

Emails: abrown33@usfca.edu**A. Summary**

I am an Adjunct Professor in the Department of Chemistry at the University of San Francisco. From Nov 2019 to Mar 2022, I was a postdoctoral scholar in drug discovery in the Mochly-Rosen laboratory at Stanford University, where I designed small molecule activators for enzymopathies. I earned my PhD in 2019 from the University of British Columbia, developing two chemical methods to create pharmaceutically relevant small molecules using N-silylated amines as synthons (supervisors: David Grierson, Laurel Schafer).

B. Education

Institution and Location	Degree	Start Date MM/YYYY	Completion Date MM/YYYY	Field of Study
National and Kapodistrian University of Athens, Athens, GR	BSc	09/2006	07/2011	Pharmaceutical Sciences
National and Kapodistrian University of Athens, Athens, GR	MSc	11/2011	07/2013	Pharmaceutical Chemistry
The University of British Columbia, Vancouver, CA	PhD	09/2013	05/2019	Pharmaceutical Sciences

C. Employment

Institution and Location	Position	Start Date MM/YYYY	Completion Date MM/YYYY
Stanford University, Stanford, USA	Postdoctoral Scholar	11/2019	03/2022
Stanford University, Stanford, USA	Affiliate	10/2023	03/2026
University of San Francisco, USA	Adjunct Professor	01/2025	present

D. Contributions to Science: Publications & Conferences**1. Publications*****Master of Science***

- Ana Koperniku, Ioannis Papanastasiou, George B. Foscolos, Andrew Tsotinis, Martin C. Taylor and John M. Kelly, Synthesis and Trypanocidal Action of New Adamantane Substituted Imidazolines, *Med. Chem. Commun.*, **2013**, 4, 856 (Concise Article)
- Ana Koperniku, Angeliki-Sofia Foscolos, Ioannis Papanastasiou, George B. Foscolos, Andrew Tsotinis and Dominique Schols, 4-(1-Adamantyl)phenylalkylamines with Potential Antiproliferative Activity, *Lett. Org. Chem.*, **2016**, 13(3), 171 (Article)

Doctor of Philosophy

- Ana Koperniku, Hongiang Liu and Paul B. Hurley, Mono- and Difluorination of Benzylic Carbon Atoms, *Eur. J. Org. Chem.*, **2016**, 5, 871 (Microreview)
- Ana Koperniku, Maryam Zamiri and David S. Grierson, The Reaction of N-Trimethylsilyl Substituted Heteroarylamines with Thio- and Oxoesters: An Efficient Protocol to Access Diheteroarylamides, *Synthesis*, **2019**, 51, 1779 (Full Paper)
- Ana Koperniku, Paul J. Foth, Glenn M. Sammis and Laurel L. Schafer, Zirconium Hydroaminoalkylation. An Alternative Disconnection for the Catalytic Synthesis of α -Arylated Primary Amines, *J. Am. Chem. Soc.*, **2019**, 141, 18944 (Communication)
- Ana Koperniku and Laurel L. Schafer, Zirconium Catalyzed Hydroaminoalkylation for the Synthesis of α -Arylated Amines and N-Heterocycles, *Chem. Eur. J.*, **2021**, 27, 6334 (Full Paper)
- Vani Verma, Ana Koperniku, Peter M. Edwards, Laurel L. Schafer, N-Silylamines in Catalysis: Synthesis and Reactivity, *ChemCommun*, 2022, 58, 9174 (Article)

Postdoctoral Studies

- Ana Koperniku, A Series of Selective Events, *Nat. Rev. Chem.*, **2021**, 5, 674 (Year in Review)
- Adriana A. Garcia, Ana Koperniku, Julio C.B. Ferreira and Daria Mochly-Rosen, Treatment Strategies for Glucose-6-phosphate Dehydrogenase Deficiency: Past and Future Perspectives, *Trends Pharmacol. Sci.*, **2021**, 42, 829 (Review Article)
- Carrie J. Chen, Anna F. Hudson, Allison S. Jia, Caitlin R. Kunchur, Andrew J. Song, Edward Tran, Chris J. Fisher, Davide Zanchi, Lucia Lee, Stephen Kargotich, Mary Romeo, Ana Koperniku, Ravinder D. Pamnani and Daria Mochly-Rosen, Affordable IgY-based Antiviral Prophylaxis for Resource-Limited Settings to Address Epidemic and Pandemic Risks, *J. Glob. Health*, **2022**, 12, 05009 (Article)
- Ana Koperniku, Adriana A. Garcia, and Daria Mochly-Rosen, Boosting Discovery of Small Molecule G6PD Inhibitors for the Treatment of Cancer, Infectious Diseases, and Inflammation, *J. Med. Chem.*, **2022**, 65, 4403 (Perspective)

Affiliate at Stanford University

- Ana Koperniku and Nicholas A. Meanwell, Tying the Knot with Lysine, *Nat. Rev. Chem.*, **2024**, 8, 235 (Year in Review)

Adjunct Professor at University of San Francisco

- Konstantina Stavropoulou, Angeliki Kaimaki, Maria Nikolaou, Ana K. Brown, Andrew Tsotinis, Martic C. Taylor, John M. Kelly and Ioannis P. Papanastasiou, New Trypanosoma brucei acting derivatives incorporating 1-(4-phenyl)adamantane and 1-(4-phenoxyphenyl)adamantane, *RSC Med. Chem.*, **2025**, 16, 2441

2. Conferences (Selected presentations)

26-29 Jun 2016	Oral Presentation; <u>Ana Koperniku</u> and David S. Grierson, 69 th Northwest Regional Meeting of the American Chemical Society (ACS), Anchorage, Alaska, USA
27-30 Oct 2017	Oral Presentation; <u>Ana Koperniku</u> , Sorin-C. Rosca and Laurel L. Schafer, 8 th Banff Symposium on Organic Chemistry (BSOC), Banff, Alberta, CA
27-31 May 2018	Oral Presentation; <u>Ana Koperniku</u> , Sorin-C. Rosca and Laurel L. Schafer, 101 st Canadian Chemistry Conference and Exhibition (CCCE), Edmonton, Alberta, CA
17-22 Jun 2018	Poster Presentation; <u>Ana Koperniku</u> and Laurel L. Schafer, 55 th Gordon Research Conference on Heterocyclic Compounds (GRC), Newport, Rhode Island, USA
23 Jul 2022	Oral Presentation, <u>Ana Koperniku</u> , Merck Innovation Cup Alumni Symposium 2022, Lufthansa Training Center Seeheim, Germany & Online

E. Positions and Honors

Leadership Positions

2017	<u>President</u> , Pharmaceutical Graduate Student Society, Pharmaceutical Sciences, UBC
2025	<u>Faculty Co-advisor for Narcare</u> , USF
2026	<u>Pharmaceutical Sciences Alumni Ambassador</u> , UBC

Committees Positions

2017	<u>Committee Member</u> for the Development of the Bachelor of Pharmaceutical Sciences; Assigned Field: Curriculum Development for Medicinal Chemistry, UBC
2017-2018	<u>Committee Member</u> for Faculty Recruitment in Pharmaceutics/Pharmaceutical Chemistry (Student Representative), Faculty of Pharmaceutical Sciences, UBC
2018	<u>President's Advisory Committee Member</u> for Term Extension of the Dean of the Faculty of Pharmaceutical Sciences (Student Representative), UBC
2026	<u>Organizing Committee Member</u> for Curious 2027—Future Insight

Awards and Fellowships

2013-2015	NSERC CREATE Sustainable Synthesis Fellowship (~18,000 \$ annually)
2016-2018	UBC Four Year Doctoral Fellowship (~18,000 \$ annually)
2015-2018	UBC Pharmaceutical Sciences Outstanding Service and Teaching Assistantship Award
2021	Merck Innovation Cup; Runner-Up Prize

Certificate(s)

2016	UBC Instructional Skills Workshop
------	-----------------------------------

F. Additional Information: Research Support and/or Scholastic Performance

March 2020	Schrödinger Online Course: Introduction to Molecular Modeling in Drug Discovery	82/100
May 2025	University of San Francisco: Python for Data Analysis	Completed
June 2025	EMBL-EBI Training: AlphaFold, A Practical Guide	Completed