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I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Employment

2018 – present	Associate Professor Department of Biology Howard University Washington, DC 20059
2012 – 2018	Assistant Professor Department of Biology Howard University Washington, DC 20059
2011	Adjunct Faculty/Lecturer Department of Biology University of Maryland College Park, MD 20742
2008 – 2009	Adjunct Faculty/Lecturer Northern Virginia Community College (Alexandria) Biology Department Alexandria, VA 22311

B. Appointments

2012 – present	Visiting Research Scientist National Institutes of Health (NIH), NIDDK Bethesda, MD 20892
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C. Training

2008 – 2012	Post-doctoral Fellow National Institutes of Health, NIDDK <u>Mentor:</u> Dr. Andy Golden
2007 – 2008	Post-doctoral Fellow Carnegie Institution for Science Department of Embryology <u>Mentor:</u> Dr. Allan Spradling
1999 – 2001	Student Intramural Researcher (IRTA) National Institutes of Health, NICHD <u>Mentor:</u> Dr. Alan G. Hinnebusch

D. Education

2007	Doctor of Philosophy in Biology Johns Hopkins University Baltimore, MD
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Dissertation: The *Drosophila* *SF-1*-like nuclear hormone receptor *Hr39* is essential for female reproductive tract development and function

Advisor: Dr. Allan Spradling

2001 Bachelor of Science in Biology and Environmental Studies
(Summa Cum Laude, with Honors)
George Washington University
Washington, DC

Thesis: A study of the differential requirements for nonessential coactivator subunits in transcriptional activation by GCN4 in *Saccharomyces cerevisiae*.

Advisor: Dr. Alan G. Hinnebusch

E. Honors, Awards and Fellowships

2017 2017 Exemplary Syllabus Award Winner
CETLA, Howard University

2016 Advanced Summer Faculty Research Fellowship
Howard University

2016 2016 Exemplary Syllabus Award Winner
CETLA, Howard University

2014 Society for Developmental Biology Teaching Faculty Award

2014 - 2015 ASCB/NSF Faculty Research and Education
Developmental (FRED) Award

2009 – 2012 Nancy Nossal Postdoctoral Fellowship Award
National Institutes of Diabetes, Digestion and Kidney
Diseases (NIDDK)
Competitive award among intramural NIDDK fellows

2003 Dupont Teaching Award
Developmental Biology
Johns Hopkins University

1997 – 2001 George Washington University Merit Based Scholarship

II. SCHOLARSHIP

A. Publications

Color Key: purple = undergraduate green = graduate student
red = postdoctoral trainee blue = faculty member

Code Key:

a: Major responsible author as trainee: conceived, directed, analyzed, and documented the investigation under faculty supervision.

b: Major responsible (first) author as faculty member: conceived, directed, analyzed, documented the investigation, and served as corresponding author.

c: Senior author: served as corresponding author; supervised major responsible author, who was usually a trainee.

d: Co-author (as trainee or faculty): contributed to conception, conduct, analysis, and/or documentation, but not major responsible author.

i. Peer-reviewed Papers

1. ^b Boateng, R. and **Allen, A.K.** New Role for an Old Protein: An Educational Primer for Use with “The identification of a novel mutant allele of *topoisomerase II* in *C. elegans* reveals a unique role in chromosome segregation during spermatogenesis”. *Genetics* 2018 Jan 208(1):79-88.
2. ^c Boateng, R., Nguyen, K.C.Q., Hall, D.H., Golden, A., and **Allen, A.K.** Novel functions for the RNA-binding protein ETR-1 in *Caenorhabditis elegans* reproduction and engulfment of germline apoptotic cell corpses. *Developmental Biology*. Epub June 23rd 2017.
3. ^d Elgin, S.C., Hauser C., Holzen, T.M., Jones, C., Kleinschmit A., Leatherman, J., and **Genomics Education Partnership***. The GEP: Crowd-Sourcing Big Data Analysis with Undergraduates. *Trends Genet.* Epub December 6th, 2016.
4. ^b **Allen, A.K.***, Nesmith, J.E., and Golden, A. An RNAi-based suppressor identifies interactors of the Myt1 ortholog of *Caenorhabditis elegans*. *G3: Genes Genomes Genetics*. 2014 Dec 4(12):2329-2343.
* Corresponding author
5. ^d Shakes, D.C., **Allen, A.K.**, Albert, K.M., and Golden, A. *emb-1* encodes the APC16 subunit of the *Caenorhabditis elegans* Anaphase-Promoting Complex. *Genetics* 2011 Oct 189:549-560.
6. ^a **Allen, A. K.** and Spradling, A. C. The *SF-1*-like nuclear hormone receptor *Hr39* regulates *Drosophila* female reproductive tract development and function. *Dev* 2008 Jan 135(2):311-21.
7. ^d Buszczak, M., Paterno, S., Lighthouse, D., Bachman, J., Plank, J., Owen, S., Skora, A., Nystul, T., Ohlstein, B., **Allen, A.**, Wilhelm, J., Murphy, T., Levis, R., Matunis, E., Srivali, N., Hoskins, R., and Spradling, A.C. The Carnegie protein trap library: a versatile tool for *Drosophila* developmental studies. *Genetics* 2007 Mar 175(3):1505-31.
8. ^d Kadaba, S., **Krueger, A.**, Trice, T., Krecic, A.M., Hinnebusch, A.G., and Anderson, J. Nuclear surveillance and degradation of hypomodified initiator tRNAMet in *S. cerevisiae*. *Genes Dev.* 2004 Jun 1;18(11):1227-40.
9. ^d Swanson, M.J., Qiu, H., Sumibcay, L., **Krueger, A.**, Kim, S.J., Natarajan, K., Yoon, S., and Hinnebusch, A.G. A multiplicity of coactivators is required by Gcn4p at individual promoters in vivo. *Mol Cell Biol.* 2003 Apr 23(8):2800-20.

ii. Manuscripts under review

1. ^c Boateng, R., Chopade, A., and **Allen, A.K.** A one-semester, undergraduate, CRISPR/Cas9 endogenous genome editing research experience in *C. elegans*. *Journal of Microbiology & Science Education*. Under review July 2017.
2. ^d Tootle, T.L., Hoffman, D., **Allen, A.K.**, Spracklen, A., Groen, C., and D. Keplsh. Mini-CURE as an approach to increase interest in biomedical science education and careers. Expect to submit Fall 2017. *Journal of College Science*.

iii. **Manuscripts in preparation**

1. ^dFernando, L.M., Basar, M.A., Wassim, S., Williams, J., **Allen, A.K.**, and Duttaroy, A. A comparative SOD activity profiles suggest *C. elegans* carry a single active SOD isoform. Expect to submit Fall 2017.
2. ^dFernando, L.M., and **Allen, A.K.** The Wee/Myt family of kinases. Molecular Reproduction and Development. *Invited Review*. Due February 2018.

B. Abstracts (presented)

1. Novel functions for the RNA-binding protein ETR-1 in *Caenorhabditis elegans* reproduction and engulfment of germline apoptotic cell corpses. R. Boateng, K.C.Q. Nguyen, D.H. Hall, A. Golden, and **A.K. Allen**. *Gordon Research Conference: Fertilization & Activation of Development*. 2017.
2. Novel functions for the RNA-binding protein ETR-1 in *Caenorhabditis elegans* reproduction and engulfment of germline apoptotic cell corpses. R. Boateng, K.C.Q. Nguyen, D.H. Hall, A. Golden, and **A.K. Allen**. *21st International C. elegans Conference*. 2017.
3. Identifying a novel role for ETR-1 in *Caenorhabditis elegans* reproduction and hermaphrodite physiological germ cell apoptosis. **A.K. Allen**, R. Boateng, K. Ramirez, D. Hall, and A. Golden. *75th Society for Developmental Biology Conference*. 2016.
4. The Genomics Education Partnership: Assessment of Key Elements of a Course-based Undergraduate Research Experience (CURE). J. Leatherman, **A. Allen**, J. DiAngelo, M. Johnson, C. Jones, L. Kadiec, H. Mistry, A. Nagengast, D. Paetkau, S. Parrish, L. Reed, C. Rolle, J. Sanford, K. Saville, C. Small, J. Stamm, M. Wawersik, L. Zhou, D. Lopatto, S. Elgin, and The Genomics Education Partnership. *The Allied Genetics Conference*. 2016.
5. Characterization of a novel role for ETR-1 in *C. elegans* reproduction. R. Boateng, Kristina Ramirez, A. Golden, and **A.K. Allen**. *Gordon Research Conference: Fertilization & Activation of Development*. 2015.
6. Identifying new players in meiosis using *C. elegans* depleted of the meiotic inhibitory kinase WEE-1.3. **A.K. Allen**, J. Nesmith, and A. Golden. *American Society for Cell Biology*. 2014.
7. Role of the inhibitory kinase WEE-1.3 in regulating the meiotic cell cycle and fertility in *C. elegans*. **A.K. Allen**, J. Nesmith, and A. Golden. *Society for Developmental Biology*. 2014.
8. Role of the inhibitory kinase WEE-1.3 in regulating the meiotic cell cycle and fertility in *C. elegans*. **A.K. Allen**, J. Nesmith, and A. Golden. *Model Organisms to Human Biology- Cancer Genetics*. 2012.
9. Investigating the role of WEE-1.3 in *C. elegans* oocyte maturation. **A.K. Allen**, J. Nesmith, and A. Golden. *International Worm Meeting*. 2011.
10. Investigating the role of WEE-1.3 in *C. elegans* oocyte maturation. **A.K. Allen**, J. Nesmith, and A. Golden. *Cold Spring Harbor Laboratory: Germ Cells*. 2010.

11. Investigating the role of WEE-1.3 in *C. elegans* oocyte maturation. **A.K. Allen** and A. Golden. *Gordon Conference: Fertilization and Activation of Development*. 2009.
12. Characterizing the role for *C. elegans* ZYG-8, ZYG-9, and TAC-1 in the oocyte meiotic divisions. **A.K. Allen**, K. Stein, and A. Golden. *C. elegans Development & Evolution Meeting*. 2008.
13. Characterizing the role for *C. elegans* ZYG-8, ZYG-9, and TAC-1 in the oocyte meiotic divisions. **A.K. Allen**, K. Stein, and A. Golden. *NIH, NIDDK Fellows Retreat*. 2008.
14. The *SF-1*-like nuclear hormone receptor *Hr39* regulates *Drosophila* female reproductive tract development and function. **A.K. Allen** and A. Spradling. *Model Organisms to Human Biology 2 (MOHB2)*. 2008.

C. Areas of Research Interest and Current Projects

- i. Research Interests: Investigating the mechanisms by which a high quality oocyte is formed that is capable of being fertilized and undergoing successful early embryonic development.
- ii. Current Research Projects:
 1. Dissect the mechanism by which the RNA-binding protein ETR-1 affects reproduction, particularly egg quality.
 - a. Determine the mechanism by which ETR-1 acts during physiological germline apoptosis.
 - b. Identify the mRNA targets of ETR-1 involved in reproduction.
 - c. Determine the mechanism by which ETR-1 depletion is able to suppress the infertility observed upon WEE-1.3 depletion.
 2. Determine the non-canonical role for the 26S proteasome in *C. elegans* reproduction.
 3. Investigate the role of the protein GLR-6 and the RIA neurons in *C. elegans* oocyte maturation and reproduction.
 4. Delineate the active SOD enzyme activity in *C. elegans* (collaboration with Dr. Atanu Duttaroy, Howard University).
 5. Characterize the effect of a small molecule inhibitor of RACK-1 in *C. elegans* (collaboration with Dr. Hemayet Ullah, Howard University).
 6. Determine the role of *clu-1* in *C. elegans* (collaboration with Dr. Rachel Cox, Uniformed Services University of the Health Sciences).

D. Research Support

Current

- i. "Defining the novel role for the RNA-binding protein ETR-1 in *C. elegans* gametogenesis".

Role: Principal Investigator
Agency: NICHD, NIH, Award 1R15HD084253-01A1
Type: R15 (AREA – Academic Research Enhancement Award)
Period: Sept 2016 – August 2019
Total amount awarded: \$388,397
- ii. Enhancing research in the STEM disciplines at Howard University by elucidating the potential non-canonical roles of the 26S proteasome in *C. elegans* reproduction.

Role: Principal Investigator
Agency: Department of Defense (DoD) Research and Education
Program for HBCU/MI Equipment/Instrumentation Grant,
Funding Opportunity Number W911NF-17-S-0010
Period: June 01, 2018 – May 31, 2021
Total amount requested: \$596,487.95

Completed

- iii. "Acquisition of a Spinning Disk Confocal Microscope to Enhance Research and Teaching Capabilities in the STEM Fields at Howard University"
Role: Principal Investigator
Agency: Department of Defense (DoD) Research and Education
Program for HBCU/MI Equipment/Instrumentation Grant, Award
64684-RT-REP
Period: Feb 2014 – Jan 2015
Total amount awarded: \$450,444.03
- iv. "Roswell Park/Howard University Prostate Cancer Scholars Program"
Role: Faculty Advisor
Agency: Department of Defense (DoD) Prostate Cancer Research
Program for Collaborative Undergraduate Historically Black
Colleges and Universities Student Summer Training Award
(Award W81XWH-13-PCRP-STPA)
Type: Student Summer Training Award
Period: Sept 2014 – Aug 2017
Total amount awarded: \$15,684
- v. "Characterization of a novel role for ETR-1, an RNA-binding protein in *C. elegans*, in germline development and/or function."
Role: Principal Investigator
Agency: HU ADVANCE-IT Mini-Grant
Period: September 2014 – September 2015
Total amount awarded: \$15,062
- vi. "Elucidating the molecular mechanisms of oocyte maturation in *C. elegans*:
an ideal model for studying cell cycle regulation"
Role: Principal Investigator
Agency: HU ADVANCE-IT Grant
Period: June 2013 – December 2013
Total amount awarded: \$14,800

E. Grants Pending Decisions

- i. "New players in physiological germline apoptosis"
Role: Principal Investigator
Agency: NICHD, NIH
Type: R15 (AREA – Academic Research Enhancement Award)
Period: Sept 2019 – August 2022
Total amount awarded: \$388,397

F. Grants in Preparation

- i. Investigating the role of neurons in influencing oocyte quality and fertilization.

Role: Principal Investigator

Agency: National Science Foundation, HBCU, due 03/01/18

Period: January 2019 – December 2021

Total amount requested: TBD

G. Invited Lectures

1. April 2017. University of Iowa, Dept. of Anatomy and Cell Biology, Iowa City, IA (Host: Tina Tootle)
2. January 2017. Georgetown University, Dept. of Biology, Washington, DC (Host: Anne Rosenwald)
3. June 2016. St. Louis University, St. Louis, MO. (Host: Silviya Zustiak)
4. June 2016. Washington University of St. Louis, St. Louis, MO
"Implementing GEP at Howard University"
5. March 2015. Northeastern University, Boston, MA (Host: Erin Cram)
6. March 2015. College of the Holy Cross, Worcester, MA (Host: Michelle Mondoux)
7. December 2014. George Washington University, Dept. of Biological Sciences, Washington, DC (Host: Mollie Manier)
8. May 2014. Howard University College of Medicine, Department of Physiology and Biophysics, Washington, DC (Host: Mark Burke)
9. October 2013. Howard University College of Medicine, Department of Anatomy, Washington, DC (Host: Thomas Heinbockel)
10. October 2013. Catholic University, Department of Biology, Washington, DC (Host: Ann Corsi)
11. September 2012. Uniformed Services University of the Health Sciences (USUHS), Anatomy, Physiology, and Genetics Department, Bethesda, MD (Host: Gregory Mueller)
12. 2008 – present. Annual Presentations, Baltimore/Washington Worm Club

Postdoctoral

1. May 2012. Howard University, Washington, DC (Host: Franklin Ampy)
2. December 2011. East Carolina University, Dept. of Biology, Greenville, NC (Host: David Rudel)
3. November 2011. The College of New Jersey, Dept. of Biology, Ewing, NJ (Host: Sudhir Nayak)
4. November 2011. Bard College, Biology Program, Red Hook, NY (Host: Michael Tibbetts)
5. October 2011. John Carroll University, Dept. of Biology, University Heights, OH (Host: James Lissemore)

H. Conference Platform Presentations

1. July 2017. Gordon Research Conference- Fertilization & Activation of Development. "Novel functions for the RNA-binding protein ETR-1 in *Caenorhabditis elegans* reproduction and physiological germline apoptosis"

2. May 2014. Mid-Atlantic Society for Developmental Biology Meeting. "Role for the inhibitory kinase WEE-1.3 in regulating the meiotic cell cycle and fertility in *C. elegans*"
3. April 2014. Howard University Research Day. "Role for the inhibitory kinase WEE-1.3 in regulating the meiotic cell cycle and fertility in *C. elegans*"

Postdoctoral

1. June 2012. *C. elegans*: Development, Cell Biology, & Gene Expression Meeting. "Role for the inhibitory kinase WEE-1.3 in regulating the meiotic cell cycle and fertility in *C. elegans*"
2. April 2012. 7th Annual NIDDK Fellows' Scientific Retreat. "The birds and the bees: Investigating the role of WEE-1.3 in *C. elegans* oocyte maturation"

Graduate

1. April 2006. 47th Annual *Drosophila* Research Conference. "The SF-1-like nuclear hormone receptor *Hr39* regulates *Drosophila* female reproductive tract development and function"

II. TEACHING

A. Teaching Assignments

Classroom Teaching at Howard University:

SEMESTER	COURSE TITLE (course info.)	STUDENTS ENROLLED (year)	COURSE RESPONSIBILITIES	INNOVATION INTRODUCED
2012 – 2017 (Fall)	Developmental Biology BIOL413 / 713 4cr **713 is writing intensive started 2014**	5 (2012) 6 (2014) 6 (2015) 8 (2016) 8 (2017)	Course Director 24 lectures 4 exams Planned and managed implementation of twice weekly laboratories	<ul style="list-style-type: none"> • inquiry driven labs • online learning and assessments • 2014 - present offered writing intensive version that meets mandatory graduation writing requirement
2013 – 2017 (Fall)	General Biology BIOL101 4cr	~450 (2 sections)	Lecturer 7-8 lectures 1 exam	<ul style="list-style-type: none"> • online Blackboard assessments
2013 – 2016 (Spring) **note had teaching	Genetics BIOL200 4cr	47 (2013, 2 lab sections) 61 (2014, 2 lab sections)	Course Director 24 lectures 4 exams	<ul style="list-style-type: none"> • inquiry driven labs • online learning and assessments • 2015 – developed 30% hybrid course

release Spring 2017**		89 (2015, 4 lab sections) 81 (2016, 4 lab sections)	Planned and managed implementation of weekly laboratories	<ul style="list-style-type: none"> • video lectures to augment learning • active learning during lecture time • 4-week Drosophila GEP course-based research project (CURE)
SEMESTER	COURSE TITLE (course info.)	STUDENTS ENROLLED (year)	COURSE RESPONSIBILITIES	INNOVATION INTRODUCED
2014 (Spring)	Topics in Anatomy & Physiology BIOL501 1cr.	28	Course Director 8 lectures 6 facilitation	<ul style="list-style-type: none"> • online Blackboard assessments and discussion
2015 (Spring)	Topics in Cell and Molecular Biology BIOL500 1cr	2	Facilitator	<ul style="list-style-type: none"> • coordination of students with researchers at Roswell Park Cancer Institute
2015 - 2016 (Spring)	General Biology BIOL102 4cr	~35 (2015, 2 lab sections) ~25 (2016, 2 lab sections)	Instructor (5 lectures/labs in molecular biology)	<ul style="list-style-type: none"> • introduced GEP CURE to Freshman • molecular laboratory techniques to study Phages
2016 (Fall)	Honors Thesis BIOL492 1cr	1	Facilitator	<ul style="list-style-type: none"> • facilitated writing of honors thesis
2016 (Spring)	Directed Readings for Sophomore BIOL218 1cr	16	Course Director	<ul style="list-style-type: none"> • online Blackboard assessments and discussion

Teaching Outside of Howard University (since 2011):

SEMESTER	COURSE TITLE	COURSE RESPONSIBILITIES
2014 – 2018 (Spring)	Eukaryotic Genetics (MCB504) Uniformed Services University of the Health Sciences (USUHS)	Lecturer 1 lecture 3 hours
2011 (Fall)	Genetics in Health & in Disease (HSCI-355) Georgetown University- School of Nursing & Health Studies	Lecturer 1 lecture 3 hours
2011 (Spring)	Developmental Biology (BSCI430) University of Maryland- College Park	Course Director 24 lectures

	4cr	4 exams
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B. Trainees

i. Graduate student trainees

2013 – present	Ruby Boateng	Ph.D. student <i>entered candidacy, Spring 2016</i>
2016 – present	Lourds Michelle Fernando	Ph.D. student
2014 – 2016	Lourds Michelle Fernando	M.S. student <i>defended M.S. thesis, May 2016</i>

ii. Undergraduate student trainees

2017 Summer	Breeann Lansiquot	Summer Research <i>part of the STEP-UP Summer Internship Program from Oakwood University, Huntsville, AL</i>
2017 – present	Lakai Legg	Research
2017 – present	Victoria Nguyen	Research
2017 – present	India Bradley	Honors Research Mentor
2017 – present	Kyrionna Golliday	Honors Research Mentor
2016 – present	Sofiat Atoba	Research
2015 – 2017	Sarah Vaughan	Research
2015 – 2017	Samnuel Ejigu	Honors Research Mentor
2014 – 2016	Kristina Ramirez	Honors Research Mentor
2014 – 2015	Jordan Tapley	Research
2013 – 2014	Temitope Odedokun	Research
2014	Gillian Lee	Research
2013	Cynthia Njafuh	Independent Investigations Mentor
2013	Jumill Williams	Independent Investigations Mentor
2012 – 2013	Bianca Wilson	Honors Research Mentor

iii. High school student trainees

2016 – 2017	Xiu Qi Chen	School Without Walls Senior Project in Science
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C. Trainee Awards

iv. Graduate student trainees

Ruby Boateng		
2017	Just-Julian Graduate Research Assistantship	
2017	HU Graduate Hawthorne Dissertation Award (had to decline to accept Just-Julian Award)	
2016	Genetics Society for America Travel Award to attend The Allied Genetics Conference (TAGC 2016)	
2016	HU Graduate Student Travel Award to attend the 2016 TAGC conference	
2015	FASEB-MARC Travel Award to attend the 2015 20 th International <i>C. elegans</i> Meeting	
2015	Howard University Research Day Award Best Graduate Student Award in Biological and Biomedical Sciences	

2014 Honorable Mention NSF Graduate Research Fellowship

v. Undergraduate student trainees

Kristina Ramirez

2016 Mid-Atlantic Society for Development Poster Award

vi. High school student trainees

Xiu Qi Chen

2016 DC STEM Science Fair – 2nd place category winner

2016 Special Award from Commissioned Officers Association of the US Public Health Service

D. Trainee Invited Talks/Presentations

i. Graduate Student Trainees

1. Talks:

a. Ruby Boateng

05/2017 Mid-Atlantic Society for Developmental Biology
Invited Talk

04/2017 Howard University Research Symposium
Invited Talk

11/2016 Howard University Dept. of Biology Internal Seminar

05/2016 Howard University Research Symposium
Invited Talk

02/2016 Baltimore Worm Club

11/2015 Howard University Dept. of Biology Internal Seminar

04/2014 Howard University Dept. of Biology Internal Seminar

b. Lourds Michelle Fernando

04/2018 Howard University Research Symposium
Invited Talk

02/2017 Howard University Dept. of Biology Internal Seminar

2. Posters:

a. Ruby Boateng

05/2018 Mid-Atlantic Society for Developmental Biology Mtg

04/2018 Howard University Research Symposium

07/2016 The Allied Genetics Conference (TAGC)

05/2016 Mid-Atlantic Society for Developmental Biology Mtg

06/2015 20th International *C. elegans* Conference

04/2015 Howard University Research Symposium

05/2014 Mid-Atlantic Society for Developmental Biology Mtg

04/2014 Howard University Research Day

b. Lourds Michelle Fernando

07/2018 Society for Developmental Biology Meeting

07/2017 Mid-Atlantic Society for Developmental Biology Mtg

04/2017 Howard University Research Day

05/2016 Mid-Atlantic Society for Developmental Biology Mtg

04/2016 Howard University Research Day

ii. Undergraduate Student Trainees

1. Posters

- a. Kristina Ramirez
05/2016 Mid-Atlantic Society for Developmental Biology Mtg

E. Other Contributions to Institutional Programs

i. Thesis Committees

2018	Mohammed Abul Basar	Duttaroy Lab, HU
2018	Tomilowo Abijo	Duttaroy Lab, HU
2015	Dondra Bailey	Duttaroy Lab, HU
2014	Najealicka Armstrong	Duttaroy Lab, HU
2013	Subhas Mukherjee	Duttaroy Lab, HU

ii. Comprehensive Exam Committees

2017	Denver Jn. Baptiste	Ullah Lab, HU
2016	Ahsan Rahman	Ullah Lab, HU
2015	Tomilowo Abijo	Duttaroy Lab, HU
2015	Mohammed Abul Basar	Duttaroy Lab, HU
2013	Dondra Bailey	Duttaroy Lab, HU

- iii. Internal Faculty Advisor to Howard University/Roswell Park Cancer Scholars
Contribution: internal mentor for students throughout their Honors research experience with researchers at the Roswell Park Cancer Institute (RPCI); assist in completion of Honors thesis prior to graduation and submitted to the COAS Honors Program
Students Mentored:

<u>HU Class of</u>	<u>Honors Student</u>
2016	Christian Bradley
2016	Derek Fitzgerald
2016	Victoria Larsen
2016	Brittney Morning
2016	Keyana Simmons
2017	Dometria Gilbert
2017	Destini Goodly
2017	Nicole Kennard
2017	Demi Lewis
2017	Morenike Olu
2018	Diamonds Banks
2018	Laurie Thomas
2019	Chioma Bush
2019	Ngozi Elobuike
2019	Lakai Legg
2019	Tamara Sullivan

III. SERVICE

A. Department of Biology

- 2018 – present Director, Graduate Studies, Department of Biology
direct the Ph.D. and Masters program in the Dept.
- 2014 – present Organizer, Biology Department Internal Seminar Series
****initiated, organize and run biweekly internal seminar series that allows graduate students to present their research to the Department****

2012 – present	Faculty Advisor, Howard University/Roswell Park Cancer Scholars <i>internal advisor for 16 Biology Honors Student</i> <i>coordinate with Roswell Park Cancer Institute mentors</i>
2013 – present	Member, Graduate Student Committee
2014 – present	Member, Biology Honors Committee
2015 – present	Member, Space and Facilities Committee
2016	Speaker, Freshman New Student Orientation
2013 – 2015	Chair, Curriculum Committee <i>contribution = major curriculum revision</i>
2013 – 2014	Member, Space and Facilities Committee,
2013 – 2014	Member, Assessment Committee
2012 – 2014	Member, <i>ad hoc</i> Biology Future Directions Committee
2012	Member, Invertebrate Biology Search Committee Resulted in the hire of Dr. Kenneth Hayes
2012 – present	Advisor, Undergraduate and Graduate Students
2012 – present	Recommendation Letter Writer undergraduates applying for post-graduate graduates applying for post-doctoral positions

B. College of Arts of Science

2017 - present	COAS, Natural Sciences Division, Secretary
2014 – present	COAS, Nominations & Elections Committee
2014	Initiated summer research opportunity with University Iowa
2014	Assisted with Summer Orientation Freshman Registration

C. University

2013 – present	Spinning Disk Confocal Microscope Training Workshops <i>Offered 14 workshops that trained 25 individuals from</i> <i>Departments and Colleges throughout Howard University</i>
2014 – present	Voting Member, Non-Medical Institutional Review Board <i>Meet twice a month throughout the calendar year and</i> <i>review 2-3 protocols per meeting to ensure safety of</i> <i>human research participants.</i>
2017 – present	Officer, Howard University Chapter of Sigma Xi Scientific Research Society
2015 – 2016	Member, Presidential Appointed HU-STEM Initiative <i>Tasked with providing recommendations to “increase</i> <i>student enrollment, retention, degree production, and</i> <i>graduate rate in STEM programs at Howard.”</i>
2015	Member, Howard University College of Engineering, Architecture, and Computer Sciences Dean Search Advisory Committee <i>Resulted in the hire of Dean Achille Messac</i>
2013 – present	Faculty Advisor, DC Public Health Case Competition Team 2013: 3 rd place for team 2014: “Interprofessional Prize” for team 2016: “Practicality Prize” for team
2012 – present	Member, Center for the Integration of Research, Teaching, and Learning (CIRTL) Faculty Board

- 2015 Interview with the French Press regarding importance and state of HBCUs
 Contact: Office of University Communications
 Ms. Rachel Mann
- 2012 – 2014 Provost's Biology Junior Faculty Committee

D. Community

i. Meeting Organizer

- 2016 Co-Organizer of the 2016 Mid-Atlantic Society for Developmental Biology meeting

ii. Grant Review Panels

- 2017 National Science Foundation
 Division of Integrative Organismal Systems (IOS)
 Panel Reviewer, January – April 2017.
- 2016 Limited Submission Reviewer for DoD Grant
 Howard University, Office of Research
- 2015 Limited Submission Reviewer for DoD Grant
 Howard University, Office of Research

iii. Manuscript Review

- 2017 Molecular Reproduction and Development

iv. Textbook Reviews

- 2015 Sanders and Bowman, Genetic Analysis,
 Pearson Publisher, new edition, Ch. 3
- 2013 Griffiths *et al.*, Introduction to Genetic Analysis,
 W.H. Freeman, new edition,
 Chapters 6, 8, 9, and 13, 2013

v. Scientific Conference Judge

(key: PJ = Poster Judge, TJ = Talk Judge, SFJ = Science Fair Judge)

- 2018 PJ, 2018 Mid-Atlantic Society for Developmental Biology
- 2018 TJ, Howard University Research Symposium
- 2017 PJ, 21st International *C. elegans* meeting
- 2017 PJ, 2017 Mid-Atlantic Society for Developmental Biology
- 2016 PJ, 75th Society for Developmental Biology
- 2016 TJ, Howard University Research Symposium
- 2015 PJ, 20th International *C. elegans* meeting
- 2015 PJ, Howard University Research Symposium
- 2015 SFJ, Middle School of Mathematics and Science (MS²)
- 2014 PJ, 73rd Society for Developmental Biology
- 2014 SFJ, Middle School of Mathematics and Science (MS²)
- 2013 SFJ, Middle School of Mathematics and Science (MS²)
- 2011, 2012 SFJ, NIH Postbaccalaureate Poster Day

vi. Abstract Review

- 2014, 2015 American Society for Cell Biology, Abstract Program Committee
- 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS)

vii. Professional Society Memberships

- Current - Genetics Society of America (GSA, 2003 – present)

Society for Developmental Biology (SDB, 2013 – present)
 National Science Teachers Association (2011 – present)
 Sigma Xi Scientific Research Society (2016 - present)
 Past – American Society for Cell Biology (ASCB, 2012 – 2015)

viii. Other

2017 Sigma Xi Scientific Research Society, Nominations & Banquet Committee
 2013 – 17 Howard Univ. Early Learning Program Scientific Outreach
designed and ran bi-yearly science experiments with 3-6 year old students enrolled in HU Early Learning Program
 2015 Franconia Elementary School Family Science Night
 Scientific Outreach
head of science experiment table on concept of lift
 2015 - 17 Organized annual graduate recruiting event by Johns Hopkins University Department of Biology Graduate Program at Howard University
 contact = Ms. Joan Miller, JHU

IV. PROFESSIONAL DEVELOPMENT

2018 CURE Institute, Hampton University, February 8-10
 CUREnet (Course-based Undergraduate Research Experience)
 2017 CITI: Biomedical Responsible Conduct of Research Training
 Collaborative Institutional Training Initiative (CITI) Program
 2017 Leadership Developmental Seminar: Achieving Academic Resilience
 HU ADVANCE-IT Professional Developmental Seminar
 2017 CETLA CA06: Building a Digital Portfolio
 2016 Howard University Interpersonal Violence Prevention Program
 2016 Strategies for Enhancing STEM Instruction in Higher Education Settings
 Online Webinars, Part 1 and 2
 Capstone Institute at Howard University
 2016 Genomics Education Partnership (GEP) alumni workshop
 Organizer: Dr. Sarah Elgin and Genomics Education Partnership
 Washington University in St. Louis
 2016 CITI: Good Clinical Practice for Clinical Trials with Investigational Drugs
 and Medical Devices
 Collaborative Institutional Training Initiative (CITI) Program
 2016 Leadership Developmental Seminar: Building Leadership & Legacy
 HU ADVANCE-IT Professional Developmental Seminar
 2016 COAS Degree Works Training Session
 2016 Getting Started with Blackboard Collaborate (BB03, CETLA, HU)
 2016 Evaluation Planning for Principal Investigators and Grant Seekers
 Office of Research Development Seminar
 2016 CITI: Biomedical, Refresher Course (valid 03/01/16 – 03/01/2018)
 Collaborative Institutional Training Initiative (CITI) Program
 2015 Howard University Junior Faculty Forums
 Dec.- Putting together the teaching portfolio of your application
 Nov.- Successfully managing your several lives as scholar & teacher
 Oct.- Tenure and Promotion
 2015 Scientific Writing Retreat

- 2015 HU ADVANCE-IT Professional Developmental
Unconscious Bias and Title VII Training
HU ADVANCE-IT Professional Developmental
- 2015 Peoplesoft Requestor Training
Office of Procurement and Contracting, Howard University
- 2015 PRIM&R's Ethical Research Oversight Course (E-Roc)
- 2015 CETLA SR05 & SR06: Epson 1410wi Certification (CETLA, HU)
- 2015 Polling with Poll Everywhere (PE01, CETLA, HU)
- 2015 Genomics Education Partnership: New Faculty Workshop (January 4-9)
Organizer: Dr. Sarah Elgin and Genomics Education Partnership
Washington University in St. Louis
- 2014 Society for Developmental Biology 5th Boot Camp for New Faculty
- 2014 ASCB FRED Career/Mentoring Development Workshop
- 2014 HU-TEACH Pilot Program (CETLA, HU)
- 2014 Designing Syllabi (ID01, CETLA, HU)
- 2014 Course Redesign Seminar (CRSI, CETLA, HU)
- 2014 Blackboard Certification (CETLA, HU)
- 2014 HU Office of University Communications (OUC) Media Training
- 2014 Collecting Assignments (BB04, CETLA, HU)
- 2014 Making Teamwork Work (BB05, CETLA, HU)
- 2014 Creating Tests and Surveys (BB06, CETLA, HU)
- 2013 Maintaining an Online Gradebook (BB07, CETLA, HU)
- 2013 Videotaping Your Lectures (VT01, CETLA, HU)
- 2013 Building Blackboard Courses (BB01, CETLA, HU)
- 2013 Writing Across the Curriculum (WAC) Workshop (WCSI, CETLA, HU)
Instructor: Dr. Teresa Redd
- 2013 Genome Solver Workshop
J. Craig Venter Institute/Georgetown University
Instructors: Dr. Anne Rosenwald (GU)
Ramana Madupu (JCVI)
- 2013 NSF Grants Conference (Arlington, VA)
- 2012 Grant Writing Workshop (HU Graduate School)
Instructor: Mr. David Bauer
- 2011 TRAC37: Real Time & Quantitative PCR
Foundation for Advanced Education in the Sciences/BioTrac
Instructor: Dr. David A. Kulesh
- 2010 – 2011 Scientists Teaching Science Course
National Institutes of Health
Instructor: Barbara Houtz
Director of Outreach, Pennsylvania State University
- 2010 Introduction to Grant Writing (3 week course)
NIH NIDDK Office of Fellow Recruitment & Career Development
Instructor: Louis Simchowicz, M.D., M.B.A.

V. REFERENCES

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