

David A. Galambos

PERSONAL DATA

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EDUCATION

Expected JUNE 2020 Bachelor of Arts in BIOLOGY, **Carleton College**, Northfield, MN
GPA: 3.895/4.0
Minor: Biochemistry

RESEARCH EXPERIENCE

<i>Current</i> JAN. 2019	MITRA LAB, Carleton College, Northfield, MN <i>Research Assistant</i> The Mitra Lab studies how the effectors of <i>R. solanacearum</i> cause bacterial wilt disease. We do this by screening for interactions between these effectors and tomato host proteins using yeast 2-hybrid assays and microscopy of GFP-tagged constructs. Based on a preliminary yeast 2-hybrid screen that identified several potential targets of these effectors in tomato plants, I cloned these targets into the GATEWAY system so that we would be able to replicate the yeast 2-hybrid and tag them with GFP for microscopy.
MARCH 2018- OCT. 2018	CALDERONE LAB, Carleton College, Northfield, MN <i>Research Assistant</i> The Calderone Lab investigates the biosynthetic mechanism of the nonribosomal peptide AMB. We expressed and purified a mutated construct of the nonribosomal peptide synthetase AmbE, which is one of the proteins in the <i>amb</i> gene cluster for AMB synthesis. We tested several different enzyme/reagent combinations that included other enzymes from the cluster and analyzed the products using HPLC.
<i>Current</i> SEPT. 2017	ANDERSON LAB, Carleton College, Northfield, MN <i>Research Assistant</i> The Anderson Lab studies microbial ecology at deep-sea hydrothermal vents. Based on existing metagenomic and metatranscriptomic data from the Mid-Cayman Rise, we conducted a study of metabolic capabilities in bacteria and archaea. We combined data describing whole vent sites with data for individual genomes recovered at those sites to provide a more complete picture of both community and genome-level metabolic dynamics.

WORK EXPERIENCE

<i>Current</i> SEPT. 2017	ACADEMIC SUPPORT CENTER, Carleton College <i>Writing Assistant</i> Provide individualized one-on-one writing consultations for a first-year seminar of 14 students. Prepare consultation material and advice consistent with professor's expectations and teaching style. Offer weekly appointments to general student population.
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MARCH 2019- JUNE 2019	<p>ACADEMIC SUPPORT CENTER, Carleton College <i>Prefect, BIOL126</i></p> <p>Lead twice-weekly sessions for a class of 70 students to review lecture material and prepare for exams. Developed practice problems and answer keys for every session. Tutored individual students in weekly one-on-one sessions.</p>
SEPT. 2018	<p>DEPARTMENT OF COMPUTER SCIENCE, Carleton College <i>Computational Biology Workshop Assistant</i></p> <p>Beta-tested hands-on modules for the Undergraduate Computational Biology Workshop at Carleton College. Assisted in workshop set-up and logistical operation.</p>
MARCH 2018- JUNE 2018	<p>DEPARTMENT OF CHEMISTRY, Carleton College <i>Organic Chemistry Tutor</i></p> <p>Facilitated problem set help sessions (2x/week). Guided students in developing effective exam study strategies. Assessed patterns in student questions to report common conceptual misunderstandings to faculty.</p>
JAN. 2018- MARCH 2018	<p>DEPARTMENT OF BIOLOGY, Carleton College <i>Lab Teaching Assistant, BIOL125</i></p> <p>Assisted with setup and maintenance of lab materials and equipment. Answered student questions about lab procedures and associated biological concepts. Graded and provided feedback for notebooks, quizzes and post-laboratory assignments.</p>

PRESENTATIONS

Galambos DA, Calderone CC. "Biosynthetic mechanism of the nonribosomal peptide AMB in *Pseudomonas aeruginosa*." AMERICAN SOCIETY OF BIOCHEMISTRY AND MOLECULAR BIOLOGY (ASBMB) ANNUAL MEETING, April 6-9, **2019**; Orlando, FL.

Galambos DA, Reveillaud J, Anderson RE, Huber JA. "Archaeal Metabolic Profiles at Deep-sea Hydrothermal Vents in the Mid-Cayman Rise." 2017 AMERICAN GEOPHYSICAL UNION (AGU) FALL MEETING, December 11-15, **2017**; New Orleans, LA.

Lauriello AF, **Galambos DA**, Greengo SD, Kennicott HR. "Obesity-Induced T-cell Polarization in Pancreatic Cancer Leads to Immunosuppression and Reduces the Efficacy of Immunotherapy." 2017 MAYO CLINIC IMPACT SYMPOSIUM, March 18, **2017**; Rochester, MN.

AWARDS

ASBMB UNDERGRADUATE STUDENT TRAVEL AWARD (2019)
Carleton College DEAN'S LIST (2017) – *Top 10% of class*
NATIONAL MERIT SCHOLAR (2016)

LANGUAGES

FRENCH (proficient), RUSSIAN (native), HUNGARIAN (native)