

Juan R. Del Valle, Ph.D.

W. K. Warren Family Professor
Department of Chemistry & Biochemistry
University of Notre Dame
Notre Dame, IN 46556

Office: 240G McCourtney Hall
Phone: 574-631-9864
Email: jdelvalle@nd.edu

EDUCATION

- 2004 Ph.D. in Chemistry
 University of California San Diego | La Jolla, CA
- 1999 B.A. in Chemistry
 Carleton College | Northfield, MN

POSITIONS AND EMPLOYMENT

- 2023– W. K. Warren Family Professor
 Associate Department Chair
 Department of Chemistry & Biochemistry
 University of Notre Dame | Notre Dame, IN
- 2019–2023 W.K. Warren Family Associate Professor
 Department of Chemistry & Biochemistry
 University of Notre Dame | Notre Dame, IN
- 2015–2019 Associate Professor
 Department of Chemistry
 University of South Florida | Tampa, FL
- 2009–2015 Assistant Professor
 Chemical Biology and Molecular Medicine Program
 H. Lee Moffitt Cancer Center & Research Institute
 and Department of Oncological Science
 University of South Florida | Tampa, FL
- 2006–2008 Assistant Professor
 Department of Chemistry & Biochemistry
 New Mexico State University | Las Cruces, NM
- 2004–2006 Postdoctoral Fellow
 Department of Chemistry
 University of Montreal | Montreal, QC
- 1999–2004 Graduate Research Assistant
 Department of Chemistry & Biochemistry
 University of California San Diego | La Jolla, CA

CURRENT AFFILIATIONS

Warren Family Center for Drug Discovery, University of Notre Dame (Member)
Harper Cancer Research Institute, University of Notre Dame (Member)
Integrated Biomedical Sciences Graduate Program, University of Notre Dame (Faculty Mentor)
Chemistry-Biochemistry-Biology Interface Program, University of Notre Dame (Faculty Mentor)

PUBLICATIONS

65. Angera IJ, Wright MM, Del Valle JR* Beyond N-alkylation: Synthesis, structure, and function of N-amino peptides. *Acc. Chem. Res.* (2024) *ASAP*.
64. Anwar AF, Cain CF, Garza MJ, Degen D, Ebright RH, Del Valle JR* Stabilizing pseudouridimycin: Synthesis, RNA polymerase inhibitory activity, and antibacterial activity of dipeptide-modified analogues. *ChemMedChem* (2024) *19*, e202300474. PMID: 37751316
63. Rajewski BH, Makwana KM, Angera IJ, Geremia DK, Zepeda AR, Hallinan GI, Vidal R, Ghetti B, Serrano AL, Del Valle JR* β -Bracelets: Macrocyclic cross- β epitope mimics based on a tau conformational strain. *J. Am. Chem. Soc.* (2023) *145*, 23131. PMID: 37844142
62. Zhu R, Makwana KM, Zhang Y, Rajewski BH, Del Valle JR*, Wang Y* Blocking tau transmission by biomimetic graphene nanoparticles. *J. Mater. Chem. B.* (2023) *11*, 7378. PMID: 37431684
61. Rajewski BH, Wright MM, Gerrein TA, Del Valle JR* N-Aminoglycine and its derivatives stabilize PPII secondary structure. *Org. Lett.* (2023) *25*, 4366. PMID: 37276840
60. Elbatrawi YM, Gerrein TA, Anwar A, Makwana K, Degen D, Ebright RH, Del Valle JR* Total synthesis of pargamicin A. *Org. Lett.* (2022) *24*, 9285. PMID: 36516292
59. Rathman BM, Del Valle JR* Late-stage sidechain-to-backbone macrocyclization of N-amino peptides. *Org. Lett.* (2022) *24*, 1536. PMID: 35157469
58. Cain CF, Scott AM, Del Valle JR* Total synthesis and chemical stability of pseudouridimycin. *Chem. Commun.* (2022) *58*, 2351. PMID: 35080211
57. Shao A, Xu Q, Kang C, Cain CF, Tang C, Del Valle JR*, Hu C* An IRE-1-targeting caged prodrug with ER stress-inducing and XBP-1s-inhibiting activities for cancer therapy. *Mol. Pharm.* (2022) *19*, 1059. PMID: 35253431
56. Makwana K, Sarnowski MP, Miao J, Lin, Y, Del Valle JR* N-amination converts amyloidogenic tau peptides into soluble antagonists of cellular seeding. *ACS Chem. Neuro.* (2021) *12*, 3928. PMID: 34609825
55. Gerrein T, Elbatrawi YM, Del Valle JR* Diastereoselective synthesis of (3*R*,5*R*)- γ -hydroxypiperazic acid. *Synlett* (2021) *32*, 1747.

54. Rathman BM, Rowe JL, Del Valle JR* Synthesis and conformation of backbone N-aminated peptides. *Methods Enzymol.* (2021) 656, 271. PMID: 34325790
53. Tang C, Lee AC, Chang S, Xu Q, Shao A, Lo Y, Spalek W, Pinilla-Ibarz JA, Del Valle JR, Hu, CA* STING regulates BCR signaling in normal and malignant B cells. *Cell. Mol. Immunol.* (2021) 18, 1016. PMID: 32999453
52. Shao A, Xu Q, Spalek WT, Cain CF, Kang C, Tang A, Del Valle JR*, Hu A* Development of tumor-targeting IRE-1 inhibitors for B cell cancer therapy. *Mol. Cancer Ther.* (2020) 19, 2432. PMID: 33051362
51. Rathman BM, Adams JL, Shaw LN, Del Valle JR* Synthesis and biological evaluation of backbone-aminated analogues of gramicidin S. *Bioorg. Med. Chem. Lett.* (2020) 30, 127283. PMID: 32527462
50. Sarnowski MP, Del Valle JR* N-Hydroxy peptides: Synthesis and β -sheet propensity. *Org. Biomol. Chem.* (2020), 18, 3690. PMID: 32352126
49. Tillett KC, Del Valle JR* N-Amino peptide scanning reveals inhibitors of A β 42 aggregation. *RSC Adv.* (2020), 10, 14331. PMID: 35498502
48. Elbatrawi YM, Pedretty KP, Giddings N, Woodcock HL, Del Valle JR* δ -Azaproline and its oxidized variants. *J. Org. Chem.* (2020) 85, 4207. PMID: 32101435
47. Howard EH, Cain CF, Kang C, Del Valle JR* Synthesis of enantiopure ϵ -pipecolic acid. *J. Org. Chem.* (2020) 85, 1680. PMID: 31661266
46. Shao A, Kang C, Tang C, Cain CF, Xu Q, Phoumyvong C, Del Valle JR*, Hu C* Structural tailoring of a novel fluorescent IRE-1 RNase inhibitor to precisely control its activity. *J. Med. Chem.* (2019) 62, 5404. PMID: 31083990
45. Cain CF, Howard EH, Goodwin JA, Del Valle JR* Synthetic studies toward eleganine A. *Arkivoc* (2019) 80. (Invited contribution)
44. Liu L, Zhao M, Jin X, Ney G, Yang K, Peng F, Cao J, Iwawaki T, Del Valle JR, Chen X, Li Q* Adaptive ER stress signaling via IRE1 α /XBP1 preserves self-renewal of hematopoietic and pre-leukemic stem cells. *Nat. Cell Biol.* (2019), 21, 328. PMID: 30778220
43. Betts BC*, Locke FL, Sagatys EM, Pidala J, Walton K, Menges M, Reff J, Saha A, Djeu JY, Kiluk JV, Lee MC, Kim J, Kang C, Tang CA, Frieling J, Lynch CC, List A, Rodriguez PC, Blazar BR, Conejo-Garcia JR, Del Valle JR, Hu CA, Anasetti C, Inhibition of human dendritic cell ER stress response reduces T cell alloreactivity yet spares donor anti-tumor immunity. *Front. Immunol.* (2018) 9, 2887. PMID: 30574153
42. Elbatrawi YM, Kang C, Del Valle JR* Total synthesis of L-156,373 and an oxoPiz analogue via a submonomer approach. *Org. Lett.* (2018), 20, 2707. PMID: 29667833

41. Tang CA, Chang S, Hashimoto A, Chen Y, Kang C, Mato AR, Del Valle JR, Gabrilovich D, Hu CA* Secretory IgM exacerbates tumor progression by inducing accumulations of MDSCs in mice. *Cancer Immun. Res.* (2018), 6, 696. PMID: 29650518
40. Tang CA, Chang S, Paton AW, Paton JC, Gabrilovich DI, Ploegh HL, Del Valle JR, Hu CA* Phosphorylation of IRE1 at S729 regulates RIDD in B cells and antibody production after immunization. *J. Cell Biol.* (2018) 217, 1739. PMID: 29511123
39. Xie, H, Tang CA, Song JH, Mancuso A, Del Valle JR, Cao J, Xiang Y, Sanchez DJ, Keith B, Hu CA, Simon MC* IRE1 α RNase-dependent lipid homeostasis promotes survival in Myc-transformed cancers. *J. Clin. Inv.* (2018) 128, 1300. PMID: 29381485
38. Schutt SD, Wu Y, Tang CA, Bastian D, Nguyen H, Sofi MH, Zhang M, Liu C, Helke K, Wilson C, Schnapp LM, Del Valle JR, Hu CA, Yu XZ*, *Blood Adv.* (2018) 2, 414. PMID: 29483082
37. Sarnowski MP, Pedretty KP, Giddings, Woodcock HL, Del Valle JR* Synthesis and β -sheet propensity of constrained *N*-amino peptides. *Bioorg. Med. Chem.* (2018) 26, 1162. PMID: 28882503
36. Sarnowski MP, Kang C, Elbatrawi YM, Wojtas L, Del Valle JR* Peptide *N*-amination supports β -sheet conformation. *Angew. Chem. Int. Ed.* (2017), 56, 2083. PMID: 28106315
35. Kang C, Sarnowski MP, Elbatrawi YM, Del Valle JR* Access to enantiopure α -hydrazino acids for *N*-amino peptide synthesis. *J. Org. Chem.* (2017), 82, 1833. PMID: 28075135
34. Tavernier S, Osorio F, Vandersarren L, Vettters J, Van-langenakker N, Van Isterdael G, Vergote K, Parthoens F, Van de laar L, Iwawaki T, Del Valle JR, Hu CA, Janssens S Regulated Inositol-Requiring Enzyme 1 dependent mRNA decay sets the threshold for dendritic cell survival. *Nature Cell Biol.* (2017), 19, 698. PMID: 28459443
33. Del Valle JR* Heterocyclic extended dipeptide surrogates for β -strand stabilization. In *Topics in Heterocyclic Chemistry - Peptidomimetics II*; Lubell, W., Ed.; Springer International Publishing, 2017, p 25-49. (Invited review)
32. Tang CA, Zundell JA, Ranatunga S, Lin C, Nefedova Y, Del Valle JR, Hu CA* Agonist-mediated activation of STING induces apoptosis in malignant cells. *Cancer Res.* (2016), 76, 2137. PMID: 26951929
31. Kang C, Sarnowski MP, Ranatunga S, Wojtas L, Metcalf RD, Guida WC, Del Valle JR* β -strand mimics based on tetrahydropyridazinedione (tpd) peptide stitching. *Chem. Commun.* (2015), 15, 16259. PMID: 26400240
30. Kang C, Ranatunga S, Sarnowski MP, Del Valle JR* Solid-phase synthesis of tetrahydropyridazinedione-constrained peptides. *Org. Lett.* (2014), 16, 5434. PMID: 25295511
29. Kim YB, Kang CW, Ranatunga S, Yang H, Sebti SM, Del Valle JR* Imidazo[1,2-*a*]pyridine-based peptidomimetics as inhibitors of Akt. *Bioorg. Med. Chem. Lett.* (2014) 24, 4650. PMID: 25205195

28. Ranatunga S, Tang CA, Kang C, Kloppenburg B, Kriss CL, Hu CA*, Del Valle JR†* Synthesis of novel tricyclic chromenone-based inhibitors of IRE-1 RNase activity. *J. Med. Chem.* (2014) 57, 4289. PMID: 24749861
27. Tang CA, Ranatunga S, Kriss, CL, Cubbitt CL, Pinilla-Ibarz JA, Del Valle JR*, Hu CA* Inhibition of ER stress-associated IRE-1/XBP-1 pathway reduces leukemic cell survival. *J. Clin. Inv.* (2014) 124, 2585. PMID: 24812669
26. Kang C, Sun Y, Del Valle JR* Substituted imidazo[1,2-a]pyridines as β -strand peptidomimetics. *Org. Lett.* (2012) 14, 6162. PMID: 23210770
25. Ranatunga S, Tang CA, Hu CA, Del Valle JR* Total synthesis and structural revision of lucentamycin A. *J. Org. Chem.* (2012) 77, 9859. PMID: 23039096
24. Cha JW, Park JS, Sim T, Nam S, Kwon HC, Del Valle JR, Fenical W* Structure assignment of lucentamycin E and revision of the olefin geometries of the marine-derived lucentamycins. *J. Nat. Prod.* (2012) 75, 1648. PMID: 22953793
23. Kim YB, Balasis ME, Doi K, Berndt N, DuBoulay C, Hu CA, Guida W, Wang HG, Sebti SM, Del Valle JR* Synthesis and evaluation of substituted hexahydronaphthalene derivatives as novel inhibitors of the Mcl-1/BimBH3 interaction. *Bioorg. Med. Chem. Lett.* (2012) 22, 5961. PMID: 22901384
22. Kriss CL, Pinilla-Ibarz JA, Mallioux A, Powers JJ, Tang CA, Kang C, Zanesi N, Epling-Burnette PK, Sotomayor EM†, Croce CM, Del Valle JR*, Hu, CA* Overexpression of TCL1 activates endoplasmic reticulum stress response: A novel mechanism of leukemic progression in mice. *Blood* (2012) 120, 1027. PMID: 22692508
21. Ranatunga S, Kim JS, Pal U, Del Valle JR* An Ester Enolate-Claisen Rearrangement Route to Substituted 4-Alkylideneprolines. Studies toward a Definitive Structural Revision of Lucentamycin A. *J. Org. Chem.* (2011) 76, 8962. PMID: 21942643
20. Ranatunga S, Del Valle JR* Synthesis of GSK3 β -Mimetic Inhibitors of Akt Featuring a Novel Extended Dipeptide Surrogate. *Bioorg. Med. Chem. Lett.* (2011) 21, 7166. PMID: 22001093
19. Kim YB, Del Valle JR* Synthesis of a diversifiable cis-dehydrodecalin scaffold based on meiogynin A. *Tetrahedron Lett.* (2011) 52, 6396.
18. Ranatunga S, Liyanage W, Del Valle JR* Synthesis and conformational analysis of bicyclic extended dipeptide surrogates. *J. Org. Chem.* (2010) 75, 5113. PMID: 20593836
17. Ranatunga S, Del Valle JR* Synthesis of Boc-protected bicycloproline. *Tetrahedron Lett.* (2009) 50, 2464.
16. Pal U, Ranatunga S, Ariyaratna Y, Del Valle JR* Total synthesis of the putative structure of lucentamycin A. *Org. Lett.* (2009) 11, 5298-301. PMID: 19863114

15. Liyanage W, Weerasinghe L, Strong RK, Del Valle JR* Synthesis of carbapoychelins via diastereoselective azidation of 5-(ethoxycarbonyl)methylproline derivatives. *J. Org. Chem.* (2008) 73, 7420-3. PMID: 18698823

Publications prior to independent career:

14. Dorich S, Del Valle JR, Hanessian S* Synthesis of functionalized octahydroindoles related to daphniphyllum alkaloids. *Synlett* (2014) 25, 799.
13. Del Valle JR, Thierren E, Hanessian S* Aeruginosins as thrombin inhibitors. In *Natural Products in Medicinal Chemistry, Vol. 60*:Wiley-VCH; 2013. p. 333. (Book chapter)
12. Hanessian S*, Vakiti RR, Dorich S, Banerjee S, Lecomte F, Del Valle JR, Zhang J, Deschenes-Simard B Total synthesis of pactamycin. *Angew. Chem. Int. Ed.* (2011) 50, 3497. PMID: 21370372
11. Hanessian S*, Wang X, Ersmark K, Del Valle JR, Klegraf E Total synthesis and structural revision of the presumed aeruginosins 205A and B. *Org. Lett.* (2009) 11, 4232. PMID: 19691354
10. Del Valle JR, Wang X, Ersmark K, Hanessian S* β -Substituted D-leucines and their relevance in the total synthesis of natural and unnatural aeruginosins. in *Asymmetric Synthesis and Application of α -Amino Acids*: American Chemical Society; 2009. p. 443. (Invited contribution)
9. Ersmark K, Del Valle JR, Hanessian S* Chemistry and biology of the aeruginosin family of serine protease inhibitors. *Angew. Chem. Int. Ed.* (2008) 47, 1202. PMID: 18076006
8. Hanessian S*, Ersmark K, Wang X, Del Valle JR, Blomberg N, Xue Y Structure-based organic synthesis of unnatural aeruginosin hybrids as potent inhibitors of thrombin. *Bioorg. Med. Chem. Lett.* (2007) 17, 3480. PMID: 17428662
7. Hanessian S*, Del Valle JR, Xue Y, Blomberg, N Total synthesis and structural confirmation of chlorodysinosin A. *J. Am. Chem. Soc.* (2006) 128, 10491. PMID: 16895415
6. Zapf CW, Del Valle JR, Goodman M* Utilizing the intramolecular Fukuyama-Mitsunobu reaction for a flexible synthesis of novel heterocyclic scaffolds for peptidomimetic drug design. *Bioorg. Med. Chem. Lett.* (2005) 15, 4033. PMID: 16002286
5. Hanessian S*, Tremblay M, Marzi M, Del Valle JR Synthetic studies in the intramolecular carbocyclization of N-acyloxyiminium ions. Stereoelectronic and steric implications of nucleophilic alkene, alkyne, and allene tethers. *J. Org. Chem.* (2005) 70, 5070. PMID: 15960507
4. Del Valle JR, Goodman M* An efficient RCM-based synthesis of orthogonally protected meso-DAP and FK565. *J. Org. Chem.* (2004) 69, 8946. PMID: 15575780
3. Del Valle JR, Goodman M* Asymmetric hydrogenations for the synthesis of Boc-protected 4-alkylprolinols and prolines. *J. Org. Chem.* (2003) 68, 3923. PMID: 12737573

2. Del Valle JR, Goodman M* Stereoselective synthesis of Boc-protected cis and trans-4-trifluoromethylprolines by asymmetric hydrogenation reactions. *Angew. Chem. Int. Ed.* (2002) 41, 1600. PMID: 19750679
1. Goodman M*, Del Valle JR, Amino Y, Benedetti E Molecular basis of sweet taste in dipeptide taste ligands. *Pure Appl. Chem.* (2002)74, 1109. (Invited contribution)

PATENTS ISSUED

3. Del Valle JR. *N*-amino peptide beta-sheet mimics for the treatment of Alzheimer's disease. United States Patent US 10,507,226. USPTO. December 17, 2019.
2. Del Valle JR, Shaw L. Antimicrobial analogues of gramicidin S. United States Patent US 10,351,602. USPTO. July 16, 2019.
1. Del Valle JR, Hu CA. Inhibitors of the IRE-1/XBP-1 pathway and methods of using thereof. United States Patent US 10,323,013. USPTO. June 18, 2019.

RESEARCH FUNDING

Active grants:

Chemical approaches to selectively target β -rich amyloids (8/15/21 – 5/31/26)

Source: National Institutes of Health

Grant#: 1R01AG074570

PI: Del Valle JR

Role: Principal Investigator

Total award: \$2,543,733

XPB1 inhibition and STING activation for the treatment of cancer (4/8/22 – 3/31/27)

Source: National Institutes of Health

Grant #: 1R01CA268340

PI: Del Valle JR and Hu CA

Role: Principal Investigator

Total award: \$2,929,010

*Backbone *N*-heteroatom protein orthotics (7/1/21 – 6/30/24)*

Source: National Science Foundation

Grant#: CHE2109008

PI: Del Valle JR

Role: Principal Investigator

Total award: \$460,000

Computational and biophysical analysis of the filovirus matrix protein system (8/1/21 – 7/31/26)

Source: Source: National Institutes of Health

Grant #: 1R01AI158220

PI: Stahelin RV and Wiest O

Role: Co-Investigator
Total award: \$3,612,526

Targeting ER stress response in B-cell CLL (4/1/19 – 3/31/24)

Source: National Institutes of Health

Grant #: 1R01CA163910-07

PI: Hu, CA

Role: Co-Investigator

Total award: \$2,078,910

Completed grants:

Pharmacological blockade of XBP-1s expression in cancer (9/14/15 – 8/31/21)

Source: National Institutes of Health

Grant#: 1R01CA190860-01

PI: Del Valle JR and Hu CA

Role: Principal Investigator

Total award: \$2,019,07

N-Amino peptide-derived β -sheet mimics (8/1/17 – 7/31/21)

Source: National Science Foundation

Grant#: CHE1709927

PI: Del Valle JR

Role: Principal Investigator

Total award: \$418,108

Targeting tau with peptidomimetic inhibitors (1/9/19 – 1/8/20)

Source: USF College of Medicine (*Internal*)

Grant #: IS415-9

PI: Del Valle JR and Blair L

Role: Principal Investigator and Contact PI

Total award: \$50,000

Optimization and efficacy of covalent IRE-1 RNase inhibitors in CLL (9/1/15 – 8/31/18)

Source: National Institutes of Health

Grant #: 1R21CA199553-01

PI: Del Valle JR

Role: Principal Investigator

Total award: \$459,500

Targeting antigen-induced ER stress response in B-cell CLL (9/1/13 – 6/30/18)

Source: National Institutes of Health

Grant #: 1R01CA163910-01A

PI: Hu, CA

Role: Co-Investigator

Total award: \$1,748,188

Targeting Akt with substrate-mimetic antagonists (9/1/12 – 8/31/15)

Source: National Institutes of Health

Grant #: 5R21CA167215

PI: Del Valle JR
Role: Principal Investigator
Total award: \$403,137

Inhibition of the IRE-1/XBP-1 pathway in B-cell cancer (2/1/14 – 1/31/15)

Source: Moffitt Team Science Fund (*Internal*)

PI: Del Valle JR and Hu CA

Role: Principal Investigator

Total award: \$150,000

Chemical and biological studies of marine-derived non-ribosomal peptides (7/1/10 – 6/30/13)

Source: Florida Department of Health

Grant #: 1BN03

PI: Del Valle JR

Role: Principal Investigator

Total award: \$400,00

Natural product-inspired approaches targeting Mcl-1 (7/1/10 – 6/30/13)

Source: Florida Department of Health

Grant #: 1KN03

PI: Del Valle JR

Role: Principal Investigator

Total award: \$400,000

Probing novel mechanisms to target kinases for cancer drug discovery (1/1/13 – 12/31/13)

Source: Anna Valentine Cancer Fund (*Internal*)

PD: Sebti SM

Role: Project Leader

Total award: \$75,000

Synthesis of new ligands for characterization of siderophore-ExFABP interactions (9/30/07 – 8/31/12)

Source: National Institutes of Health

Grant #: U54CA132383

PD: O'Connell M

Role: Project Leader

Total award: \$347,317

Synthesis of functional probes for siderocalin-induced apoptosis (7/1/09 – 6/30/10)

Source: American Cancer Society

Grant #: IRG9309214

PD: Pledger WJ

Role: Project Leader

Total award: \$30,000

Synthetic methods toward antimicrobial tert-alkylamino carbocycles (6/1/08 – 5/31/10)

Source: National Institutes of Health

Grant #: SC2AI081526

PI: Del Valle JR

Role: Principal Investigator

Total award: \$282,800

INVITED LECTURES AND ADDRESSES

2024 April	European Peptide Synthesis Conference Prague, Czech Republic
2024 April	University of Texas, Department of Chemistry Austin, TX
2024 March	Marquette University, Department of Chemistry Milwaukee, WI
2023 November	Southeastern University, Department of Chemistry Lakeland, FL
2023 October	13 th International Peptide Symposium Brisbane, Australia
2022 November	University of Rochester, Department of Chemistry Rochester, NY
2022 October	Chemistry & Biology of Peptides Gordon Research Conference Oxnard, CA
2022 July	Foldamer Workshop at New York University New York, NY
2022 June	American Peptide Society Symposium Whistler, BC, Canada
2022 March	Northwestern University, Department of Chemistry Evanston, IL
2022 March	Indiana Clinical and Translational Sciences Institute Retreat <i>virtual</i>
2021 December	Pacificchem <i>virtual</i>
2021 December	University of Arizona, College of Pharmacy Tuscon, AZ
2021 November	Wichita State University, Department of Chemistry Wichita, KS
2021 August	American Chemical Society National Meeting Atlanta, GA
2021 March	Boston College, Department of Chemistry <i>virtual</i>
2020 November	Wayne State University, Department of Chemistry <i>virtual</i>
2020 February	Vanderbilt University, Department of Chemistry Nashville, TN
2019 November	Brigham Young University, Department of Chemistry & Biochemistry Provo, UT
2019 May	Florida Annual Meeting of the American Chemical Society Palm Harbor, FL
2019 April	State University of New York at Albany, Department of Chemistry Albany, NY
2019 April	University of Florida, Drug Discovery Symposium Gainesville, FL
2019 April	American Chemical Society National Meeting Orlando, FL
2019 March	University of Alberta, Department of Chemistry Edmonton, Canada
2018 October	North Carolina State University, Department of Chemistry Raleigh, NC
2018 September	University of Notre Dame, Department of Chemistry & Biochem. Notre Dame, IN
2018 June	New York University, Foldamer Workshop New York, NY
2018 May	Canadian Society for Chemistry National Meeting Edmonton, Canada
2018 February	University of Montreal, Department of Chemistry Montreal, Canada
2017 October	Scripps Research Institute Florida, Department of Chemistry Jupiter, FL
2017 June	American Peptide Society Symposium Whistler, Canada
2017 May	Florida Annual Meeting of the American Chemical Society Palm Harbor, FL
2016 June	New York University, Foldamer Workshop New York, NY
2015 October	University of Texas at Dallas, Dept. of Chemistry & Biochem. Richardson, TX
2015 March	University of Pennsylvania, Department of Chemistry Philadelphia, PA
2015 March	American Chemical Society National Meeting Denver, CO
2015 March	Florida Heterocyclic and Synthetic Conference Gainesville, FL
2015 January	Wistar Institute, Molecular & Cellular Oncogenesis Program Philadelphia, PA
2015 January	Purdue University, Department of Medicinal Chemistry West Lafayette, IN
2015 December	University of Utah, Department of Medicinal Chemistry Salt Lake City, UT
2014 June	Canadian Society for Chemistry National Meeting Vancouver, Canada
2014 May	University of New Mexico, Center for Molecular Discovery Albuquerque, NM
2014 May	University of Denver, Department of Chemistry & Biochemistry Denver, CO
2014 February	University of Florida, Department of Medicinal Chemistry Gainesville, FL

2014 February	University of New Mexico, Dept. of Chemistry Albuquerque, NM
2013 May	Florida Annual Meeting of the American Chemical Society Palm Harbor, FL
2012 November	Southeastern Meeting of the American Chemical Society Raleigh, NC
2008 August	Fred Hutchinson Cancer Research Center, Division of Basic Science Seattle, WA
2007 November	New Mexico Tech, Department of Chemistry Socorro, NM

HONORS AND AWARDS

Warren Foundation Professorship	2019
Undergraduate Teaching Award, USF College of Arts & Sciences	2018
CIBA Young Scientist Award, awarded by the CIBA Foundation and ACS YCC	2010
Milestone Award, awarded by the Miles for Moffitt Foundation	2010
Teddy Traylor Award for graduate research	2003
Cota-Robles Graduate Fellowship	2001
San Diego Graduate Fellowship	1999
REU Fellowship, University of Utah	1998

COURSES TAUGHT

2024 Spring	CHEM 10172: Organic Structure and Reactivity 136 students
2023 Fall	CHEM 60631/40631: Advanced Organic Chemistry I – Physical Organic 27 students
2023 Spring	CHEM 10172: Organic Structure and Reactivity (Galvin Scholars) 41 students
2023 Spring	CHEM 13172: Problem Solving Skills (Galvin Scholars) 41 students
2022 Fall	CHEM 60631/40631: Advanced Organic Chemistry I – Physical Organic 15 students
2022 Spring	CHEM 10172: Organic Structure and Reactivity (Galvin Scholars) 35 students
2022 Spring	CHEM 13172: Problem Solving Skills (Galvin Scholars) 35 students
2021 Fall	CHEM 60631/40631: Advanced Organic Chemistry I – Physical Organic 11 students
2021 Spring	CHEM 10172: Organic Structure and Reactivity (Galvin Scholars) 36 students
2021 Spring	CHEM 13172: Problem Solving Skills (Galvin Scholars) 36 students
2020 Fall	CHEM 60631/40631: Advanced Organic Chemistry I – Physical Organic 12 students
2020 Spring	CHEM 10172: Organic Structure and Reactivity 116 students
2019 Spring	CHM 2211: Organic Chemistry II 150 students
2018 Fall	CHM 6263: Advanced Organic Chemistry – Physical Organic 26 students
2018 Spring	CHM 2211: Organic Chemistry II 180 students
2017 Fall	CHM 6263: Advanced Organic Chemistry – Physical Organic 12 students
2017 Spring	CHM 2211: Organic Chemistry II 167 students
2016 Fall	CHM 2211: Organic Chemistry II 177 students
2016 Spring	CHEM 2211: Organic Chemistry II 174 students
2014 Spring	PCB 6932: Bioethics 17 students (co-taught)
2014 Spring	PCB 6204: Cancer Biology II 13 students (co-taught)
2014 Fall	PCB 6230: Cancer Biology I 12 students (co-taught)
2014 Fall	CHM 4932/6938: Intro to Medicinal Chemistry 22 students (co-taught)
2012 Spring	CHM 4932/6938: Intro to Medicinal Chemistry 26 students (co-taught)
2008 Fall	CHEM 466/515: Advanced Organic Chemistry I 11 students
2008 Spring	CHEM 313: Organic Chemistry I 88 students
2007 Fall	CHEM 466/515: Advanced Organic Chemistry I 10 students

2007 Spring CHEM 313: Organic Chemistry I | 80 students
2006 Fall CHEM 466/515: Advanced Organic Chemistry I | 12 students

MENTORING

Postdoctoral research scholars supervised:

Abha Dangi (2023–present), Kamlesh Makwana (2018–2022), Jennifer Rowe (2020–2021), Changwon Kang (2010–2019), Justin Goodwin (2016–2018), Sujeewa Ranatunga (2013–2015), Yongmao Sun (2009–2012), Young Kim (2010–2012), Jinsoo Kim (2009–2011), Ujjwal Pal (2008–2009)

Graduate researchers supervised:

Ana-Teresa Mendoza (2023–present), Alex Renon (2023–present), Fadwa Kamari (2023–present), Natalia Cano Sampaio (2022–present), Theodore Stathopoulos (2022–present), Isaac Angera (2021–present), Madison Wright (2021–present), Avraz Anwar (2021–present), Syrah Starnes (2020–present), Benjamin Rajewski (2019–2024), Taylor Gerrein (2019–present), Benjamin Rathman (Ph.D. 2023), Christopher Cain (Ph.D. 2022), Yassin Elbatrawi (Ph.D. 2021), Matthew Sarnowski (Ph.D. 2021), William Motsch (M.A. 2018), Sujeewa Ranatunga (Ph.D. 2012), Wathsala Liyanage (M.S. 2009)

Predocctoral researchers supervised:

Constantijn Cole (2023–present), Katie Burns (2023–present), Hannah Bergin (2022–2023), Michael Garza (2022–2023), Luke Whitmer (2023 B.S.), Andrew Fugetta (2022 B.S.), Michael Siroky (2022 B.S.), Erin Fennessy (2022 B.S.), Xenia Sailors (2020 B.S.), Carlos Solanilla (2019 B.S.), Evan Howard (2019 B.S.), Megan Navarro (2018 B.S.), Fabio Vasconcellos (2017 B.S.), Ayasa Michii (2019 intern), Onelis Cardona (2019 intern), Hallie Lower (2016 intern), Bomi Kim (2016 intern), Bernie Kloppenberg (2013 B.S.), Leticia Montoya (2010 B.S.)

PROFESSIONAL SERVICE

Nominating Committee Member	American Peptide Society	2023–present
Vice-Chair, Chemistry & Biology of Peptides	Gordon Research Conference	2022–present
Co-Organizer, National Organic Symposium	American Chemical Society	2022–2023
Standing Member, CBP Study Section	National Institutes of Health	2023
Standing Member, SBCB Study Section	National Institutes of Health	2017–2023
Co-Organizer, Peptide Symposium	Pacificchem	2020
Council Member and Secretary	American Peptide Society	2015–2019
Ad Hoc Member, SBCB Study Section	National Institutes of Health	2014–2017
Ad Hoc Member, DMP Study Section	National Institutes of Health	2014–2016
Nominating Committee Member	American Peptide Society	2013–2015
Early Career Reviewer, SBCB Study Section	National Institutes of Health	2013
Ad Hoc Member, NCI R21/R03 Study Section	National Institutes of Health	2013
Co-Chair, Student Affairs Committee	American Peptide Society	2011–2013
Ad Hoc Member, SBIR 255 Study Section	National Institutes of Health	2012
Ad Hoc Member, SBIR 255 Study Section	National Institutes of Health	2011
Ad Hoc Member, CRIF-MU Review Panel	National Science Foundation	2008

INSTITUTIONAL SERVICE

Associate Chair, Chemistry & Biochemistry	University of Notre Dame	2022–present
Executive Committee, Chem & Biochem	University of Notre Dame	2022–present
Diversity Council, College of Science	University of Notre Dame	2021–present
Mentor, Galvin Scholars Program	University of Notre Dame	2020–2023
Mentor, Building Bridges Program	University of Notre Dame	2020–2023
Director of Graduate Admissions	University of Notre Dame	2021–2022
Member, Faculty Search Committee	University of Notre Dame	2021
Member, Graduate Admissions Committee	University of Notre Dame	2019–2021
Member, Faculty Search Committee	University of Notre Dame	2020
Faculty Senate Member	University of South Florida	2018–2019
Graduate Recruiting Committee	University of South Florida	2018–2019
Organic Division Coordinator, Chemistry	University of South Florida	2017–2019
Instrumentation Committee, Chemistry	University of South Florida	2017–2019
Mass Spec Core Advisory Committee	University of South Florida	2015–2019
NMR Core Advisory Committee	University of South Florida	2015–2019
Faculty Advisory Committee, Chemistry	University of South Florida	2016–2018
Research Value Analysis Committee	Moffitt Cancer Center	2013–2015
Chemical Biology Advisory Committee	Moffitt Cancer Center	2013–2015
Institutional Product Advisory Committee	Moffitt Cancer Center	2011–2013
OTMC Internship Review Committee	Moffitt Cancer Center	2012
American Cancer Society IRG Reviewer	Moffitt Cancer Center	2012
Safety Committee	New Mexico State University	2006–2008
Faculty Chair, Chem Club Committee	New Mexico State University	2006–2008

PROFESSIONAL ASSOCIATIONS

American Peptide Society
American Chemical Society
American Association for the Advancement of Science