

Michael Boyce Morgan

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Education:

Ph.D., Biology, Biochemistry Minor Georgia Institute of Technology, Atlanta, Georgia	2001
M.A., Biology Loma Linda University, Loma Linda, California	1992
B.S., Biology - Zoology emphasis Pacific Union College, Angwin, California	1983

Professional Experience:

Associate Professor of Biology, Berry College	2009 to present
Affiliate Professor in Biochemistry, Berry College	2017 to present
Invited Visiting Professor , Rosario Beach Marine Laboratory	Summers 2013 & 2017
Assistant Professor of Biology, Berry College	2003 to 2008
Postdoctoral Associate, Georgia State University	2001 to 2003
Postdoctoral Fellow, Georgia Institute of Technology	2001
Graduate Research Assistant, Georgia Institute of Technology	1995-2001
Secondary school science teacher, Rosemont Middle School	1994-1995
Secondary school science teacher, San Gabriel Academy	1992-1994
Secondary school science teacher, Loma Linda Academy	1990-1992
Graduate Teaching Assistant, Loma Linda University	1988-1990
Secondary school science teacher, Escondido Adventist Academy	1983-1988

Professional Memberships:

International Society of Reef Studies	2000 to present
Sigma Xi	2006 to present
Phi Kappa Phi	2009 to present

Publications:

- Mowry, C. B., C. M. Keene, S. E. Prissland, B. D. Tyler, A. A. Montgomery, A. P. Mowry, R. A. Martin, S. Stevens, J. Ellwanger, M. B. Morgan. 2017. A Survey of *Batrachochytrium dendrobatidis* Occurrence in Amphibians of Walker and Floyd Counties, Georgia, USA. Herpetological Review – In press
- Morgan, M.B., S.E. Edge, A.A. Venn, R. Jones. 2017. Developing transcriptional profiles in *Orbicella franksi* exposed to copper: Characterizing responses associated with a spectrum of laboratory-controlled environmental conditions. Aquatic Toxicology 189: 60-76
- Morgan, M.B., K. Goodner, J. Ross, A.Z. Poole, E. Stepp, C.H. Stuart, C. Wilbanks, E. Weil. 2015. Development and application of molecular biomarkers for characterizing Caribbean Yellow Band Disease in *Orbicella faveolata*. PeerJ 3:e1371.
- Edge, S.E., T.L. Shearer, M.B. Morgan, T.W. Snell. 2013. Sub-lethal coral stress: Detecting molecular responses of coral populations to environmental conditions over space and time. Aquatic Toxicology 128-129:135-146
- Morgan, M. B., C. C. Parker, J. W. Robinson, E. M. Pierce. 2012. Using Representational Difference Analysis to detect changes in transcript expression of *Aiptasia* genes after laboratory exposure to lindane. Aquatic Toxicology 110-111: 66-73

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- Edge, S. E., M. B. Morgan, and T. W. Snell. 2008. Temporal analysis of gene expression in a field population of the Scleractinian coral *Montastraea faveolata*. *Journal of Experimental Marine Biology and Ecology* 355:114-124
- Morgan, M. B., and T. W. Snell. 2006. Expression of a ceruloplasmin homolog in corals: An informative biomarker of stress. *Proceedings of the 10th International Coral Reef Symposium*. p.822-830
- Morgan, M. B., S. E. Edge, and T. W. Snell. 2005. Profiling differential gene expression of corals along a transect of waters adjacent to the Bermuda municipal dump. *Marine Pollution Bulletin*. 51: 524-533
- Edge, S. E., M. B. Morgan, and T. W. Snell. 2005. Development of a cDNA array to examine gene expression profiles in *Monstastrea faveolata* exposed to environmental stress. *Marine Pollution Bulletin*. 51: 507-523
- Snell, T. W., S. E. Brogdon, and M. B. Morgan. 2003. Gene expression profiling in ecotoxicology. *Ecotoxicology*. 12: 475-483.
- Morgan, M. B., and T. W. Snell. 2002. Characterizing stress gene expression in reef-building corals exposed to the mosquitoside dibrom. *Marine Pollution Bulletin*. 44(11): 1204-1216
- Morgan, M. B., D. L. Vogelien, T. W. Snell. 2001. Assessing coral stress responses using molecular biomarkers of gene transcription. *Environmental Toxicology and Chemistry* 20(3): 537-543
- Morgan, M. B., and D. L. Cowles. 1996. The effects of temperature on the behaviour and physiology of *Phataria unifascialis* (Gray) (Echinodermata, Asteroidea): Implications for the species' distribution in the Gulf of California, Mexico. *Journal of Experimental Marine Biology and Ecology* 208:13-27

Published abstracts:

- Morgan, M.B., and J. Ross. 2015. Laboratory induced estradiol exposure stimulates transcriptional responses in the sea anemone *Exaiptasia pallida*. *Journal of Clinical Toxicology*. *Proceedings of 4th Global Summit on Toxicology*. DOI: 10.4172/2161-0495.S1.015
- Parker, G., and M. B. Morgan. 2004. Characterizing differentially expressed genes in the freshwater prawn *Macrobrachium rosenbergii*. *Georgia Journal of Science*. 62(1): 43
- Morgan, M. B., and T. W. Snell. 1999. Assessing coral stress responses at the level of gene expression. *American Zoologist* 39(5):122A
- Morgan, M. B., and D. L. Cowles. 1990. Observations on the distribution and physiology of *Phataria unifascialis* (Echinodermata, Asteroidea): Temperature as a limiting factor? *American Zoologist* 30(4): 131A

Presentations since 2013:

- Morgan, M.B., J. Ellwanger, R. Martin, J. Ross. 2017. Laboratory induced estradiol exposure stimulates transcriptional responses in the sea anemone *Exaiptasia pallida*. *Symbiofest*, University of Georgia, April 2017. Athens, Georgia.
- Youngblood, H., and M.B. Morgan. 2017. Fungal infections in *Montipora sp.* from American Samoa. *Symbiofest*, University of Georgia, April 2017. Athens, Georgia.
- Morgan, M. B., J. Ross, and R. A. Martin. 2016. Laboratory induced estradiol exposure stimulates transcriptional responses in the sea anemone *Exaiptasia pallida*. 13th International Coral Reef Symposium, June 2016. Oahu, Hawaii.
- Morgan, M.B., and J. Ross. 2015. Laboratory induced estradiol exposure stimulates transcriptional responses in the sea anemone *Exaiptasia pallida*. **Invited Speaker**. 4th Global Summit on Toxicology, August 2015, Philadelphia, PA.

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- Morgan, M.B. 2015. Characterizing disease progression in Caribbean Yellow Band Disease in *O. faveolata*. Symbiofest, University of Georgia, May 2015. Athens, Georgia.
- Morgan, M.B., 2015. Coral stress: Characterizing responses to pollution and disease progression. Biology Departmental Seminar. Pacific Union College, April 2015, Angwin, California.
- Morgan, M.B., 2013. Assessing coral stress: Investigating environmental questions with molecular techniques. **Invited Speaker**. E. O. Grundset Lecture series. Southern Adventist University, November 2013, Collegedale, Tennessee.
- Morgan, M. B., 2013. Cnidarian transcriptional responses to human pharmaceuticals. Symbiofest, University of Georgia, May 2013. Athens, Georgia.

Funded Grants

- Glendale Sunrise Rotary. 1995. Learning Improvement Teachers Grant. \$264.95
- Berry College. 2003. Faculty Development Grant. \$2000.00
- Berry College. 2003. Development of Undergraduate Research Grant (DUR). \$580.00
- Berry College. 2004. Faculty Development Grant. \$1000.00
- Bermuda Biological Station for Research/Khaled bin Sultan Living Oceans Foundation. 2005. Coral Ecotoxicology. \$8700.00
- Berry College. 2006. Sigma Xi-DUR grant. \$425.00
- Berry College. 2007. Faculty Development Grant. \$2000.00
- National Science Foundation. 2007. Biocomplexity supplemental grant. \$18,000.00
- Berry College. 2008. Sigma Xi-DUR grant. \$800.00
- Virgin Island-EPSCoR. 2010. Incubator Grant. \$30,061.00
- Berry College. 2012. Faculty Development Grant. \$1410.00
- Berry College. 2014. DUR grant \$449.00
- Berry College. 2015. Faculty Development Grant. \$1042.00
- Berry College. 2016. Faculty Development Grant. \$2526.00

Contracted Research

- University of Hawaii/NOAA. 2011. Molecular characterization of pigmentation response in Samoan corals. \$8740.00

Honors and Awards:

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| Senior Appreciation Award | 2014 |
| Phi Kappa Phi | 2009 |
| Who's Who Among America's Teachers. | 1994 |
| National Dean's List. | 1992 |
| Who's Who Among Students in American Universities | 1991 |
| Edmund C. Jaeger Book Award for developing biologist | 1990 |
| Loma Linda University Teaching Assistantship | 1988-1990 |