

Anthony C. May, MS

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Department of Oral Biology
Rutgers School of Dental Medicine
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Current Position

Rutgers School of Dental Medicine, Newark NJ (Aug 2015-Present)

Research Teaching Specialist

Education

Drexel University College of Medicine, Philadelphia, PA (2015)

Master of Science in Molecular Medicine

Research Manuscript: Characterizing the methylome of *Haemophilus influenzae*

Advisor: Joshua Chang Mell, PhD.

Temple University, Philadelphia, PA (2013)

Bachelor of Science in Biochemistry

Bachelor of Arts in Africology and African American Studies (Dual Major)

Boston University Center for Professional Education, Boston, MA (2017)

Certificate in Genealogical Research (Online)

Research/Clinical Experience

Rutgers School of Dental Medicine, Department of Oral Biology, Newark, NJ (Aug 2015-Present)

Research Teaching Specialist

Characterize the molecular mechanisms and regulon for complemented mediated serum resistance of the oral microbiome associated pathobiont, *Aggregatibacter actinomycetemcomitans*. Published the first complete genomic sequence for a widely used clinical model. Discovered a possible role of a stress-response regulator, cpxR in phenotypic switching, which may affect biofilm formation, surface attachment and pathogenesis.

Drexel University Center for Genomic Science, Philadelphia, PA (May 2014-May 2015)

Research Intern

Studied the role of epigenetic modifications on gene expression, growth rate, and morphology in a clinically derived strain of *Haemophilus influenzae*. Used novel Small Molecule Real Time (SMRT) sequencing technology to determine cognate methyltransferase recognition sites for enzymes found in Restriction-Modification (R-M) systems. Discovered an interaction between phase variable R-M system and a genomic prophage. Presented research findings in school-wide poster session, and prepared manuscript reviewed by a committee of faculty.

Wills Eye Hospital, Philadelphia, PA (Sep 2013-Jul 2015)

Clinical Research Assistant

Led a research collaboration with the Jefferson University Hospital urology department surveying and compiling clinical data for men with diabetes and Erectile Dysfunction about adherence to eye care recommendations. Screened patients, managed a database, and observed testing for a Phase I clinical trial of a Trans Corneal Electrical Stimulation device to treat Non-arteritic Anterior Ischemic Optic Neuropathy (NAION), optic trauma, and Multiple Sclerosis (MS). Interviewed patients about complications, follow up care and surgical intervention after trauma induced canalicular lacerations. Scheduled follow up appointments and reviewed patient charts for patients recruited through a mobile community outreach program.

East Orange Department of Health & Human Services, East Orange, NJ (Jun 2013-Aug 2013)

Health Outreach Intern

Shadowed epidemiologist and health inspectors in the investigation of city properties and resident medical history. Answered calls, organized medical records, and prepared workshop materials for the HIV testing division.

Temple University Department of Psychology, Philadelphia, PA (Feb 2012-May 2012)

Research Assistant

Prepared data from essays written by students in an entry-level Psychology course for software analysis in a cognitive psychology research project, "The Effects of Freewriting on the Quality and Characteristics of Short Essays," for dissertation research by then doctoral student, Shaleigh Kwok, PhD. Research findings correlated Freewriting with longer essays, a higher use of "present-tense" words and lower overall course grades.

Tutoring/Mentoring

Wyzant, Inc., New York Metro Area (Sep 2016-Present)

Math and Science Tutor

Provided tutoring services for high school and university STEM students in Biology, Biochemistry, General and Organic Chemistry, Algebra and Geometry.

Philadelphia Youth Action, Inc., Philadelphia, PA (Mar 2012-May 2013)

Volunteer

Mentored a group of Urban high school youth in their preparation for application to Universities. Designed and presented workshops related to community service and professional development of high school students. Planned and organized community service events. Participated in fundraising campaigns with local corporations.

The Russell Conwell Center at Temple University, Philadelphia, PA (Jun 2012 – May 2013)

Academic Coach

Chosen as part of a cohort of students to develop incoming college freshmen through the AmeriCorps Community Fellows sponsored program. Mentored 17 students in bi-weekly one-on-one meetings to discuss their transition from high school and acclimation to college. Provided tutoring and educational support for students in Liberal Arts and Science courses.

Temple University Housing and Residential Life, Philadelphia, PA (Aug 2010– May 2013)
Resident Assistant

Chosen from a group of over 300 applicants to lead a floor of over 120 college freshmen and upperclassmen. Designed, advertised, and presented regular programming on academic success, cross cultural experience, personal health, and community development. Completed 24 hour “on call” shifts to handle building affairs and emergencies. Accompanied students to the emergency department during medical crises.

Presentations/Publications

Manuscripts and Posters

May, AC, Ohta H, Maeda H, Kokeyuchi S, Cugini C. (2017) Draft genome sequences of *Aggregatibacter actinomycetemcomitans* strains 310a and 310b. *Genome Announc* 5 (47): e01282-17. doi: 10.1128/genomeA.01282.17.

May AC, Ehrlich RL, Balashov S, Ehrlich GD, Shanmugam M, Fine DH, Ramasubbu N, Mell JC, Cugini C. (2016) Complete genome sequence of *Aggregatibacter actinomycetemcomitans* strain IDH781. *Genome Announc* 4(6): e01285-16. doi:10.1128/genomeA.01285-16.

May, A. (2015) Characterizing the methylome of *Haemophilus influenzae*. Submitted to satisfy requirements for the Master of Science in Molecular Medicine, Drexel University College of Medicine, Department of Microbiology and Immunology. Advisor: Joshua Chang Mell, PhD.

May, A.¹, Nelson K.², Smith A², Balashov S¹, Ehrlich G¹, Mell J.¹ (2014) Assessing the role of DNA methylases in a Knockout mutant collection of *Haemophilus influenzae*.¹Department of Microbiology and Immunology Center for Genomic Science, Drexel University College of Medicine, Philadelphia, PA ²Center for Childhood Infections and Prematurity Research, Seattle Children’s Hospital, Seattle, WA. Drexel University College of Medicine. Poster Presentation, Discovery 2014, Philadelphia, PA.

Presentations

“It’s Elementary My Dear Watson: Solving Mysteries with Genetic Genealogy.” 26 Jan 2018. New Jersey State Library. Trenton, NJ

<http://www.njstatelib.org/event/elementary-dear-watson-solving-mysteries-genetic-genealogy/>

“The Intersection of Genetics and Genealogy” Presentation on human genetics and its use in family history research. 19 Oct 2017. Jewish Genealogical Society of New Jersey. Highland Park, NJ.

“The Intersection of Genetics and Genealogy” Presentation on human genetics and its use in family history research. 15 Oct 2017. Hickory Corner Library. East Windsor, NJ.

“The Intersection of Genetics and Genealogy” Presentation on human genetics and its use in family history research. 08 Jun 2017. Jewish Historical Society of Central Jersey. Highland Park, NJ.

“The Intersection of Genetics and Genealogy” Presentation on human genetics and its use in family history research. 21 May 2017. Beth-El Synagogue Jewish Genealogy Club. East Windsor, NJ
<https://www.bethel.net/wp-content/uploads/2016/12/Anthony-May-Flyer-May.pdf>

Media Coverage

Featured in a local news series on Washington D.C.'s CBS syndicate, WUSA9, for genetic genealogy research done to facilitate the reunion of a 29-year old man with his unknown biological father.

“Son to meet father for the first time after 2-year search” (12 Oct 2016)

<http://www.wusa9.com/news/local/son-to-meet-father-for-the-first-time-after-2-year-search/334926331>

“After 2-year search, man finally gets to meet his father” (04 Nov 2016)

<http://www.wusa9.com/news/local/after-2-year-search-man-finally-gets-to-meet-his-father/348054802>