

University of California, San Francisco

CURRICULUM VITAE

Name: Danica Galonić Fujimori, Ph.D.

Position: Assistant Professor
Cellular & Molecular Pharmacology, UCSF School of Medicine
Pharmaceutical Chemistry, UCSF School of Pharmacy

Address: Box 2280, Genentech Hall
600 16th Street, N572E
University of California, San Francisco
San Francisco, CA 94158
phone: 415-514-0147
email: danica.fujimori@ucsf.edu

EDUCATION

1995 - 2000	University of Belgrade, Serbia	B.Sc.	Chemistry
2000 - 2005	University of Illinois, Urbana-Champaign (David Y. Gin and Wilfred A. van der Donk)	Ph.D.	Chemistry
2005 - 2008	Harvard Medical School (Christopher T. Walsh)	Postdoctoral	Biochemistry

PRINCIPAL POSITIONS HELD

2008 - present University of California, San Francisco Assistant Professor Medicine/Pharmacy

OTHER POSITIONS HELD CONCURRENTLY

2008 - present	Chemistry and Chemical Biology Graduate Program	Faculty
2008 - present	Tetrad Graduate Program	Faculty
2008 - present	Integrative Program in Quantitative Biology	Faculty
2013 - present	UCSF Cancer Center	Associate Member

HONORS AND AWARDS

2000	Serbian Chemical Society Outstanding Undergraduate Student Award	Serbian Chemical Society
2001	University of Illinois Teachers Rated as Excellent	University of Illinois
2001	University of Illinois Lycan Predoctoral Fellowship	University of Illinois
2002	University of Illinois Perel Predoctoral Fellowship	University of Illinois
2003	University of Illinois Fuson Award	University of Illinois
2003	University of Illinois Outstanding Research Presentation Award	University of Illinois
2003	Procter & Gamble Predoctoral Fellowship	Procter & Gamble
2004	University of Illinois Pines Predoctoral Fellowship	University of Illinois
2005	Damon Runyon Cancer Research Foundation Postdoctoral Fellowship	Damon Runyon Cancer Research Foundation
2007	NIH Pathway to Independence Award	National Institutes of Health

2008	Sandler Program in Basic Sciences Opportunity Award	University of California, San Francisco
2009	REAC Pilot Research Award	University of California, San Francisco
2009	Sandler Integrative Research Award	University of California, San Francisco
2009	UCSF Cancer Center American Cancer Society Individual Research Award	University of California, San Francisco
2009	Kimmel Scholar Award	Sidney Kimmel Foundation for Cancer Research
2010	Hellman Family Early-Career Faculty Award	Hellman Family Foundation
2010	V Foundation Scholar Award	V Foundation
2011	Basil O'Connor Starter Scholar Research Award	March of Dimes
2011	NSF Career Award	National Science Foundation
2011	Searle Scholar Award	Kinship Foundation

KEYWORDS/AREAS OF INTEREST

Histone demethylases, chromatin, epigenetics, cancer, radical SAM enzymes, antibiotic resistance, RNA methylations, endoplasmic reticulum-associated degradation, glycoproteins

PROFESSIONAL ACTIVITIES

INVITED PRESENTATIONS

INTERNATIONAL

2013	Ludwig Maximilian University, Department of Chemistry, Munich, Germany	Invited Speaker
2013	Transatlantic Frontiers of Chemistry, Kloster Seeon, Germany	Invited Speaker & Co-Chair
2014	Canadian Chemistry Conference and Exhibition, Vancouver, Canada (upcoming)	Invited Speaker

NATIONAL

2003	American Chemical Society National Meeting, New York, NY	Speaker
2007	American Chemical Society National Meeting, Boston, MA	Invited speaker
2008	American Chemical Society National Meeting, New Orleans, LA	Invited speaker
2010	American Chemical Society National Meeting, Symposium in Honor of Tom Muir, San Francisco, CA	Invited speaker
2011	Enzyme Mechanisms Conference, St. Pete Beach, FL	Invited speaker
2011	American Chemical Society National Meeting, ACS Chemical Biology Symposium in Honor of Stuart Schreiber, Anaheim, CA	Invited speaker
2012	American Chemical Society National Meeting, Symposium in Memory of David Gin, San Diego, CA	Invited speaker
2013	Experimental Biology/American Society for Biochemistry and Molecular Biology National Meeting, "Cool Catalysis and Radically-New Reaction Mechanisms", Boston, MA	Invited speaker

REGIONAL AND OTHER INVITED PRESENTATIONS

2007	Cornell University, Department of Chemistry, Ithaca, NY	Invited speaker
2007	University of Pennsylvania, Department of Chemistry, Pittsburgh, PA	Invited speaker
2007	University of North Carolina at Chapel Hill, Department of Chemistry, Chapel Hill, NC	Invited speaker
2007	University of Illinois at Urbana-Champaign, Department of Chemistry, Urbana-Champaign, IL	Invited speaker
2007	Northwestern University, Department of Chemistry, Evanston, IL	Invited speaker
2007	UCLA, Department of Chemistry, Los Angeles, CA	Invited speaker
2007	University of Minnesota, Department of Chemistry, Minneapolis, MN	Invited speaker
2007	University of Pittsburgh, Department of Chemistry, Pittsburgh, PA	Invited speaker
2008	Harvard University, Department of Chemistry and Chemical Biology, Cambridge, MA	Invited speaker
2008	Stanford University, Department of Chemistry, Palo Alto, CA	Invited speaker
2008	MIT, Department of Chemistry, Cambridge, MA	Invited speaker
2008	Sloan-Kettering Institute, Molecular Pharmacology and Chemistry, New York, NY	Invited speaker
2008	Rockefeller University, New York, NY	Invited speaker
2008	UCSF Tetrad Retreat, Granlibakken, Tahoe City, CA	Invited speaker
2008	UCSF Biophysics Retreat, Tiburon, CA	Poster
2008	California State University at Los Angeles, Los Angeles, CA	Invited speaker
2008	UCSF BBC Retreat, Monterey, CA	Invited speaker
2009	Gordon Research Conference on Bioorganic Chemistry, Andover, NH	Poster, Discussion leader
2009	FibroGen Inc., San Francisco, CA	Invited speaker
2010	UC Berkeley, QB3, Berkeley, CA	Invited speaker
2010	UC Davis, Department of Chemistry, Davis, CA	Invited speaker
2011	Johns Hopkins University School of Medicine, Department of Pharmacology and Molecular Sciences, Baltimore, MD	Invited speaker
2011	Gordon Research Conference on Bioorganic Chemistry, Andover, NH	Invited short talk
2011	Princeton University, Department of Chemistry, Princeton, NJ	Invited speaker
2011	UCSF BMI, Biophysics and CCB Retreat, Monterey, CA	Invited speaker
2012	San Francisco State University, Department of Chemistry & Biochemistry, San Francisco, CA	Invited speaker
2013	University of Utah, Department of Chemistry, Salt Lake City, UT	Invited speaker
2013	Searle Scholars Meeting, Chicago, IL	Poster
2013	University of Washington, Department of Chemistry, Seattle, WA	Invited speaker
2013	Gordon Research Conference on Bioorganic Chemistry, Andover, NH	Poster
2013	UCSF-Sanofi Symposium, Cambridge, MA	Invited speaker
2013	Tetrad Retreat, Granlibakken, CA	Invited speaker
2013	Developmental Therapeutics Program Meeting, UCSF Cancer Center	Invited speaker
2013	Indiana University, Department of Chemistry, Bloomington, IN	Invited speaker

2014	Harvard University, Department of Chemistry, Cambridge, MA	Invited speaker
2014	Cornell University, Department of Chemistry, Ithaca, NY	Invited speaker
2014	University of Illinois, Department of Chemistry, Urbana-Champaign, IL	Invited speaker
2014	UC Berkeley, Department of Chemistry, Berkeley, CA (upcoming)	Invited speaker
2014	University of Texas - Southwestern, Department of Biochemistry, Dallas, TX (upcoming)	Invited speaker
2014	UC Santa Cruz, Department of Chemistry and Biochemistry, Santa Cruz, CA (upcoming)	Invited speaker

PUBLIC SERVICE

2011 - 2011	NIH, K99/R00 Grants	ad-hoc reviewer
2011 - 2011	NSF, Molecular & Cellular Biosciences	ad-hoc reviewer
2011 - present	NSF, Chemistry Directorate	grant review panelist & ad-hoc reviewer
2012 - present	NIH, Macromolecular Structure and Function E	ad-hoc member

PEER REVIEWED PUBLICATIONS

- Lalic G, Petrovski Z, **Galonic D**, Matovic R, Saicic RN. Alkylation of Carbonyl Compounds in the TiCl₄-promoted Reaction of Trimethylsilyl Enol Ethers with Ethylene Oxide, *Tetrahedron Lett.* 41: 763-6, 2000.
- Lalic G, Petrovski Z, **Galonic D**, Matovic R, Saicic RN. Alkylation of Carbonyl Compounds in the TiCl₄-promoted Reaction of Trimethylsilyl Enol Ethers with Epoxides, *Tetrahedron.* 57: 583-91, 2001.
- Lalic G, **Galonic D**, Matovic R, Saicic RN. Model Study of Epothilone Synthesis: An Alternative Synthetic Approach to the C1-C7 fragment, *J Serb Chem Soc.* 67: 221-7, 2002.
- Galonic DP**, van der Donk WA, Gin DY. Oligosaccharide-Peptide Ligation of Glycosyl Thioliates with Dehydropeptides. Synthesis of S-Linked Mucin Glycopeptide Conjugates, *Chem Eur J.* 9: 5997-6006, 2003.
- Galonic DP**, van der Donk WA, Gin DY. Convergent Site-Selective Ligation with Aziridine-2-Carboxylic Acid Containing Peptides, *J Am Chem Soc.* 126: 12712-2, 2004.
- Galonic DP**, Ide ND, van der Donk WA, Gin DY. Aziridine-2-Carboxylic Acid Containing Peptides. Application to Solution- and Solid-Phase Convergent Site-Selective Peptide Modification, *J Am Chem Soc.* 127: 7359-69, 2005.
- Ide, ND, **Galonic DP**, van der Donk WA, Gin DY. Conjugation of selenols with aziridine-2-carboxylic acid-containing peptides, *Synlett.* 13: 2011-4, 2005.
- Galonic DP**, Vaillancourt FH, Walsh CT. Halogenation of unactivated carbon centers in natural product biosynthesis: Trichlorination of leucine during barbamide biosynthesis, *J Am Chem Soc.* 128: 3900-1, 2006.
- *Ueki M, ***Galonic DP**, *Vaillancourt FH, Garneau-Tsodikova S, Yeh E, Vosburg DA, Schroeder FC, Osada H, Walsh CT. Enzymatic Generation of the Antimetabolite γ,γ -Dichloroaminobutyrate by NRPS and Mononuclear Iron Halogenase Action in a Streptomyces, *Chem Biol.* 13: 1183-91, 2006. (* equal contribution).
- Kelly WL, Boyne II MT, Yeh E, Vosburg DA, **Galonic DP**, Kelleher NL, Walsh CT. Characterization of the Aminocarboxycyclopropane-Forming Enzyme CmaC, *Biochemistry.* 46: 359-68, 2007.

11. **Galonic DP**, Barr EW, Walsh CT, Bollinger Jr JM, Krebs C. Two Interconverting Fe(IV) Intermediates in Aliphatic Chlorination by the Halogenase CytC3, *Nature Chem Biol.* 3: 113-6, 2007.
12. **Fujimori DG**, Hrvatin S, Neumann CS, Strieker M, Marahiel MA, Walsh CT. Cloning and Characterization of the Biosynthetic Gene Cluster for Kutznerides, *Proc Natl Acad Sci USA.* 104: 16498-503, 2007.
13. **Fujimori DG**, Barr EW, Matthews ML, Koch GM, Yonce JR, Walsh CT, Bollinger Jr JM, Krebs C, Riggs-Gelasco PJ. Spectroscopic Evidence for a High-Spin Br-Fe(IV)-Oxo Intermediate in the α -Ketoglutarate-Dependent Halogenase CytC3 from *Streptomyces*, *J Am Chem Soc.* 129: 13408-9, 2007.
14. Neidig ML, Brown CD, Light K, **Fujimori DG**, Nolan EM, Price JC, Barr EW, Bollinger Jr JM, Krebs C, Walsh CT, Solomon EI. CD and MCD of CytC3 and Taurine Dioxygenase: Role of Facial Triad in α -KG-Dependent Dioxygenases, *J Am Chem Soc.* 129: 14224-31, 2007.
15. Wong C, **Fujimori DG**, Walsh CT, Drennan CL. Structural Analysis of an Open Active Site Conformation of Nonheme Iron Halogenase CytC3, *J Am Chem Soc.* 131: 4872-9, 2009.
16. Yan F, LaMarre JM, Rohrich R, Wiesner J, Jomaa H, Mankin AS, **Fujimori DG**. RlmN and Cfr are Radical SAM Enzymes Involved in Methylation of Ribosomal RNA, *J Am Chem Soc.* 132: 3953-64, 2010.
 - Highlighted in Chemical & Engineering News
 - "Must read" Faculty 1000 Biology
 - JACS Select 2011: Chemical Mechanisms of Biochemical Reactions
17. Yan F, **Fujimori DG**. RNA Methylation by Radical SAM Enzymes RlmN and Cfr Proceeds via Methylene Transfer and Hydride Shift, *Proc Natl Acad Sci USA.* 108: 3930-34, 2011.
 - Highlighted in Chemical & Engineering News
 - "Must read" Faculty 1000 Biology
18. McCusker KP, Medzihradzky KF, Shiver AL, Nichols RJ, Yan F, Maltby DA, Gross CA, **Fujimori DG**. Covalent Intermediate in the Catalytic Mechanism of the Radical SAM Methyl Synthase RlmN Trapped by Mutagenesis, *J Am Chem Soc.* 134: 18074-81, 2012.
 - Recommended by Faculty 1000 Chemical Biology
19. Le DD, Cortesi A, Myers SA, Burlingame AL, **Fujimori DG**. Site- and Regiospecific Installation of Methylarginine Analogs into Recombinant Histones and Insights into Effector Protein Binding, *J Am Chem Soc.* 135: 2879-2882, 2013.
 - JACS Spotlight: Publication highlighted by Editors
20. Shiao C, Trnka MJ, Bozicevic A, Ortiz Torres I, Al-Sady B, Burlingame AL, Narlikar GJ, **Fujimori DG**. Reconstitution of Nucleosome Demethylation and Catalytic Properties of a Jumonji Histone Demethylase, *Chem Biol.* 20: 494-9, 2013.

Review Articles

1. Gieselmann MD, Zhu Y, Zhou H, **Galonic D**, van der Donk WA. Selenocysteine Derivatives for Chemoselective Ligations, *Chem Bio Chem.* 3: 709-16, 2002 (review).
2. **Galonic DP**,* Gin DY.* Chemical Glycosylation in the Synthesis of Glycoconjugate Antitumor Vaccines, *Nature.* 446: 1000-7, 2007 (review). (* corresponding authors)
3. **Fujimori DG**, Walsh CT. What's New in Enzymatic Halogenations, *Curr Opin Chem Biol.* 11: 553-60, 2007 (review).
4. Krebs C, **Fujimori DG**, Walsh CT, Bollinger Jr JM. Non-heme Fe(IV)-Oxo Intermediates, *Acc Chem Res.* 40: 484-92, 2007 (review).
5. Neumann CS, **Fujimori DG**, Walsh CT. Halogenation Strategies in Natural Products Biosynthesis, *Chem Biol.* 15: 99-109, 2008 (review).

6. McCusker KM, **Fujimori DG**. The Chemistry of Peptidyltransferase Center-Targeted Antibiotics: Enzymatic Resistance Mechanisms and Approaches to Countering Resistance, ACS Chem Biol. 7: 64-72, 2012 (review).
7. Le DD, **Fujimori DG**. Protein and Nucleic Acid Methylating Enzymes: Mechanisms and Regulation, Curr Opin Chem Biol. 16: 507-515, 2012 (review).
8. **Fujimori, DG**. Radical SAM-Mediated Methylation Reactions. Curr Opin Chem Biol. 17: 597-604, 2013 (review).

Other Publications

1. **Fujimori DG**. Hypoxia Sensing goes Gauche, Nat Chem Biol. 5: 202-3, 2009. (news & views)
2. **Fujimori DG**. A Novel Enzymatic Rearrangement, Chem Biol. 17: 1269-70, 2010. (preview)