

**EDUCATION**

**University of Delaware, Newark, DE** 2006-2011

**Ph.D. in Molecular Biology and Genetics**

Dissertation: "The Involvement of Insulin-Like Binding Protein 2 in Prostate Cancer Progression and Metastasis"  
Advisor: Dr. Robert Sikes

**University of Delaware, Newark, DE** 2011  
**Higher Education Teaching Certificate**

**Fairleigh Dickinson University, Madison, NJ** 2002-2006  
**B.S. in Biology**

**TEACHING EXPERIENCE**

**Assistant Professor** **Stockton University, Galloway, NJ** 2011-present  
Cells and Molecules Lecture 1200 (8),  
Cells and Molecules Lab 1205 (2),  
Biodiversity and Evolution 1400 (1)  
Genetics Lecture 2110 (1),  
Genetics Lab 2115 (12),  
Cell Biology and Biophysics 3190 (1),  
Ecology and Saltwater Fishing GNM-2249 (1)

**Assistant Professor** **Brookdale College, Lincroft, NJ** 2012, 2013  
General Biology 101 (3)

**High School Liaison For Dual Credit Program** **Stockton University, Galloway, NJ** 2013-2015  
Liaison for Jon Sarno at Mainland Regional,  
Ruth Tummey at Southern Regional,  
Matthew Oster at Ocean County,  
Corinne Alberghini and Joe O'Neil at Egg Harbor Township High Schools

**Lecturer** **University of Delaware, Newark, DE** 2008-2011  
Molecular Biology of The Cell (BISC402),  
Advanced Cell Biology (BISC612),  
Cancer Biology (BISC625),

**Instructor** **St. Georges Vocational High School, New Castle, DE** 2008- 2009  
GK-12 Program Sophomore Biology  
Conducted labs/lectures.  
Developed problem-based learning strategies and formative assessment probes for which students showed learning progress

<b>Teaching and Laboratory Assistant</b>	<b>University of Delaware, Newark, DE</b> Introduction to Microbiology Laboratory (BISC30002)	2007
	<b>University of Delaware, Newark, DE</b> Introduction to Biology Laboratory (BISC207)	2006

### PROFESSIONAL DEVELOPMENT

Co-conducted Marine Life and Seining Seminar (6/20/13) (7/3/14)		2013, 2014
Dual Credit Program: Stockton University, Galloway, NJ		
Attended the New Faculty Institute Pedagogy Lectures (9/3, 9/10)		2014
Attended Pedagogy Webinar by Cengage Learning (8/28)		2014
Higher Education Teaching Certification, University of Delaware		2012
Genital-Urinary Conference at Christiana Hospital	(Monthly)	2007-2011
Tumor Board Conference at Christiana Hospital	(Weekly)	2007-2011
American Cancer Society, Prostate Cancer Warriors Meeting	(Monthly)	2007-2011
Member of Student American Chemical Society		2003, 2004

### RESEARCH MENTORING

Dylan Audette (Undergraduate), Aided in admission to Graduate School at University of Delaware  
Soma Jobbagy (Undergraduate), Helped obtain Arnold and Mabel Beckman Scholarship

### TEACHING INTERESTS

Introductory/General Biology  
Cell Biology  
Molecular Biology  
Genetics  
Microbiology  
Environmental  
Biodiversity and Evolution

### RESEARCH EXPERIENCE

<b>Research Assistant</b>	<b>University of Delaware, Newark, DE</b> Dr. Robert Sikes Dissertation on "The Involvement of Insulin-Like Binding Protein 2 in Prostate Cancer Progression and Metastasis"	2006-2011
<b>Internship Research</b>	<b>Hoffman LaRoche, Nutley, NJ</b> Scientific Summer Intern in Pharma Development Quality Management. Developed NMR-spectrum library for chemical inventory	2005, 2006
	<b>Jersey Coast Angler Association, Toms River, NJ</b> <b>In Conjunction with Rutgers University</b> Data Analyst for a socioeconomic study of two summer flounder tournaments in New Jersey	2004-2005
<b>Undergraduate Research</b>	<b>Fairleigh Dickinson University, Madison, NJ</b> Dr. Elizabeth Hixenbaugh, Biology Analysis of antibiotic resistant bacteria from hospital outflows	2004-2006

## PUBLICATIONS

**Adam A. Aguiar**, *Plugging Fall Stripers*. The Fisherman Magazine – NJ Edition, Nov, 2015.

**Adam A. Aguiar**, *Surf Fishing: Peanut Bunker Blitzes and Sand Eel Raids*. The Fisherman Magazine – NJ Edition, Oct. 10, 2013.

Bonnan MF, Wilhite DR, Masters SL, Yates AM, Gardner CK, **Aguiar, A.A.** (2013) *What Lies Beneath: Sub-Articular Long Bone Shape Scaling in Eutherian Mammals and Saurischian Dinosaurs Suggests Different Locomotor Adaptations for Gigantism*. PLoS ONE 8(10): e75216. doi:10.1371/journal.pone.0075216

Miles F.L., Tung N.S., **Aguiar A.A.**, Kurtoglu S, Sikes R.A., *Increased TGF- $\beta$ 1-mediated suppression of growth and motility in castrate-resistant prostate cancer cells is consistent with Smad2/3 signaling*. Prostate, 2012 72(12):1339-50

**Adam A. Aguiar**, David J. DeGraff, Qian Chen, Lisa K. Adams, B. Jill Williams, and Robert A. Sikes, *Androgen Mediated Translational and Postranslational Regulation of IGFBP-2 in Androgen-Sensitive LNCaP Human Prostate Cancer Cells*. American Journal of Translational Research, 2010. 2(2):200-208

**Adam A. Aguiar**, David J. DeGraff, and Robert A. Sikes, *Disease Evidence for IGFBP-2 as a key player in prostate cancer progression and development of osteosclerotic lesions*. American Journal of Translational Research, 2009. 1: 115-130

David J. DeGraff, Manisha Malik, Kenichi Miyako, Lidia Rejto, Pinchas Cohen, Diccon Bancroft, **Adam A. Aguiar**, Robert A. Sikes, *Hormonal regulation of IGFBP-2 proteolysis is attenuated with progression to androgen insensitivity in the LNCaP progression model*. Journal of Cellular Physiology, 2007 Oct:213(1):261-8

## PUBLICATIONS [in progress]

**Adam A. Aguiar**, Erica J. Dashner, David J. DeGraff, and Robert A. Sikes, *The Involvement of IGFBP-2 in Prostate Cancer Progression and Metastasis*. American Journal of Translational Research, 2016. (In Prep)

## PRESENTATIONS

Lecture on *Striped Bass Fishing*. Shep of Fishing, Michael Shepherd, 1400 AM WOND, 12/27/2014

Lecture on *Eukaryotic RNA Processing and Modifications*. Molecular Biology of The Cell, University of Delaware, 2011

Lecture on *Hormone Signaling*. Advanced Cell Biology, University of Delaware, 2011

Lecture on *Prostate Cancer Progression and Recurrence*. Prostate Cancer Survivors meeting, American Cancer Society, 2010

Lecture on *Androgen Receptor Blockade Treatment in the Treatment of Prostate Cancer*. Tumor Board, Graham Cancer Center, Christiana Hospital, 2010

Lecture on *Hormonal Regulation of IGFBP-2 During Prostate Cancer Progression*. Cancer Biology, University of Delaware, 2009

Presentations on *Insulin-Like Growth Factor Binding Protein 2 Promotes The Prostate Cancer Metastatic Phenotype*. Cancer Working Group, Biological Sciences, University of Delaware, 2008, 2009

**Adam Aguiar**, Dave DeGraff, Christine Maguire, and Robert A. Sikes, *IGFBP-2 Stimulates the Metastatic Phenotype of Prostate Cancer Cells in vitro*. INBRE EAB Poster Presentation, 2007

## HONORS AND AWARDS

<b>Type of Award</b>	<b>Institution</b>	<b>Year</b>
G Course Construction, Application Approval, and Execution	Stockton University, Galloway, NJ	2013-2014
President's Saatkamp Letter of Appreciation for Scholarship Letters	Stockton University, Galloway, NJ	2013
Higher Education Teaching Certification	University of Delaware	2011
Sigma Xi Scientific Society	International, multidisciplinary research society	2011
University Graduate Scholars Award	Office of Graduate studies University of Delaware	2010-2011 (Spring)
University Graduate Competitive Fellows Award	Office of Graduate studies University of Delaware	2009-2010 (Spring)
GK-12 Fellowship	St. Georges High School/ University of Delaware	2008-2009
University Graduate Scholars Award	Office of Graduate studies University of Delaware	2008-2009
University Graduate Scholars Award	Office of Graduate studies University of Delaware	2007-2008
Academic Dean's List	Fairleigh Dickinson University	2003-2006

## **COLLEGE SERVICE**

Student Instant Decision Days (11/13/15, 10/30/15, 11/7/14, 10/24/14)	2014-2015
Precepting of 2 Students	2015
Genetics Lab Budget Committee	2015
Science Enrichment Academy at Stockton (SEAS) Program (Co-developed and conducted program with multiple activities, lectures, and a nature trip)	2015
Jersey Shore Science Fair Judge	2014-2015
Poster Judge for NAMS Student Research Symposium	2013-2015
Transfer Student Orientation (all days: 7/2, 7/7-7/10, 8/6)	2014
Conrad Foundation Spirit of Innovation Challenge Student Research Reviewer	2014
Scholarship Application Support Letters (As demonstrated by President Saatkamp's Letter of Appreciation)	2013
Environmental Protection Activity: Washington DC Protest of Keystone Pipeline	2013

## **COMMUNITY SERVICE**

Mr. B's Backyard Classroom: Naturefest (Galloway School District) (6/5)	2015
DEP/WCC Volunteer Fishing Demonstration and seminars for DEP's Divisions of Fish and Wildlife, Parks and Forestry, the Green Acres Program, and the Conserve Wildlife Foundation of New Jersey (9/12/15-9/13/15) (9/15/13) (9/13/14)	2013-present
Data Collection for State-wide Summer Flounder Tournament (8/1) (Jersey Coast Anglers Association and Fisheries Cooperative Center Rutgers University)	2015
CFC Loud and Clear Foundation Volunteer (12/20, 12/26)	2015
New Jersey Fisheries Regulations Meeting (Jersey Coast Anglers Association) (10/28)	2014
Reconstruction of School Playgrounds for Kaboom Inc. and Nebus Contracting (8/24/13)	2013
Littoral Society Striped Bass Tagging Program	2012-present
Seven Days of Hurricane Sandy Relief Effort (Ray Nebus Construction: Toms River, Tinton Falls, Seaside Heights, Beach Haven, and Ventnor City NJ)	2012
Health and Wellness Fair (Bethel African Methodist Episcopal Church, Wilmington, Delaware)	2010
Breast Cancer Relay for Life (American Cancer Society)	2009
Graduate Student Senate Liaison for Biology Graduate Student Association (BGSA)	2007, 2008
Member of Biology Club	2003, 2004
TAU KAPPA EPSILON Fraternity safety officer and community out-reach	2003, 2004
Volunteer Work at Sandy Hook [Gateway National Recreation Area] (Protection of endangered bird species)	2003
Volunteer Work Tinton Falls, NJ, (Community Cleanup)	2002

## REFERENCES

Dr. Robert Sikes  
PhD. Advisor  
Professor of Molecular Biology/  
Director of Center for Translational Cancer Research  
University of Delaware  
Newark, DE, 19716  
Phone: (302) 831-6050  
Cell Phone: (302) 379-5752  
[rasikes@udel.edu](mailto:rasikes@udel.edu)

Dr. Tara Luke  
Associate Professor of Biology  
Stockton University  
101 Vera King Farris Drive  
Galloway, NJ 08205-9441  
(609) 652-4965  
[Tara.Luke@stockton.edu](mailto:Tara.Luke@stockton.edu)

Dr. David W. Burleigh  
Associate Professor of Biology  
Biology Coordinator  
Stockton University  
101 Vera King Farris Drive  
Galloway, NJ 08205-9441  
(609) 652-4466  
[David.Burleigh@stockton.edu](mailto:David.Burleigh@stockton.edu)

Dr. Guy Barbato  
Assistant Professor of Biology  
Stockton University  
101 Vera King Farris Drive  
Galloway, NJ 08205-9441  
Phone: (609) 652-4404  
Cell Phone: (814) 777-2973  
[Gfb1@stockton.edu](mailto:Gfb1@stockton.edu)

Dr. William Rosche  
Associate Professor of Biology and Faculty Mentor  
Stockton University  
101 Vera King Farris Drive  
Galloway, NJ 08205-9441  
(609) 652-4683  
[William.Rosche@stockton.edu](mailto:William.Rosche@stockton.edu)

Dr. Ekaterina Sedia  
Associate Professor of Biology  
Stockton University  
101 Vera King Farris Drive  
(609) 652-4569  
[Kathy.Sedia@stockton.edu](mailto:Kathy.Sedia@stockton.edu)