

November 2021

CURRICULUM VITAE  
**Luisa A. Marcelino**

Research Assistant Professor  
Department of Civil and Environmental Engineering  
McCormick School of Engineering and Applied Sciences  
Northwestern University  
2145 Sheridan Rd. Evanston IL 60208 Room A330  
Email: l-marcelino@northwestern.edu

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**EDUCATION**

**University of Lisbon, Portugal - Massachusetts Institute of Technology**, Cambridge, MA  
Ph.D. in Molecular Biology/Genetics, 1998

University of Lisbon Portugal, degree *in absentia* through Massachusetts Institute of Technology

**University of Lisbon, Portugal** - BS./MS. in Plant Biotechnology and Molecular Biology, 1990

**PROFESSIONAL EXPERIENCE**

**Northwestern University**, Evanston, IL. July 2009 – present  
*Lecturer*, Department of Civil and Environmental Engineering

**Northwestern University**, Evanston, IL. June 2007 – present  
*Research Assistant Professor*, Department of Civil and Environmental Engineering

**Field Museum of Natural History**, Chicago, IL. May 2007 – present  
*Research Associate*, Department of Zoology, Fishes

**Northwestern University**, Evanston, IL. January 2006 – December 2006  
*Research Associate*, Biomedical Engineering Department.

**Massachusetts Institute of Technology**, Cambridge, MA. 2001 – November 2005  
*Postdoctoral Associate and later Research Scientist*, Department of Civil and Environmental Engineering

**Massachusetts Institute of Technology**, Cambridge, MA. August 1998 – December 2000  
*Postdoctoral Associate*, Center for Environmental Health Sciences

**Massachusetts Institute of Technology**, Cambridge, MA. 1995 – July 1998  
*Ph.D. candidate and Research Assistant*, Center for Environmental Health Sciences

**University of Lisbon**, Lisbon, Portugal 1993 – December 1994  
*Ph.D. candidate and Research Assistant*, Department of Genetics, Medical School

**Perkin Elmer (Applied Biosystems)**, Foster City, CA September 1993 – October 1993  
*Visiting Research Scientist*, Research and Development Department

**University of Lisbon**, Lisbon, Portugal September 1991 – 1992  
*Research Assistant*, Department of Plant Biology, School of Sciences

## **TEACHING AND UNDERGRADUATE RESEARCH SUPERVISING**

**CEE 361-2:** Public and Environmental Health since 2010 - present

**CEE 361-1:** Environmental Microbiology Winter since 2010 - present

**CEE 361:** Environmental Microbiology and Public Health, Winter 2008 and 2009

**CEE 399:** undergraduate research Project (10 undergraduates), from 2008 -2017

1998-2005, Undergraduate Research Projects Supervisor, MIT

1992-1994, Continuous Education Studies Instructor, Medical School, University of Lisbon  
Portugal

## **POST-DOCTORAL FELLOW RESEARCH SUPERVISION**

Tim Swain, 2010, Ph.D. Biology, Florida State University currently an Assistant Professor at Nova Southeastern University with the Department of Marine and Environmental Sciences  
(<https://works.bepress.com/timothy-swain/about/>)

## **GRADUATE STUDENT RESEARCH SUPERVISION**

Valentina Stoyneva, MS Biomedical Engineering, 2011 Thesis entitled “Experimental techniques for measuring light amplification in corals and role of the skeleton in the modulation of their susceptibility to bleaching”. Co-supervisor of PhD student Graham Spicer (BME, graduated in 2019, Supervisor: Vadim Backman) and PhD student Aya Eid (BME, graduated in 2020, supervisor: Vadim Backman). Currently, co-supervisor of BME master student Aditi Sharma (supervisor: Vadim Backman).

## **UNDERGRADUATE STUDENT RESEARCH SUPERVISION**

Supervision of 30+ undergraduate students, with 13 students included as co-authors in peer-reviewed publications due to their significant contributions to the ongoing research projects, 5 students completed their Honor Thesis, 3 students received awards for best Honor thesis.

## **HONORS AND AWARDS**

Fletcher Undergraduate Research Awards for Adviser of best UGR, Northwestern, 2012  
Chemistry of Life Processes Chairman's Innovation Award, 2009 Chemistry of Life Processes,  
Northwestern University

Takeda Entrepreneurship Award, Finalist, 2002

European foundation E.R.A.S.M.U.S (March to August, 1990)

Portuguese Engineering and Biotechnology Foundation (September, 1990)

Scholarship of the Science Program conceded by the Portuguese National Technological and Scientific Organization (1991-1994)

Scholarship of the Portuguese PRAXIS XXI Program (1995)

Scholarship of the Portuguese-American Foundation (January to June, 1996)

European Community (Environment Contract EV5V-CT920197, 1994-1995)

## **INVITED TALKS AND SEMINARS**

“The Future of Coral Reefs”, Master of Science in Project Management (MPM), Expand Your Horizons dinner, April 2, 2019, Winnetka, IL

“Impacts of climate change on the rainforests of the ocean – coral reefs” Institute for Plant Science and Microbiology, University of Hamburg, Hamburg, Germany, April 2018

“Coral in the Coal Mine: What are the Oceans Telling Us?” Northwestern Climate Change Symposium, November 9-10, 2017, Evanston, IL

“Why do corals bleach differently? Two versions of the story told by the coral and its symbiotic algal partner.” National Coral Reef Institute, Nova Southeastern University, Fort Lauderdale, FL, April 9-12, 2017

“A Novel Framework of Analysis to Identify and Evaluate Key Determinants of Bleaching”, University of Copenhagen, Helsingør, Denmark, May 29- June 2, 2017

“The role of coral skeletal scattering in bleaching response”, Brown Bag Seminars, Shedd Aquarium, Chicago, IL, May 29, 2016

“The impact of global climate change- induced thermal stress on coral reef ecosystems”, Northwestern Civil and Environmental Engineering Environmental Seminar, Evanston, IL, September 2016

“Coral skeletal light-scattering accelerates bleaching”, Coral Climate Forum, Field Museum of Natural History, Chicago, IL, June 2015

“Why do corals bleach and die differently?” Environmental Engineering and Science Seminars, Northwestern University, November 2014 and April 2015

“Effects of global climate change on coral reefs as marine ecosystems”, Searle Center Research Roundtable on Natural Preservation In A Rapidly Changing Climate, October 4-5 and July 17- 18, 2014 and 2015, Chicago IL

“Coral Bleaching: The role of two partners” Coral Climate Forum, Field Museum of Natural History, Chicago, IL, April 2012

“The role of the algal symbiont and animal coral in the health of coral reefs”, Brown Bag Seminars, Shedd Aquarium, May 2011

“Standardization of bleaching and mortality records to identify key determinants of bleaching, Coral Histology workshop, Mote Marine Laboratory, August 23-27, 2010

“Tools to access bleaching response in corals”, Meeting at the International Registry of Coral Pathology Center for Coastal Environmental Health & Biomol. Research, National Oceanic Atmospheric Administration, Oxford, MD, September 7-11, 2009

“Use of novel optics technology to establish susceptibility, resistance, and recovery indicators of stony corals to bleaching”, Chemistry of Life Processes Institute, Northwestern, January 2008

## **PUBLICATIONS**

<https://scholar.google.com/citations?user=rSwpJWYAAAAJ&hl=en&oi=ao>

<https://www.scholars.northwestern.edu/en/persons/luisa-a-marcelino>

### **Peer-reviewed Journal Publications (\*Student coauthors)**

1. Swain, T. D., Lax, S., Gilbert, J., Backman, V. & Marcelino, L. A., 2021, A phylogeny-informed analysis of the global coral-Symbiodiniaceae interaction network reveals that traits correlated with thermal bleaching are specific to symbiont transmission mode. Swain, T. D., Lax, S., Gilbert, J., Backman, V. & Marcelino, L. A., May 2021, In: *mSystems*. 6, 3, e00266. doi.org/10.1128/mSystems.00266-21
2. Swain, T. D., Lax, S., Backman, V., Marcelino, L. A. 2020, Uncovering the role of Symbiodiniaceae assemblage composition and abundance in coral bleaching response by minimizing sampling and evolutionary biases, *BMC Microbiology* 20, 1, 124, 10.1186/s12866-020-01765-z
3. Spicer G.L.C.\*, Eid A.\*, Wangpraseurt D., Swain T.D., Winkelmann J.A.\*, Yi J., Kühl, Marcelino L.A., Backman V., Measuring light scattering and absorption in corals with Inverse Spectroscopic Optical Coherence Tomography (ISOCT): a new tool for non-invasive monitoring, *Scientific Reports* 9:14148 (2019)

4. Swain T.D., Lax S., Lake N.\* , Grooms H.\* , Backman V., Marcelino L.A., Relating coral skeletal structures at different length scales to growth, light availability to Symbiodinium, and thermal bleaching, *Frontiers in Marine Science* 586 1-10 (2019)
5. Swain T.D., Bold E.C.\* , Osborn P.C.\* , Baird. A.H., Westneat M.W., Backman V., Marcelino L.A. Physiological integration of coral colonies is correlated with bleaching resistance, *Mar Ecol Prog Ser*, 586: 1–10 (2018) [Feature Article]
6. Swain TD, Westneat WM, Backman V, Marcelino L.A. Phylogenetic analysis of symbiont transmission mechanisms reveal evolutionary patterns in thermotolerance and host specificity that enhance bleaching resistance among vertically transmitted Symbiodinium. *European Journal of Phycology* 53, 1-17 (2018)
7. Swain, T.D., DuBois, E.\* , Goldberg, S.J.\* , Backman V., Marcelino, L.A., Bleaching response of coral species in the context of assemblage response, *Coral Reefs* 36: 395–400 (2017).
8. Swain T.D, Vega-Perkins J.B.\* , Oestreich W.\* , Triebold C.\* , DuBois E.\* , Henss J., Baird A, Siple M., Backman V., Marcelino L.A. Differential Bleaching Among 374 Coral Taxa – role of measurement uncertainty, environmental factors and intrinsic holobiont factors, Coral bleaching response index: a new tool to standardize and compare susceptibility to thermal bleaching, *Glob Chang Biol*. 2016 Apr 13. doi: 10.1111/gcb.13276.
9. Swain T.D., DuBois E.\* , Gomes, A.\* , Stoyneva V.P.\* , Radosevich A.J.\* , Henss J., Wagner M.E.\* , Velazquez E.\* , Traub J., Kennedy B.J.\* , Janczak C.M., Grigorescu A.A., Westneat M.W., Sanborn K., Levine S., Schick M., Parsons G., Rogers J.D., Backman V., Marcelino L.A. Skeletal light scattering decreases bleaching susceptibility of reef-building corals, *BMC Ecol*. 2016 Mar 21;16(1):10. doi: 10.1186/s12898-016-0061-4.
10. Swain T.D, Chandler J.\* , Backman V., Marcelino L.A., Consensus thermotolerance ranking for 110 Symbiodinium phylotypes: an exemplar utilization of a novel iterative partial rank aggregation tool with broad application potential. *Functional Ecology*, 2016 July doi: 10.1111/1365-2435.12694
11. Marcelino L.A., Westneat M., Stoyneva V.\* , Henss J., Rogers J.D., Radosevich A.\* , Turzhitsky V.\* , Siple M.\* , Fang A.\* , Swain T.D., Fung J.\* and Backman V. Light scattering in coral skeleton - evolutionary trends in coral bleaching and in light amplification, *PLoS One*, 2013; 8 :e61492
12. Swain T.D., Lax S., Backman V., Marcelino L.A., Uncovering the role of Symbiodinium assemblage composition and structure in coral bleaching response by minimizing sampling and evolutionary biases, *accepted for publication at BMC Microbiology*
13. Swain T.D., Lax S., Gilbert J., Backman V., Marcelino L.A., Role of Symbiodinium thermotolerance in coral susceptibility to bleaching: use of coral-Symbiodinium networks and phylogenetic-corrected analysis, *submitted to Scientific Reports*
14. Eid A., Wangpraseurt D., Spicer G.L.C., Winkelmann J.A., Swain T.D., Yi J., Kühl M., V. Backman and L. A. Marcelino, Light scattering, absorption properties of tissue and coral skeleton and photophysiology of 4 scleractinian corals using Inverse Spectroscopic Optical Coherence Tomography (ISOCT) and Pulse amplitude modulated (PAM) fluorometry, *in preparation*
15. Worsfold, F., Swain T.D., Wallace A., Backman V., and Marcelino L.A., Accessing Bleaching susceptibility of 24 coral species and 160 sites in the Florida Reef Tract over 11 years of repeated thermal stress, *in preparation*
16. Sudo H., Li-Sucholeiki X.-C.; Marcelino L.A.; Gruhl A.N.; Herrero-Jimenez P.; Thilly W.G., et al., Fetal-juvenile origins of point mutations in the adult human tracheal bronchial epithelium: absence of detectable effects of age, gender or smoking status. *Mutation Res.*, 2008; 646:25-40
17. Marcelino L.A., Backman V., Donaldson A., Steadman C., Thompson J, Pacocha S., Lien C., Veneziano D., Lim E., and Polz M.F., Accurate identification of low abundant targets in pools of similar sequences by revealing hidden correlations in oligonucleotide microarray data, *Proc Natl Acad Sci USA*. 2006; 103(37):13629-34.

18. Sudo H., Li-Sucholeiki X.-C., Marcelino L.A., Thilly W.G., *et al.*, Distributions of five common point mutants in the human tracheal-bronchial epithelium, *Mutation Res*, 2006; 596(1-2):113-1127.
19. Thompson J.R., Randa M.A., L.A Marcelino, Tomita-Mitchell A., Lim E., Polz M.F., Diversity and dynamics of a North Atlantic coastal *Vibrio* community, *Applied and Environmental Microbiology* 2004; 70(7):4103-10.
20. Acinas S.G., Marcelino L.A., Klepac-Ceraj V., Polz M.F., Divergence and redundancy of 16s rRNA sequences in genomes with multiple *rrn* operons *J. Bacteriology*, 2004; 186 (9): 2629-2635.
21. Thompson JR, Marcelino L.A., Polz MF. Heteroduplexes in mixed-template amplifications: formation, consequence and elimination by 'reconditioning PCR". *Nucleic Acids Res.* 2002; 30(9):2083-8.
22. Zheng W, Marcelino L.A., Thilly WG. Scanning low-frequency point mutants in the mitochondrial genome using constant denaturant capillary electrophoresis. *Methods Mol Biol.* 2002;197:93-106, PMID:12013815
23. Tomita-Mitchell A., Kat A.G., Marcelino L.A., Li-Sucholeiki X.-C., Griffith J., and Thilly W.G., Mismatch repair deficient human cells: spontaneous and MMNG-induced mutational spectra in the HPRT gene, *Mutation Res*, 2000; 450:125-38.
24. Monteiro C, Marcelino LA, Armour JA *et al.*, Molecular methods for the detection of mutations. *Teratog Carcinog Mutagen*, 2000; 20(6): 357-86.
25. Marcelino L.A., Galvin M., Mayrand E., Proenca M.J., Martins G., Rueff J., and Monteiro C., Fast and reliable method for the routine detection of mutations in human tumors: Multiple fluorescence-based long linker arm nucleotides assay (mf-LLA), *BioTechniques*, 1999; 26, 1134-1148.
26. Marcelino L.A., and Thilly W.G., Mitochondrial mutagenesis in Human cells and tissues, *Mutat Res*, 1999; 434,177- 203.
27. Li-Sucholeiki X.-C., Khrapko K., Andre P.C., Marcelino L.A., Karger B.L., and Thilly W.G., Applications of constant denaturant capillary electrophoresis/high fidelity polymerase chain reaction to human genetic analysis, *Electrophoresis*, 1999; 20, 1224-1232.
28. Marcelino L.A., Andre P., Krapko K., Collier H.A, Griffith J. and Thilly W.G., Chemically induced mutations in mitochondrial DNA of human cells: mutational spectrum of N-methyl-N'-nitro-N-nitrosoguanidine, *Cancer Res*, 1998; 58, 2857-2862.
29. Glaser P, Kunst F, Arnaud M, Coudart MP, Gonzales W, Hullo MF, Ionescu M, Lubochinsky B, Marcelino L, Moszer I, *et al.*, *Bacillus subtilis* genome project: cloning and sequencing of the 97 kb region from 325 degrees to 333 degrees, *Mol. Microbiol*, 1993; 10 (2): 371-84.

### Book Chapters

30. Thompson J.R., Marcelino L.A., Polz M.F., Diversity, sources and detection of human bacterial pathogens in the environment. *Oceans and Health: Pathogens in the marine environment* (eds. Shimshon S. and Colwell R.). 29- 68 (Springer New York, 2005).
31. Marcelino L.A., and Monteiro C.J., Update to: Multiple fluorescence-based long linker arm nucleotides assay (mf-LLA): a fast and reliable method for the routine detection of mutations in human tumors, polymorphisms- detection and analysis. *BioTechniques series*, (eds. Burczak JD and Mardis E). 378-383 (Eaton Publishing/ Natick, 2000).

### ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS

32. Swain TD, Backman VB, Marcelino LA, Phylogenetic analysis of Symbiodinium transmission modes reveal evolutionary patterns in thermotolerance and host specificity that may contribute to coral bleaching resistance, 2018, 9th International Symbiosis Society Congress, July 15-20, 2018, Oregon USA
33. Swain TD, Backman VB, Marcelino LA. Symbiodinium thermotolerance and coral susceptibility to bleaching. 13th International Coral Reef Symposium, Honolulu, Hawaii, June 2016.

34. Marcelino LA, Swain TD, Backman VB. Coral skeletal light scattering and susceptibility to thermal bleaching. 13th International Coral Reef Symposium, Honolulu, Hawaii. June 2016.
35. Swain TD, DuBois E, Gomes A, Stoyneva VP, Radosevich AJ, Henss J, Wagner ME, Derbas J, Grooms HW, Velazquez EM, Traub J, Kennedy BJ, Janczak CM, Grigorescu AA, Westneat MW, Sanborn K, Levine S, Schick M, Parsons G, Rogers JD, Backman VB, Marcelino LA. Efficient light transport through coral skeletons precipitates bleaching response. 44th Annual Benthic Ecology Meeting, Québec, Canada, 4-7 March 2015
36. Williams K\*, Swain TD, Wagner M\*, Marcelino L. 2013. (presented by first author) Does symbiont phylotype determine host susceptibility to stress? 3rd NU Bioscientist Symposium. Evanston, Illinois.
37. Swain T.D., Gomes A., Lake N., Radosevich A., Pickard K., Kennedy B., Humecki P., Westneat M.W., Backman V., Luisa A. Marcelino, Coral skeletal fractality modulates light-backscattering to symbionts and bleaching susceptibility, (presented by first author) International Coral Reef Symposium, Cairns, Queensland, Australia, 9-13 July 2012
38. Swain T.D., Pickard K, Lake N, Henss J., Radosevich A, Gomes A., Westneat M.W., Backman V., Luisa A. Marcelino(presented by first author) "Light-scattering properties of coral skeletons at multiple morphological length-scales increase the risk of Coral Bleaching" Benthic Ecology Meetings, Mobil, Alabama, March 16-20, 2011
39. Turzhitsky, V.; Fang, A.; Fung, J.; Henss, J.; Siple, M.; Stoyneva, V.; Rogers, J. D; Wolfman, H.; Radosevich, A.; Backman, V.; Marcelino, L. A. "Optical characterization of coral skeleton with low-coherence enhanced backscattering spectroscopy." *Optical Society of America: Biomedical Optics*, Miami, FL, USA, April 11-14, 2010.
40. A. Fang, J. Fung, E. Daly, J. Henss, M. Siple, V. Stoyneva, V. Turzhitsky, J. Rogers, M. Westneat, V. Backman, L. Marcelino (November, 2008), Characterization of optical properties of reef-building corals and its implications on bleaching susceptibility, 19<sup>th</sup>. Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics, Argonne, IL
41. Backman V., Siple M., Daly E., Fang A., Fung J., Stoyneva V., Henss J., Westneat M., Turzhitsky V., Rogers J., Marcelino L.A. 2008. (presented by first author) Novel Optical Technique for characterization of light absorption and distribution in reef-building corals, 11<sup>th</sup> International Coral Reef Symposium. Fort-Lauderdale, Florida
42. Marcelino L.A Siple M., Daly E., Fang A., Fung J., Stoyneva V., Henss J., Westneat M., Turzhitsky V., Rogers J., Backman V. 2008. Characterization of optical properties of reef-building coral skeletons, 11<sup>th</sup> International Coral Reef Symposium. Fort-Lauderdale, Florida

#### **ABSTRACTS AND CONFERENCE PROCEEDINGS**

43. Thompson J.R., Acinas S.G., Klepac-Ceraj V., Pacocha S., Pharino C., Hunt D.E., Marcelino L.A., Benoit J., Rupavtarm-Sarma R., Distel D.L., and Polz M.P. (February 2005) Environmental bacterial diversity from communities to genomes, Genomes to Life, Department of Energy. Washington DC
44. Marcelino L.A., Lien C., Pacocha S., Bouzo B. Polz M.F., (May 2004), A DNA microarray approach to identifying specific bacterial strains, based on microarray fingerprinting, American Society of Microbiology. Washington Convention Center, Washington DC.
45. Sudo H., Li-Sucholeiki X.-C., Marcelino L.A., Gruhl A., Zarbl H., Willey J.C. and Thilly W.G., (July 2004) The effect of cigarette smoking on point mutations in human lung epithelium. The Nineteenth Aspen Cancer Conference: Mechanisms of toxicity, carcinogenesis, cancer prevention and cancer therapy 2004, Aspen CO.
46. Marcelino L.A., Lien C., Polz M.F., (May 2003) Optimization and evaluation of direct and indirect incorporation of fluorescent dyes into ribosomal RNA for microarray analysis of naturally occurring bacteria. American Society of Microbiology. Washington Convention Center, Washington DC.

47. Khrapko, K, Coller, H.A, Hanekamp, J.S., Marcelino L. A., and Thilly, W.G.(1998) capillary hybridization for identification of mutations. Bioengineering: building the future of biology and medicine. National Institute of Health. Bethesda, Maryland.
48. Marcelino L.A., and Thilly (1997) Mutational spectrum of N-methyl-N'-nitro-N- nitrosoguanidine (MNING) in human cell mitochondrial DNA. Gordon Research Conferences, New London, New Hampshire.
49. Marcelino L.A., M. Galvin, E. Mayrand, and C. Monteiro (1995) Multiple Color Fluorescence Based Long Linker Arm (LLA) Analysis: A rapid method for the detection of point mutations. American Journal of Human Genetics, 1995:57: 1265: Suppl. Human Genome Meeting- 9196, Heidelberg, Germany, 1996.
50. Moreira, A , da Costa, J. D., Santos, R.N., Monteiro, M.J., Matias, D., Marcelino, L.A., Martins, G., Almeida, M.R., Rueff, J.A., and Monteiro, C.(1995). Loss of heterozygosity in the MCC Gene in Human lung squamous cell carcinoma using microsatellites and fluorescence-based semi-automated genotyping, Medizinische Genetik, 2: 138: abs.
51. Moreira A, da Costa J. D., Santos R.N., Marcelino L. A., Martins G, Almeida M.R, Matias D, Rueff, J.A., Monteiro C. (1994). Loss of heterozygosity in the MCC locus in human squamous lung cancer using (CA)<sub>n</sub> and fluorescent DNA technology. Annals of Oncology, 5:8 :abs.
52. Albergaria I, Martins G, Marcelino L.A., Rueff, J., Monteiro C.J. (1993). The Use Of Glycerol in G/C-rich DNA amplification - *g6dp* gene as an example, American Journal of Human Genetics 1993: 53 (3): 1605: Suppl.
53. Monteiro C.J., Santos, R.N., Martins, G., Marcelino, L.A., Almeida, M.R., Martins, A.P., Ramos, S., Rueff, J., Melo, J. (1993). Di-nucleotide individual profiles as a tool to identify the origin of homograph cells (in non- and immunosupressed patients), American Journal of Human Genetics :53:1742: Suppl.
54. Monteiro, C.J., Albergaria, I., Almeida, M.R.,. Martins, G, Marcelino, L.A., Rueff, J. (1993). The use of glycerol in G/C-rich DNA amplification: *g6dp* gene as an example, American Journal of Human Genetics, 53: 1605: abs.

## PROFESSIONAL SERVICE

Membership in Professional Societies: American Society for Microbiology, American Association for the Advancement of Science, International Society for Reef Studies (ISRS), American Society of Limnology and Oceanography  
 Journal Peer-reviewer: Nature Communications, Scientific Reports, Limnology and Oceanography, PLoS One, Proc Royal Academy of Sciences London B, Elsevier Journals, J of Experimental Marine Biology and Ecology, Journal of Applied Microbiology, Biotechniques, Journal of Medical Genetics,

## COLLABORATORS:

- Vadim Backman, Professor of Biomedical Engineering at McCormick School of Engineering, Northwestern University
- Mark Westneat, Professor, Department of Organismal Biology and Anatomy, University of Chicago
- Jack Gilbert, Associate Professor, Department of Ecology & Evolution Department of Surgery and Associate Director, Institute for Genomics and Systems Biology
- Bernhard Riegl, Associate Director, National Coral Reef Institute, NOVA Southeastern University
- Andrew Baird, Professorial Research Fellow, James Cook University, Australia
- Michael Kühl, Professor, Department of Environmental Ecology, University of Copenhagen

- George Parsons, Senior Curator at the Fishes Department, Shedd Aquarium  
<http://www.sheddaquarium.org/Animals--Care/Animal-Experts/George-Parsons/>
- Anderson Mayfield, Researcher at the National Museum of Marine Biology and Aquarium in Taiwan
- Andrew Jacobson, Professor of Earth and Planetary Sciences and Director of the Environmental Sciences Program, Northwestern University