSF, NOAA, NASA) ongoing

PUBLIC AND K-12 OUTREACH (SELECTED)

Alaska Native Science & Engineering Program (middle school academy) - featured speaker 2024
Occidental College - Summer Undergraduate Research program – keynote speaker 2022
Cabrillo Marine Aquarium Discovery Series – featured speaker 2014/2022
Science Night Live – science improv comedy show – featured scientist 2022
Heal the Bay, Science Series – featured speaker (Earth Day / GAYpril event) 2021
ArtCenter College of Design – faculty affiliate for Illustration and Publishing course 2021
ArtCenter College of Design – guest lecture for SINC: Symbiosis In Nature & Community course 2020
Science Friday – National Public Radio (https://www.sciencefriday.com/segments/tube-worms-methane/) 2020
Inside Science – Newly Discovered Worms Use Bacteria To Digest Methane in the Deep Ocean 2020
https://www.insidescience.org/news/newly-discovered-feather-duster-worms-use-bacteria-digest-methane-deep-ocean
Neighborhood Partnership Program, participant (http://www.oxy.edu/neighborhood-partnership-program) 2019
Featured in *The New Yorker* (https://www.newyorker.com/science/elements/a-whales-afterlife) 2019
Schmidt Ocean Institute – 'Ship to Shore' classroom program 2018
Caltech Center for Diversity - STEMinar speaker series 2018
Girls in Ocean Sciences Teen Weekend - Ocean Institute (Dana Point, CA) 2018
Featured in the *LA Times* 2018
Featured in *Scientific American* 2017
Featured in *Atlas Obscura* (http://www.atlasobscura.com/articles/whale-fall-carcass) 2017
Marine Biological Laboratories – Microbial Diversity summer course, Woods Hole, MA 2015/2017
GearUp LA - Neighborhood Partnership Program 2016
Canyon Oaks High School – Guest speaker on the human microbiome 2015
Featured in *Wired* Magazine (www.wired.com/2015/02/absurd-creature-of-the-week-scaly-foot-snail/) 2015
More MOSTe Workshop for middle school and high school girls of UR minorities in STEM 2015
Cabrillo Marine Aquarium -Young Scientist Symposium (panelist) 2015
Featured in *Women in Oceanography: A Decade Later* 2014
LA County Science Olympiad, Event Captain 2012
Ocean Institute (Dana Point, CA) – Girls in Science Conference 2007/2012
Aquarium of the Pacific – featured speaker for *Night Dives* program 2012
LA County Science Olympiad, Event Captain 2011
California State University, Long Beach - Women and Careers Day 2006
Ocean Institute (Dana Point, CA) – exhibit on 'deep sea life' 2006
Super Science – scholastic journal for 4^{th}-6^{th} graders – article on deep-sea biology 2000

SELECTED COLLEGE SERVICE

Member, Search Committee for Interim Dean of the College	2024
Faculty Search Equity Committee	2022-pres
Member, Search Committee for a new TT Hydrosphere position in Geology	2022
Academic Program & Calendar Subgroup – covid-19 response	2020
Member, Advisory Council	2019-2022
Queer/Trans Services Work Group	2018
Biology Area Coordinator, URC Summer Research Program	2018
Member, Search Committee for a new TT Analytical Chemistry position in Chemistry	2017
Chair, Search Committee for a new TT Marine Environmental position in Biology	2016
Member, Interim Dean's Search Committee	2016
Member, Dean's Tenure and Promotion Process Task Force	2016
Biology Area Coordinator, URC Summer Research Program	2016
Member, Advisory Council	2015-2018
Member, Institutional Biosafety Committee	2014-pres
Member, Intellectual Culture and Academic Climate Task Force	2013
Supervised independent research for 60+ undergraduate and Master's students	2012-pres

GENERAL INTEREST PUBLICATIONS

Goffredi, S.K. (accepted) Deep-Sea Animal-Microbe Symbioses. In Vetriani, C. & Giovannelli, D. (eds). *Deep-Sea Microbiology*. Springer Nature

Goffredi, S.K. (2017) Deep-Sea Hospitality: The enigmatic worm that defies convention, in order to provide for it's internal symbionts. *The Biochemist*

REFEREED PUBLICATIONS

(**bold #**) indicates corresponding / lead author, (*) indicates Oxy undergraduates, (^) Oxy Master's student

65. Dal Bó B*, Guo Y, Mayr M, Pereira O, Levin L, Orphan V, and **SK Goffredi**. (2025). Methane-powered sea spiders: Diverse, epibiotic methanotrophs serve as a source of nutrition for deep-sea methane seep *Sericosura*. Proc Nat Acad Sci. 122 (26) e2501422122. DOI: 10.1073/pnas.2501422122.

64. Appy, RG, SK Goffredi, C Latino. (in press). Experimental elucidation of the life cycle of *Acanthobothrium* parviuncinatum Young, 1954 (Cestoda: Onchobothriidae) from the round stingray, *Urobatis halleri* (Myliobatoidea), in Southern California, with a redescription of the adult worm. Bulletin of the Southern California Academy of Sciences.

63. Seid CA, Hiley AS, McCowin MF, Carvajal JI, Cha H, Ahyong ST, Ashford OS, Breedy O, Eernisse DJ, Goffredi SK, Hendrickx ME, Kocot KM, Mah CL, Miller AK, Mongiardino Koch N, Mooi R, O'Hara TD, Pleijel F, Stiller J, Tilic E, Valentich-Scott P, Warén A, Wicksten MK, Wilson NG, Cordes EE, Levin LA, Cortés J, Rouse GW. (2025) A faunal inventory of methane seeps on the Pacific margin of Costa Rica. ZooKeys 1222: 1-250. DOI: 10.3897/zookeys.1222.134385.

62. Siehl R*, Vyhnal K* and **SK Goffredi**. (2024) Friendly Fungi: Tropical Insect Families Form Partnerships with Intracellular Fungi Related to Pathogens. iScience 27, 110674. DOI: 10.1016/j.isci.2024.110674.

61. Lizarraga A*, Appy R and **SK Goffredi**. (2024) Life cycle and development of the marine leech *Branchellion lobata* (Hirudinea: Piscicolidae), from round stingrays, *Urobatis halleri*, from southern California. Scientific Reports. 14:18108. DOI: 10.1038/s41598-024-69078-z.

60. García-Lozano M, Henzler C, Porras M, Pons I, Berasategui A, Lanz C, Budde H, Oguchi K, Matsuura Y, Pauchet Y, Goffredi S, Fukatsu T, Windsor D, Salem H (2024). Paleocene origin of a streamlined digestive symbiosis in leaf beetles. Current Biology, 34:1-14. DOI: 10.1016/j.cub.2024.01.070

59. Goffredi SK, Panossian B, Brzechffa C*, Field N*, King C, Moggioli G, Rouse GW, Martín-Durán JM, Henry. (2023). A dynamic epibiont community associated with the bone-eating polychaete genus *Osedax*. mBio. *14*(4), e03140-22. DOI: 10.1101/2022.11.14.516544.

58. Moggioli G, Panossian B, Sun Y, Thiel D, Martín-Zamora F, Tran M, Clifford A, Goffredi SK, etc. (2023) Distinct genomic routes underlie transitions to specialised symbiotic lifestyles in deep-sea annelid worms. Nature Communications. 14, 2814. DOI: 10.1038/s41467-023-38521-6.
57. Rouse GW, Goffredi SK (2023). *Osedax* (Siboglinidae: Annelida) utilizes shark teeth for nutrition. Journal of the Marine Biological Association of the United Kingdom 103:1-6. DOI: 10.1017/S0025315423000243.
56. **Goffredi SK**, Appy R, Burreson W. (2023). *Pterobdella occidentalis* n. sp. for *P. abditovesiculata* (Moore, 1952) Williams & Burreson 2006 from the staghorn sculpin, *Leptocottus armatus*, longjaw mudsucker, *Gillichthys mirabilis*, and other fishes in the Eastern Pacific. Journal of Parasitology. 109(2) 135–144
55. Goffredi SK, Hildreth R*, deRogatis J.*, Appy R. (2023). Vampire Vibrios: Persistent, internal associations with blood-feeding marine invertebrates. Frontiers in Microbiology.13. DOI: 10.3389/fmicb.2022.1113237.
54. Azofeifa-Solano JC, Pereira OS, Cowell EJ, Cordes E, Levin LA, Goffredi S, Cortés J. (2022). Sexual dimorphism in the methane seep-dwelling Costa Rican yeti crab *Kiwa puravida* (Decapoda: Anomura: Kiwaidae). Front. Mar. Sci. 9:1051590. DOI: 10.3389/fmars.2022.1051590.
53. Goffredi, S.K., C. Motooka*, D.A. Fike, L.C. Gusmão, E. Tilic, G.W. Rouse, and E. Rodríguez (2021). Mixotrophic chemosynthesis in a deep-sea anemone from hydrothermal vents in the Pescadero Basin, Gulf of California. BMC Biology 19(8). DOI: 10.1186/s12915-020-00921-1. See also Behind the Paper (https://go.nature.com/3lZUAUy).
52. Brzechffa*, C. and **S.K. Goffredi** (2021). Contrasting Influences on Bacterial Symbiont Specificity by Co-Occurring Deep-Sea Mussels and Tubeworms. Environmental Microbiology Reports.13(2): 104-111. DOI: 10.1111/1758-2229.12909.
51. Goffredi, **S.K.,** E. Tilic, S.W. Mullin, K.S. Dawson, A. Keller, R.W. Lee, F. Wu, L.A. Levin, G.W. Rouse, E.E. Cordes, V.J. Orphan. (2020). Methanotrophic bacterial symbionts fuel dense populations of deep-sea feather duster worms (Sabellida, Annelida) and extend the spatial influence of methane seepage. Science Advances 6:14, eaay8562
50. Appy, R.G., S. Goffredi, B. Pernet and C. Latino. (2019). Experimental transmission of *Rhinebothrium urobatidium* (Cestoda: Rhinebothriidea) from the round stingray (*Urobatis halleri*: Myliobatiformes) to first and second intermediate hosts. Bull. Southern California Acad. Sci. 118 (3) 1-19. https://doi.org/10.3160/0038-3872-118.3.139
49. Michel‡, A.J., Ward‡, L.E., Goffredi, S.K., Dawson, K.S., Baldassarre, D.T., Brenner, A., Gotanda, K.M., McCormack, J.E., Mullin, S., O'Neill, A., Tender, G., Uy, A.C., Yu, K., Orphan, V.J., and Chavez, J.A. (2018). The Gut of the Finch: Uniqueness of the gut microbiome of the Galápagos vampire finch. Microbiome 6:167 (doi.org/10.1186/s40168-018-0555-8). ‡co-1st authors.
48. Blankenchip, C.L.*, Michels, D.E.*, Braker, E.N., and **S.K. Goffredi** (2018) Diet breadth and exploitation of exotic plants shift the core microbiome of *Cephaloleia*, a group of tropical herbivorous beetles. Peer J 6:e4793. https://doi.org/10.7717/peerj.4793.
47. Otero-Bravo, A., S.K. Goffredi, Z. Sabree, (2018) Cladogenesis and Genomic Streamlining in Extracellular Endosymbionts of Tropical Stinkbugs. *Genome Biology and Evolution.* 10(2): 680–693. doi.org/10.1093/gbe/evy033.
46. Rouse, G, S.K. Goffredi, S.J. Johnson, R.C. Vrijenhoek. (2018.) An inordinate fondness for *Osedax* (Siboglinidae: Annelida): Fourteen new species of bone worms from California. *Zootaxa*. 4377 (4): 451-489.
45. Goffredi, S.K., S. Johnson, V. Tunnicliffe, D. Caress, D. Clague, E. Escobar, L. Lundsten, J.B. Paduan, G. Rouse, D.L. Salcedo, L.A. Soto, R. Spelz-Madero, R. Zierenberg, R. Vrijenhoek (2017). Hydrothermal vent fields discovered in the Gulf of California reveal the role of habitat in augmenting regional diversity. *Proc Royal Society B.* 284: 20170817. http://dx.doi.org/10.1098/rspb.2017.0817.
44. Aronson, H.S.*, A.J. Zellmer, **Goffredi, S.K**. (2017). The specific and exclusive microbiome of the deep-sea bone-eating snail, *Rubyspira osteovora*. *FEMS Microbiology Ecology.* 93(3): fiw250. Awarded Editor's Choice article for Issue 93.3.
43. Pasulka, A.L., S.K. Goffredi, P.L. Tavormina, K.S. Dawson, L.A. Levin, G.W. Rouse, V. J. Orphan. (2017). Colonial tube-dwelling ciliates influence methane cycling and microbial diversity within methane seep ecosystems. *Frontiers in Marine Science - Aquatic Microbiology.* 3:276. doi: 10.3389/fmars.2016.00276.
42. Klann, J.*, A. McHenry*. C. Montelongo*, **Goffredi, S.K**, (2016). Decomposition of plant-sourced carbon compounds by heterotrophic Betaproteobacteria isolated from the tank of a tropical Costa Rican bromeliad. *MicrobiologyOpen.* doi:10.1002/mbo3.344.

41. Goffredi, S.K., G. Jang*, M. Haroom. (2015) Transcriptomics in the tropics: Total RNA-based profiling of Costa Rican bromeliad-associated communities. *Computational and Structural Biotechnology Journal.* 13: 18-23.
40. Rahman, N.A., D.H. Parks, D.L. Willner, A.L. Engelbrektson, S.K. Goffredi, F. Warnecke, R.H. Scheffrahn, P. Hugenholtz. (2015). A molecular survey of Australian and North American termite genera indicates that co-evolution is the primary force shaping termite gut microbiomes. *Microbiome*. *3*:5 doi:10.1186/s40168-015-0067-8
39. Goffredi, S.K, H. Yi, Q. Zhang, J. Klann*, I. Struve*, R.C. Virjenhoek, C. Brown. (2014). Genomic versatility and functional variation between two dominant heterotrophic symbionts of deep-sea *Osedax* worms. *The ISME Journal.* 8: 908-924.
38. Ferguson, M A, ME Núñez, H-J Kim, S.K. Goffredi, E Shamskhou, L Faudree, E Chang, R M Landry, A Choi, N Thomas, J Schmitt, E M Spain. (2014) Spatially organized films from *Bdellovibrio bacteriovorus* prey lysates. *Applied and Environmental Microbiology*. 80(23): 7405–7414.
37. Bistolas, K.I.S.*, R. Sakamoto*, J.A.M. Fernandes, **Goffredi, S.K**. (2014). Symbiont polyphyly, co-evolution, and necessity in pentatomid stinkbugs from Costa Rica*. Frontiers in Microbiology.* 5:349 doi: 10.3389/fmicb.2014.00349
36. Larson, H.K., Goffredi, S.K., Parra, E.L., Vargas, O., Pinto, A., McGlynn, T.P. (2014). Distribution and dietary regulation of an associated facultative Rhizobiales-related bacterium in the omnivorous Giant Tropical Ant, *Paraponera clavata*. *Naturwissenschaften*. 101(5): 397-406.
35. Goffredi, S.K, W.J. Jones, A. Gregory*, N. Morella*, R. Sakamoto*. (2014). Ontogenetic variation in epibiont community structure in the deep-sea yeti crab, *Kiwa hirsuta*: Convergence among crustaceans*. Molecular Ecology.* 23:1457-1472.
34. Goffredi S.K., N. Morella*, M. Pulcrano*. (2012). Affiliations between bacteria and marine fish leeches (Piscicolidae), with emphasis on a new deep-sea species from Monterey Canyon, CA. *Environmental Microbiology.* 14:2429-2444.
33. Levin LA, Orphan VJ, Rouse GW, Rathburn AE, Ussler W III, Cook GS, Goffredi S.K., et al. (2012). A hydrothermal seep on the Costa Rica margin: middle ground in a continuum of reducing ecosystems. *Proc. R. Soc. B.* 279: 2580-2588.
32. Martin^, A.M. and **S.K. Goffredi.** (2012). *"Pliocardia" krylovata*, a new species of vesicomyid clam from cold seeps along the Costa Rica Margin. *Journal of the Marine Biological Association UK.* 92:1127-1137.
31. Goffredi S.K., G. Jang*, W. T. Woodside* and W. Ussler III. (2011). Bromeliad catchments as habitats for methanogenesis in tropical rainforest canopies. *Frontiers in Microbiology.* **2**:256. doi: 10.3389/fmicb.2011.00256.
30. Martin^, A.M. G. M. Martin, R. Butler, and **S.K. Goffredi.** (2011). Synthesis of keyhole limpet hemocyanin by the rhogocytes of *Megathura crenulata*. *Invertebrate Biology.* 130: 302-312.
29. Rouse, G.W., S.K. Goffredi, S. B. Johnson, and R. C. Vrijenhoek (2011) Not whale-fall specialists, *Osedax* worms also consume fishbones. *Biol. Lett.* 7:736-739.
28. Goffredi S.K., A.H. Kantor*, W.T. Woodside* (2011). Aquatic microbial habitats within a neotropical rainforest: bromeliads and pH-associated trends in bacterial diversity. *Microbial Ecology*, 61: 529-542.
27. Goffredi S.K. (2010). Indigenous ectosymbiotic bacteria associated with diverse hydrothermal vent invertebrates. *Environ. Microbiol. Reports.* 2: 479-488.
26. Goffredi S.K., V. J. Orphan. (2010). Bacterial community shifts in taxa and diversity in response to localized organic loading in the deep sea*. Environ. Microbiol.* 12: 344-363.
25. Rouse, G. W., N. G. Wilson, S.K. Goffredi, S. B. Johnson, T. Smart, C. Widmer, C. M. Young and R. C. Vrijenhoek (2009) Spawning and development in *Osedax* boneworms. *Marine Biology* 156: 395-405.
24. Goffredi S.K., W. J. Jones, H. Erhlich, A. Springer, R. C. Vrijenhoek. (2008). Epibiotic bacteria associated with the recently discovered Yeti crab, *Kiwa hirsuta. Environ. Microbiol.* 10: 2623-2634.
23. Pernthaler, A., A. E. Dekas, C. Titus Brown, S.K. Goffredi, T. Embaye, and V. J. Orphan (2008). Diverse syntrophic partnerships from deep-sea methane vents revealed by direct cell capture and metagenomics. *Proc. Natl. Acad. Sci.* 105: 7052-7057.
22. Goffredi S.K., R. Wilpiszeski, R. W. Lee, V. J. Orphan. (2008). Temporal evolution of methane cycling and phylogenetic diversity of archaea in sediments from a deep-sea whale fall in Monterey Canyon (CA). *Inter. Soc. Microbial Ecol. Journal.* 2: 204-220.
21. Ciche T. and Goffredi S.K. (2007). General Methods to Investigate Microbial Symbioses. *In:* Reddy, C. A. (ed) Methods for General and Molecular Microbiology,3rd ed. ASM Press. Washington, D.C. pp 394-420.

20. Goffredi S.K., Johnson S. and Vrijenhoek R.C. (2007). Genetic and functional diversity of microbial symbionts associated with new species of *Osedax* polychaete worms. *Applied and Environmental Microbiology.* 73: 2314-2323.
19. Osborn K.J., Rouse G.W., Goffredi S.K., and Robison B.H. (2007). Description and relationships of *Chaetopterus pugaporcinus*, an unusual pelagic polychaete (Annelida, Chaetopteridae) *Biological Bulletin* 212:40-54.
18. Goffredi S.K., Jones W.J., Scholin C.A., Marin R., and Vrijenhoek R.C. (2006). Molecular detection of marine invertebrate larvae. *Marine Biotechnology.* 1: 1-12.
17. Goffredi S.K., Orphan V.J., Rouse G.W., Jahnke L., Embaye T., Turk K., Lee R. and Vrijenhoek R.C. (2005). Evolutionary innovation: A bone-eating marine symbiosis. *Environmental Microbiology.*7: 1369-1378.
16. Seibel, B.A., S.K. Goffredi, J.J. Childress, E.V. Thuesen, R. Sherlock, and B.H. Robison. (2004). Ammonium content and buoyancy in midwater cephalopods. *Journal of Experimental Marine Biology and Ecology.* 313:375-387.
15. Rouse G.W.*, **Goffredi S.K.*** and Vrijenhoek R.C. (2004). *Osedax*: bone-eating marine worms with dwarf males. *Science.* 305:668-671. (***co-1st authors).**
14. Goffredi S.K., Hurtado L.A., Paull C., and Vrijenhoek R.C. (2004). Unusual benthic fauna associated with a whale fall in Monterey Canyon, CA. *Deep Sea Research I.* 51:1295-1306.
13. Goffredi S.K., Warén A., Orphan V., Van Dover, C.L. and Vrijenhoek R.C. (2004). Novel forms of structural integration between microbes and a vent gastropod from the Indian Ocean. *Applied and Environmental Microbiology* 70:3082-3090.
12. Goffredi S.K., Barry J.P., and Buck K.R. (2004). Vesicomyid symbioses from Monterey Bay (Central California) cold seeps. *Symbiosis* 36:1-27.
11. Warén A., Bengtson S., Goffredi S.K. and Van Dover, C.L. (2003). A hydrothermal-vent gastropod with iron sulfide biomineralized dermal sclerites. *Science* 302: 1007.
10. Goffredi S.K., Hurtado L.A., Hallam S., and Vrijenhoek R.C. (2003). Evolutionary relationships of deep-sea vent and cold seep clams (Mollusca: Vesicomyidae) of the '*pacifica/lepta*' species complex. *Marine Biology* 142:311-320.
9. Drazen J.C., Goffredi S.K., Schlining B. and D.S. Stakes. (2003). Aggregations of egg brooding deep-sea fish and cephalopods on the Gorda Escarpment: a reproductive hotspot? *Biological Bulletin* 205:1-7.
8. Orphan V.O., Goffredi S.K., Boles, J.R. and Delong E. (2003). Geochemical influence on diversity and microbial processes in high temperature petroleum reservoirs. *Geomicrobiology Journal* 20:1-17.
7. Goffredi S.K. and Barry J.P. (2002). Species-specific variation in sulfide physiology between closely related Vesicomyid clams. *Marine Ecology Progress Series* 225:227-238.
6. Goffredi S.K., and Childress J.J. (2001). Activity and inhibitor sensitivity of ATPases in the hydrothermal vent tubeworm *Riftia pachyptila*. *Marine Biology* 138:259-265.
5. Pasteris J., Freeman J. Goffredi S., and Buck K. (2001). Raman spectroscopic and laser scanning confocal microscopic analysis of sulfur in living sulfur-precipitating marine bacteria. *Chemical Geology* 180:3-18.
4. Goffredi S.K., Childress J.J., Girguis P.R., and Desaulniers N.T. (1999). The physiological functioning of carbonic anhydrase in the hydrothermal vent tubeworm *Riftia pachyptila*. *Biological Bulletin* 196:257-264.
3. Goffredi S.K., Childress J.J., Lallier F.H., and Desaulniers N.T. (1999). The ionic composition of the hydrothermal vent tubeworm *Riftia pachyptila*: Evidence for the elimination of SO_4^{2-} and H^+ and for a Cl^-/HCO_3^- shift. *Physiological and Biochemical Zoology* 72:296-306.
2. Goffredi S.K., Childress J.J., Desaulniers N.T., and Lallier F.H. (1997). Sulfide acquisition by the vent worm *Riftia pachyptila* appears to be via uptake of HS^-, rather than H_2S. *Journal of Experimental Biology* 200:2609–2616.
1. Goffredi S.K., Childress J.J., Desaulniers N.T., Lee R.W., Lallier F.H., and Hammond D. (1997). Inorganic carbon acquisition by the hydrothermal vent tubeworm *Riftia pachyptila* depends upon high external PCO_2 and upon proton elimination by the worm. *Journal of Experimental Biology* 200:883–896.