

Gordon Luu

1326 W. 19th St. Apt. 2FF
Chicago, IL, 60608
gluu2@uic.edu
(415) 859-0841

Education

University of Illinois at Chicago Graduate Student in Pharmacognosy Advisor: Dr. Laura Sanchez	Aug 2018 - Present
San Francisco State University Bachelor of Science in Microbiology Minor in Chemistry Graduated <i>cum laude</i>	Aug 2013 - May 2018

Research Experience

Graduate Student Researcher University of Illinois at Chicago	Mar 2019 - Present
<ul style="list-style-type: none">The goal of my thesis work is to analyze the secondary metabolites facilitating complex community interactions derived from the cheese rind microbiome using mass spectrometry-based untargeted metabolomics. The overall goal of the project is two-fold 1) to determine their ecological roles, and 2) identify potential dietary health benefits.	
Undergraduate Research Assistant San Francisco State University Advisor: Dr. Taro Amagata	Apr 2016 - Jul 2018
<ul style="list-style-type: none">I generated and screened a chemical extract library from Actinomycetes to prioritize strains producing unknown cytotoxic secondary metabolites requiring isolation and structure elucidation for discovery of novel anti-cancer therapeutics.	

Awards

University of Illinois at Chicago Northeastern University May Institute Travel Fellowship	May 2019
San Francisco State University SFSU COSE 20 th Annual Student Showcase Poster Section UL 3 rd Place	May 2018

Publications

- Cleary, J.L., **Luu, G.T.**, Pierce, E.C., Dutton, R.J., Sanchez, L.M. (2019). BLANKA: an Algorithm for Blank Subtraction in Mass Spectrometry of Complex Biological Samples. *Journal of The American Society for Mass Spectrometry*. 30(8): 1426-1434. doi:10.1007/s13361-019-02185-8.
- Grim, C.M.*, **Luu, G.T.***, Sanchez, L.M. (2019). Staring into the void: demystifying microbial metabolomics. *FEMS Microbiology Letters*. 366(11): pii:fnz135. doi:10.1093/femsle/fnz135.

3. Spraker, J.E., **Luu, G.T.**, Sanchez, L.M. (2019). Imaging mass spectrometry for natural products discovery: a review of ionization methods. *Natural Product Reports*. epub ahead of print. doi:10.1039/c9np00038k.
4. Caudill, V.R., Qin, S., Winstead, R., Kaur, J., Tisthammer, K., Pineda, E.G., Carja, O., Eggo, R.M., Koelle, K., Lythgoe, K., Roy, S., Allen, N., Aviles, M., Baker, B.A., Bauer, W., Bermudez, S., Carlson, C., Catalan, F.L., Chemel, A.K., Evans, D., Fiutek, N., Fryer, E., Goodfellow, S.M., Hecht, M., Hopp, K., Hopson Jr., E., Jaber, A., Kinney, C., Lao, D., Le, A., Lo, J., Lopez, A.G., Lopez, A., Lorenzo, F.G., **Luu, G.T.**, Mahoney, A., Melton, R.L., Nascimento, G.D., Pradhananga, A., Rodrigues, N.S., Shieh, A., Singh, R., Sulaeman, H., Thu, R., Tran, K., Tran, L., Winters, E.J., Wong, A., Pennings, P.S. (2020). CpG-creating Mutations are Costly in Many Human Viruses. *Evolutionary Ecology*. Accepted.
5. **Luu, G.T.***, Condren, A.R.*, Kahl, L., Dietrich, L., Sanchez, L.M. (2020). Evaluation of data analysis platforms and compatibility with MALDI-TOF imaging mass spectrometry data sets. *Journal of The American Society for Mass Spectrometry*. Submitted

* indicates co-first authorship

Oral Presentations

1. **Luu, G.T.** and Amagata, T. Discovery of Novel Cytotoxic Secondary Metabolites in Actinomycetes Through Analysis of Biosynthetic Gene Clusters. UC Berkeley 19th Annual Microbiology Student Symposium. Berkeley, CA. April 2018.
2. **Luu, G.T.** and Sanchez, L.M. Cheese-Rind Microbes: Untargeted metabolomics of complex biological systems. UIC Small Metabolite Community. Chicago, IL. February 2019.

Posters

1. **Luu, G.T.***, Bray, W.M., Lokey, R.S., Valeriote, F.A., Amagata, T. A New Cytotoxic Furaquinocin Isolated from the Marine-Derived Streptomyces sp. CP53-67. Poster at CSUPERB 2018. Santa Clara, CA, January 2018.
2. **Luu, G.T.*** and Amagata, T. Discovery of Novel Cytotoxic Secondary Metabolites in Actinomycetes Through Analysis of Biosynthetic Gene Clusters. Poster at UC Berkeley 19th Annual Microbiology Student Symposium. Berkeley, CA. April 2018.
3. **Luu, G.T.***, Bray, W.M., Lokey, R.S., Amagata, T. Discovery of Novel Secondary Metabolites from Streptomyces sp. CP26-58. Poster at SFSU COSE 20th Annual Student Showcase. San Francisco, CA. May 2018.
4. **Luu, G.T.***, Grim, C.M.*, Zink, K., Burdette, J., Sanchez, L.M. Investigation of the metabolites in ovarian cancer using imaging mass spectrometry. Poster at Chicago Mass Spec Day. Chicago, IL. July 2019

* indicates presenter(s)

Teaching Experience

PHAR 504 Teaching Assistant

Aug 2019 - Dec 2019

University of Illinois at Chicago College of Pharmacy

- Pathophysiology, Drug Action, and Therapeutics (PDAT) 5: Immunology/Respiratory

PHAR 505 Teaching Assistant Jan 2019 – May 2019
University of Illinois at Chicago College of Pharmacy

- Pathophysiology, Drug Action, and Therapeutics (PDAT) 5: Cardiovascular

PHAR 503 Teaching Assistant Aug 2018 – Dec 2018
University of Illinois at Chicago College of Pharmacy

- Pathophysiology, Drug Action, and Therapeutics (PDAT) 3: Renal, Electrolytes, and Nutrition

Supplemental Instruction Facilitator Aug 2016 – May 2018
San Francisco State University College of Science and Engineering

- Facilitator for supplemental instruction classes in Calculus II and General Chemistry I

CHEM 335 Teaching Assistant Aug 2017 – Dec 2017
San Francisco State University College of Science and Engineering

- Organic Chemistry II

Outreach Activities

NSF Cheese Outreach Module Sep 2018 – Oct 2018

- Set of three workshops for the education of elementary school aged students from underserved communities on microbial communities using the cheese microbiome as a model system for fermented foods.