



CURRICULUM VITAE

Daniel K. Nomura, Ph.D.

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Education

- 2008-2011 Postdoctoral Fellow in Chemical Physiology
Scripps Research (Advisor: Benjamin F. Cravatt)
- 2004-2008 Ph.D. in Molecular Toxicology
University of California, Berkeley (Advisor: John E. Casida)
- 1999-2003 B.A. in Molecular and Cell Biology
University of California, Berkeley (Advisor: John E. Casida)

Positions

- 2019-current Professor (with tenure)
University of California, Berkeley
Departments of Chemistry, Molecular and Cell Biology, and Nutritional Sciences and Toxicology
- 2019-current Adjunct Professor
University of California, San Francisco
Department of Pharmaceutical Chemistry
- 2017-current Director, Novartis-Berkeley Center for Proteomics and Chemistry Technologies
(NB-CPACT)
- 2016-2019 Associate Adjunct Professor
University of California, San Francisco
Department of Pharmaceutical Chemistry
- 2015-2019 Associate Professor (with tenure)
University of California, Berkeley
Departments of Nutritional Sciences and Toxicology, Chemistry,
and Molecular and Cell Biology
- 2011-2015 Assistant Professor
University of California, Berkeley
Department of Nutritional Sciences and Toxicology
- 2008-2011 Postdoctoral Fellow
The Scripps Research Institute, La Jolla, CA
Department of Chemical Physiology
Advisor: Professor Benjamin F. Cravatt
- 2004-2008 Graduate Researcher
University of California, Berkeley
Department of Nutritional Sciences and Toxicology
Advisor: Professor John E. Casida
- 2003-2004 Research Associate
University of California, Berkeley
Advisor: Professor John E. Casida
- 2000-2003 Undergraduate Research Assistant
University of California, Berkeley
Advisor: Professor John E. Casida

Daniel K. Nomura Biography

Dan Nomura is a Professor of Chemical Biology in the Departments of Chemistry, Molecular and Cell Biology, and Nutritional Sciences and Toxicology at the University of California, Berkeley and an Adjunct Professor in the Department of Pharmaceutical Chemistry at UCSF. Since 2017, he has also been the Director of the Novartis-Berkeley Center for Proteomics and Chemistry Technologies focused on using chemoproteomic platforms to tackle the undruggable proteome. He is also Co-Founder and Head of the Scientific Advisory Board of Frontier Medicines. He is also on the Scientific Advisory Committee of the Mark Foundation for Cancer Research. He earned his B.A. in Molecular and Cell Biology and Ph.D. in Molecular Toxicology at UC Berkeley with Professor John Casida and was a postdoctoral fellow at Scripps Research with Professor Ben Cravatt before returning to Berkeley as a faculty member in 2011. Among his honors are selection as a Searle Scholar, American Cancer Society Research Scholar Award, the Department of Defense Breakthroughs Award, Eicosanoid Research Foundation Young Investigator Award, and the Mark Foundation for Cancer Research ASPIRE award.

Major Research Directions

1. Chemoproteomics-enabled covalent ligand discovery platforms to tackle the undruggable proteome
2. Expanding the scope of targeted protein degradation using chemoproteomic platforms
3. Discovering new induced proximity-based therapeutic modalities

The Nomura Research Group is focused on reimagining druggability using chemoproteomic platforms to develop transformative medicines. One of the greatest challenges that we face in discovering new disease therapies is that most proteins are considered “undruggable,” in that most proteins do not possess known binding pockets or “ligandable hotspots” that small-molecules can bind to modulate protein function. Our research group addresses this challenge by advancing and applying chemoproteomic platforms to discover and pharmacologically target unique and novel ligandable hotspots for disease therapy. We currently have three major research directions. Our first major focus is on developing and applying chemoproteomics-enabled covalent ligand discovery approaches to rapidly discover small-molecule therapeutic leads that target unique and novel ligandable hotspots for undruggable protein targets and pathways. Our second research area focuses on using chemoproteomic platforms to expand the scope of targeted protein degradation technologies. Our third research area focuses on using chemoproteomics-enabled covalent ligand discovery platforms to develop new induced proximity-based therapeutic modalities. Collectively, our lab is focused on developing next-generation transformative medicines through pioneering innovative chemical technologies to overcome challenges in drug discovery.

Awards and Fellowships

2019	Mark Foundation for Cancer Research ASPIRE award
2015	ACS Research Scholar Award
2015	DOD Breakthroughs Award Recipient
2014	Finalist in DOD Era of Hope Breast Cancer Research Award (top 5 candidates)
2013	Eicosanoid Research Foundation Young Investigator Award
2013	Selected US (ACS) Representative for Transatlantic Frontiers of Chemistry Conference
2013	Hellman Fellows Awardee
2013	Michael J. Fox Foundation Target Validation Award
2012	Ellison Foundation for Aging Research Award (declined)
2012	Searle Scholar Award
2012	Outstanding Research Achievement Award from Nature Biotechnology/Amgen at SF <i>SciCafe</i>
2010	NIH Pathway to Independence (PI) Award (K99/R00)
2009	American Cancer Society Postdoctoral Fellowship
2009	California Breast Cancer Research Program Postdoctoral Fellowship (declined)

2008 Adelle Davis Award for Nutritional Sciences Research

Affiliations

2021-current Editorial Board Member of Cell Chemical Biology
2021-current Scientific Advisory Committee Member, Mark Foundation for Cancer Research
2019-current Investigator, Innovative Genomics Institute
2018-2021 Associate Editor of Cell Chemical Biology
2018-current Editor of Current Protocols in Chemical Biology
2018-current Co-Founder, Chair of the Scientific Advisory Board, and Consultant for Frontier Medicines

2018-current Editorial Advisory Board for Chemical Research in Toxicology
2017-current Director, Novartis-Berkeley Center for Proteomics and Chemistry Technologies
2016-current Member, UCSF Helen Diller Family Comprehensive Cancer Center
2016-current Member, UCSF Breast Oncology Program
2016-current Faculty in the Department of Molecular and Cell Biology, Biochemistry, Biophysics, and Structural Biology Division (UC Berkeley)

2016-current Adjunct Professor at UCSF, Department of Pharmaceutical Chemistry
2015-current Faculty in the Department of Chemistry (UC Berkeley)
2012-current Member of the Synthetic Biology Institute (UC Berkeley)
2012-2019 Adviser for Abide Therapeutics
2012-current Endocrinology Graduate Group (UC Berkeley)
2011-current Program in Metabolic Biology (UC Berkeley)
2011-current Chemical Biology Graduate Group (UC Berkeley)
2011-current Molecular Toxicology Graduate Group (UC Berkeley)
2011-current Molecular and Biochemical Nutrition Graduate Group (UC Berkeley)
2011-current Faculty in the Department of Nutritional Sciences and Toxicology (UC Berkeley)

Professional Associations

2004-current American Chemical Society
2004-2008 Society of Toxicology

Academic Services

2020-2021 Molecular and Cell Biology graduate admissions committee member
2018-2019 NST space committee
2018 Cal Day NST Speaker
2018-2020 Miller Fellow Advisory Committee for the Department of Chemistry
2017-current Director, Novartis-Berkeley Center for Proteomics and Chemistry Technologies
2017-current Member, Animal Care and Use Committee
2017-2019 Member, College of Natural Resources Executive Committee
2017 Cal Day NST Speaker
2016-2017 Member, Faculty selection committee for hiring in cancer biology for the Molecular and Cell Biology department
2016-2017 Member, Faculty selection committee for hiring the next chair for the Nutritional Sciences and Toxicology department
2016-2017 Faculty adviser for Chemistry-Chemical Biology students
2016-current Member, Executive/Long Range Planning committee for Nutritional Sciences and Toxicology
2016-2017 Member, working group to advise on academic realignment as it pertains to the College of Natural Resources and the L&S Biological Sciences Division
2016-current Member, Committee for Laboratory and Environmental Biosafety
2014-current Chair and Head Graduate Adviser, Molecular Toxicology Graduate Program
2014-2018 Member, CNR Student Faculty Relations Committee
2014 Member, Molecular and Cell Biology Cancer Faculty Search Committee
2014 Speaker for CalSO Faculty Showcase
2013-2017 Member, Metabolic Biology Graduate Affairs Committee
2012-current Regents' and Chancellors' Scholarship Faculty Mentor

2012	Member, Faculty Selection committee for the Nutritional Sciences and Toxicology Department
2012-2017	Member, Seminar Speaker Selection Committee
2011-2018	Member, Undergraduate Affairs Committee for the Nutritional Sciences and Toxicology Department
2011-current	Member, Molecular Toxicology Graduate Affairs Committee

Professional Services

2022	Chair for Bioorganic Chemistry Gordon Research Conference
2021	Vice Chair for Bioorganic Chemistry Gordon Research Conference
2021-current	Editorial Board Member of Cell Chemical Biology
2018-2021	Editor of Cell Chemical Biology
2018-current	Editor of Current Protocols in Chemical Biology
2018-current	Editorial Advisory Board for Chemical Research in Toxicology
2018	Discussion Leader at 2018 Bioorganic Chemistry Gordon Research Conference, Andover, New Hampshire.
2018	Study section ad hoc member for Enabling Bioanalytical and Imaging Technologies (EBIT) study section
2018	Chair and organizer of EMBO meeting "Enzymes, biocatalysis and chemical biology: The new frontiers" Pavia, Italy.
2018	Chair and organizer of "Chemoproteomics and Metabolomics" session at 2018 ASBMB Experimental Biology meeting, San Diego
2017-2019	Study section ad hoc member for Cancer Drug Development & Therapeutics (CDDT) study section
2017-current	Director, Novartis-Berkeley Center for Proteomics and Chemistry Technologies
2016	Study section ad hoc member for Recurring Special Emphasis Panel NIH ZRG1 BMCT-C(01) Molecular Targets and Cancer Intervention study section
2016	Study section member for Special Emphasis Panel NIH ZRG1 BSTU 50
2015	Editor for "Omics" Issue in Current Opinions in Chemical Biology
2015-2018	Adviser for 3-V Biosciences
2012-2019	Adviser for Abide Therapeutics
2011	Editor Special Issue for Biochimica Biophysica Acta (Lipids in Cancer)

Reviewer for: Cell, Molecular Cell, Cell Chemical Biology, Cell Metabolism, Cell Reports, Chemical Neurosciences, Chemical Reviews, Nature, Nature Chemical Biology, Nature Cell Biology, Chemical Sciences, PNAS, Biochimica et Biophysica Acta, Journal of the American Chemical Society, Nature Structural and Molecular Biology, Journal of Lipid Research, Journal of Clinical Investigation, Cancer and Metabolism, Molecular and Cellular Proteomics, ACS Chemical Biology, ACS Central Science, Journal of Biological Chemistry, eLife, Nature Chemistry

Teaching

Fall 2021	UC Berkeley Instructor for Freshman Seminar on: Chemical Biology as an Engine for Drug Discovery (Chem 24)
Fall 2021	UC Berkeley Instructor for
Spring 2021	UC Berkeley Instructor for Introduction to Toxicology (NST11)
Spring 2021	UC Berkeley Instructor for Research in Toxicology (NST193)
Fall 2020	UC Berkeley Instructor for Advanced Toxicology (NST110)
Spring 2020	UC Berkeley Instructor for Introduction to Toxicology (NST11)
Spring 2020	UC Berkeley Instructor for Research in Toxicology (NST193)
Spring 2020	UC Berkeley Instructor for Advanced Seminar in MCB (MCB290)
Fall 2019	UC Berkeley Instructor for Advanced Toxicology (NST110)
Fall 2018	UC Berkeley Instructor for Advanced Toxicology (NST110)
Spring 2018	UC Berkeley Instructor for Research in Toxicology (NST193)
Spring 2018	UC Berkeley Instructor for Introduction to Toxicology (NST11)

Fall 2017	UC Berkeley Instructor for Advanced Toxicology (NST110)
Spring 2017	UC Berkeley Instructor for Research in Toxicology (NST193)
Spring 2017	UC Berkeley Instructor for Introduction to Toxicology (NST11)
Fall 2016	UC Berkeley Instructor for Advanced Toxicology (NST110)
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Fall 2015	UC Berkeley Instructor for Advanced Toxicology (NST110)
Spring 2015	UC Berkeley Instructor for Introduction to Toxicology (NST11)
Spring 2015	UC Berkeley Instructor for Research in Toxicology (NST193)
Fall 2014	UC Berkeley Instructor for Advanced Toxicology (NST110)
Spring 2014	UC Berkeley Instructor for Introduction to Toxicology (NST11)
Fall 2013	UC Berkeley Instructor for Advanced Toxicology (NST110)
Spring 2013	UC Berkeley Instructor for Introduction to Toxicology (NST11)
Spring 2012	UC Berkeley Instructor for Graduate Research Colloquium (NST292)
Spring 2012	UC Berkeley Instructor for Graduate Seminar (NST290): Chemical Approaches to Study Metabolism
Fall 2011	UC Berkeley Instructor for Undergraduate Special Seminar (NST190): “-Omic Approaches to Study Metabolism”
Spring 2007	UC Berkeley Lecturer for Molecular Toxicology (NST120)
Fall 2006	UC Berkeley Co-Instructor and Graduate Student Instructor for Advanced Toxicology (NST110)
Spring 2006	UC Berkeley Guest Lecturer for Pesticide Chemistry and Toxicology (ESPM148)
Spring 2006	UC Berkeley Lecturer for Molecular Toxicology (NST120)

Publications

2021

1. Henning NJ, Boike L, Spradlin JN, Ward CC, Belcher B, Brittain SM, Hesse M, Dovala D, McGregor LM, McKenna JM, Tallarico JA, Schirle M, **Nomura DK** (2021) Deubiquitinase-targeting chimeras for targeted protein stabilization. *BioRxiv*, 441959
2. Henning NJ*, Manford AG*, Spradlin JN, Brittain SM, McKenna JM, Tallarico JA, Schirle M, Rape M#, **Nomura DK**# (2021) Discovery of a covalent FEM1B recruiter for targeted protein degradation applications. *BioRxiv*, 439993. (*co-first authorship; #co-corresponding authorship)
3. Kilinc S, Paisner R, Camarda R, Gupta S, Momcilovic O, Kohnz RA, L'Etoile ND, Perera RM, **Nomura DK**, Goga A (2021) Oncogene regulated release of extracellular vesicles. In press at *Developmental Cell*.
4. Spradlin JN, Zhang E, **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. *Accounts of Chemical Research*. <https://doi.org/10.1021/acs.accounts.1c00065>.
5. Luo M*, Spradlin JN*, Boike L, Tong B, Brittain SM, McKenna JM, Tallarico JA, Schirle M, Maimone TJ#, **Nomura DK**#. (2021) Chemoproteomics-enabled ligand discovery of covalent RNF114-based degraders that mimic natural product function. *Cell Chemical Biology* doi.org/10.1016/j.chembiol.2021.01.005. (*co-first authorship, # co-corresponding authorship)
6. Boike L*, Cioffi AG*, Majewski FC, Co J, Henning NJ, Jones MD, Liu G, McKenna JM, Tallarico JA, Schirle M, **Nomura DK**. (2021) Discovery of a functional covalent ligand targeting an intrinsically disordered cysteine within MYC. *Cell Chemical Biology* 28, 4-13. PMID 32966806 (*co-first authorship)
7. Timblin GA, Tharp KM, Ford B, Winchenster JM, Wang J, Zhu S, Khan RI, Louie SK, Iavarone AT, ten Hoeve J, **Nomura DK**, Stahl A, Saijo K (2021) Mitohormesis reprograms macrophage metabolism to enforce tolerance. *Nature Metabolism*. In press.
8. Moldavski O, Zushin P-JH, Berdan CA, Van Eijkeren RJ, Jiang X, Qian M, Ory DS, Covey SF, **Nomura DK**, Stahl A, Weiss EJ, Zoncu R (2021) 4 β -hydroxycholesterol is a pro-lipogenic factor that promotes SREBP1c expression and activity through Liver X-receptor. *Journal of Lipid Research*, 62, 100051. PMID 33631213
9. Cho H, Shen Q, Zhang LH, Okumura M, Kawakami A, Ambrose J, Sigoillot F, Miller HR, Gleim S, Cobos-Correa A, Wang Y, Piechon P, Roma G, Eggiman F, Moore C, Aspesi Jr. P, Mapa FA, Burks H, Ross NT, Krastel P, Hild M, Maimone TJ, Fisher DE, **Nomura DK**, Tallarico JT, Canham SM, Jenkins JL, Forrester WC (2021) CYP27A1 dependent anti-melanoma activity of limonoid natural products targets mitochondrial metabolism. *Cell Chemical Biology*. 30, S2451-9456(21)00143-4. Doi:10.1016/j.chembiol.2021.03.004. PMID 33794192

10. Tomic I, Heppler LN, Egusquiaguirre SP, Boehnke N, Correa S, Costa DF, Grossman EA, Pal S, Richardson D, Ivanov AR, Haas-Kogan DA, **Nomura DK**, Hammond PT, Frank DA (2021) Lipidome-based targeting of STAT3-driven breast cancer cells using poly-L-glutamic acid-coated layer-by-layer nanoparticles. *Molecular Cancer Therapeutics* doi:10.1158/1535-7163.MCT-20-0505. PMID 33536189

2020

11. Isobe Y, Okumura M, White R, McGregor LM, Brittain SM, Jones MD, Liang X, White R, Forrester W, McKenna JM, Tallarico JA, Schirle M, Maimone TJ*, **Nomura DK*** (2020) Manumycin polyketides act as molecular glues between UBR7 and P53. *Nature Chemical Biology* 16, 1189-1198. PMID 3257277 (*co-corresponding author)
12. Tong B*, Spradlin JN*, Novaes LFT, Zhang E, Hu X, Moeller M, Brittain SM, McGregor LM, McKenna JM, Tallarico JA, Schirle M, Maimone TJ#, **Nomura DK#**. (2020) A nimbolide-based kinase degrader preferentially degrades oncogenic BCR-ABL. *ACS Chemical Biology* 15, 1788-1794. PMID 32568522 (*co-first authorship; # co-corresponding authorship)
13. Tong B*, Luo M*, Xie Y, Spradlin JN, Tallarico JA, McKenna JM, Schirle M, Maimone TJ#, **Nomura DK#**. (2020) Bardoxolone Conjugation Enables Targeted Protein Degradation of BRD4. *Scientific Reports* 10, 15543. PMID 32968148 (*co-first authorship; # co-corresponding authorship)
14. Manford AG, Rodriguez-Perez F, Shih KY, Shi Z, Berdan CB, Choe M, Titov DV, **Nomura DK**, Rape M (2020) A cellular mechanism to detect and alleviate reductive stress. *Cell* 183, 46-61. PMID 32941802
15. Sponton CH, Hosonoro T, Taura J, Jedrychowski MP, Yoneshiro T, Wang Q, Takahashi M, Matsui Y, Ikeda K, Oguri Y, Tajima K, Shinoda K, Pradham R, Chen Y, Brown Z, Roberts LS, Ward CC, Taoka H, Yokohama Y, Watanabe M, Karasawa H, **Nomura DK**, Kajimura S (2020) The regulation of glucose and lipid homeostasis via PLTP as a mediator of BAT-liver communication. *EMBO Reports* 21, e49828. PMID 32672883
16. Ibars M, Maier MT, Yulyaningsih E, Perez L, Cheang R, Vihelmsson A, Louie SM, Wegner SA, Yuan X, Eltzschig HK, Hopf FW, **Nomura DK**, Koliwad SK, Xu AW (2020) Neuronal modulation of hepatic lipid accumulation induced by binge-like drinking. *American Journal of Physiology: Endocrinology and Metabolism* 318, E655-E666. PMID 32045262
17. Coles GL, Cristea S, Webber JT, Levin RS, Moss SM, He A, Sangodkar J, Hwang YC, Arand J, Drainas AP, Mooney NA, Demeter J, Spradlin JN, Mauch B, Le V, Shue YT, Ko JH, Lee MC, Kong C, **Nomura DK**, Ohlmeyer M, Swaney DL, Korgan N, Jackson PK, Narla G, Gordan JD, Shokat K, Sage J (2020) Unbiased proteomic profiling uncovers a targetable GNAS/PKA/PP2A axis in small cell lung cancer stem cells. *Cancer Cell* DOI: 10.1016/j.ccell.2020.05.003. PMID 32521271

2019

18. Chung CY-S*, Shin HR*, Berdan CA, Ford B, Ward CC, Olzmann JA, Zoncu R#, **Nomura DK#** (2019) Covalent targeting of the vacuolar H⁺-ATPase activates autophagy via mTORC1 inhibition. *Nature Chemical Biology* 15, 776-785. PMID 31285595 (*co-first authorship; #co-corresponding authorship)
19. Spradlin JN, Hu X, Ward CC, Brittain SM, Jones MD, Ou L, To M, Proudfoot A, Ornelas E, Woldegiorgis M, Olzmann JA, Bussiere DE, Thomas JR, Tallarico JA, McKenna JM, Schirle M, Maimone TJ*, **Nomura DK*** (2019) Harnessing the anti-cancer natural product nimbolide for targeted protein degradation. *Nature Chemical Biology* 15, 747-755. PMID 31209351 (*co-corresponding authors)
20. Ward CC, Kleinman JI, Chung CYS, Kim K, Petri Y, Lee PS, Thomas JR, Tallarico JA, McKenna JM, Schirle M, **Nomura DK** (2019) Covalent ligand screening uncovers a RNF4 E3 ligase recruiter for targeted protein degradation applications. *ACS Chemical Biology* 14, 2430-2440. PMID 31059647
21. Berdan CA, Ho R, Lehtola HS, To M, Hu X, Huffman TR, Petri Y, Altobelli CR, Demeulenaere SG, Olzmann JA, Maimone TJ*, **Nomura DK*** (2019) Parthenolide covalently targets and inhibits focal adhesion kinase in breast cancer cells. *Cell Chemical Biology* 26, 1027-1035. PMID 31080076 (*co-corresponding authorship)
22. Ah Yong V, Berdan CA, Burke TP, **Nomura DK**, Welch MD (2019) A metabolic dependency for host isoprenoids in the obligate intracellular pathogen *Rickettsia parkeri* underlies a sensitivity to the statin class of host-targeted therapeutics. *mSphere* 4 (6), e00536-19.
23. Bersuker K, Hendricks J, Li Z, Magtanong L, Ford B, Tang PH, Roberts MA, Tong B, Maimone TJ, Zoncu R, Bassik MC, **Nomura DK**, Dixon SJ, Olzmann JA (2019) The CoQ oxidoreductase FSP1 acts parallel to GPX4 to inhibit ferroptosis. *Nature* <https://doi.org/10.1038/s41586-019-1705-2>.

24. Lim C-Y, Davis O, Shin H, Zhang J, Berdan CB, Jiang X, Counihan JL, Ory D, Nomura DK, Zoncu R (2019) ER-lysosome contacts enable cholesterol sensing by mTORC1 and drive aberrant growth signaling in Niemann-Pick type C. *Nature Cell Biology* <https://doi.org/10.1038/s41556-019-0391-5>.
25. Lee K, Yesilkamal AE, Wynne JP, Frakenberger C, Liu J, Yan J, Elbaz M, Rabe DC, Rustandy FD, Tiwari P, Grossman EA, Hart PC, Kang C, Sanderson SM, Andrade J, **Nomura DK**, Bonini MG, Locasale JW, Rosner MR (2019) Effective breast cancer combination therapy targeting BACH1 and mitochondrial metabolism. *Nature* 568, 254-258. PMID 30842661
26. Watt MJ, Clark AK, Selth LA, Haynes VR, Lister N, Rebello R, Porter LH, Niranjana B, Whitby ST, Lo J, Huang C, Schittenhelm RB, Anderson KE, Furic L, Wijayarathne PR, Matzaris M, Montgomer MK, Pargargiris M, Norden S, Febbraio M, Risbridger GP, Frydenberg M, **Nomura DK**, Taylor RA. (2019) Suppressing fatty acid uptake has therapeutic effects in preclinical models of prostate cancer. *Science Translational Medicine* doi: 10.1126/scitranslmed.aau5758. PMID 3078288
27. Herber CB, Krause WC, Wang L, Bayrer JR, Li A, Schmitz M, Fields A, Ford B, Zhang Z, Reid MS, **Nomura DK**, Nissenson RA, Correa SM, Ingraham HA (2019) Estrogen signaling in arcuate *Kiss1* neurons suppresses a sex-dependent female circuit promoting dense strong bones. *Nature Communications*, 10, 163. PMID 30635563
28. Magtanong L, Ko P-J, To M, Cao JY, Tarangelo AN, Ward CC, Cho KY, Patti GJ, **Nomura DK**, Olzmann JA, Dixon SJ (2019) Exogenous monounsaturated fatty acids suppress non-apoptotic cell death. *Cell Chemical Biology* doi: 10.1016/j.chembiol.2018.11.016. PMID 30686757
29. Stazi G, Battistelli C, Piano V, Mazzone R, Marrocco B, Marchese S, Louie SM, Zwergel C, Antonini L, Patsilinos A, Ragno R, Viviano M, Sbardella G, Ciogli A, Fabrizi G, Cirilli R, Strippoli R, Marchetti A, Tripodi M, **Nomura DK**, Mattevi A, Mai A, Valente S (2019) Development of alky glycerone phosphate synthase inhibitors: Structure-activity relationship and effects on ether lipids and epithelial-to-mesenchymal transition in cancer cells. *European Journal of Medicinal Chemistry* 163, 722-735. PMID 30576903
30. Volkmar N, Thezenas M-L, Louie SM, Juszkiwicz S, **Nomura DK**, Hegde RS, Kessler BM, Christianson JC (2019) The ER membrane protein complex (EMC) promotes biogenesis of sterol-related enzymes maintaining cholesterol homeostasis. *Journal of Cell Science*. 132, pii:jcs223453. PMID 30578317

2018

31. **Nomura DK** (2018) Virtual Issue on the Work of John Casida. *Chemical Research in Toxicology* 31, 637-638. PMID 30080400
32. **Nomura DK*** and Maimone TJ*. (2018) Target identification of bioactive covalently-acting natural products. *Current Topics in Microbiology and Immunology* 420, 351-374. PMID 30105423 (*co-corresponding authorship)
33. Counihan JL*, Wiggenshorn A*, Anderson KE, **Nomura DK**. (2018) Chemoproteomics-enabled covalent ligand screening reveals ALDH3A1 as a lung cancer target. *ACS Chemical Biology* 13, 1970-1977. (*co-first authors) PMID 300004670
34. Counihan JL, Grossman EA, **Nomura DK**. (2018) Cancer metabolism: current understanding and therapies. *Chemical Reviews* 118, 6893-6923. PMID 29939018
35. Long JZ, Roche AM, Berdan CA, Louie SM, Roberts AJ, Svensson KJ, Dou FY, Bateman LA, Mina AI, Deng Z, Jedrychowski MP, Lin H, Kamenecka T, Asara JM, Griffin PR, Banks AS, **Nomura DK**, Spiegelman BM. (2018) Ablation of PM20D1 reveals N-acyl amino acid control of metabolism and nociception. *Proceedings of the National Academy of Sciences, U.S.A.* 115, E6937-E6945. PMID 29967167
36. Fernandez RF, Kim SQ, Zhao Y, Foguth RM, Weera MM, Counihan JL, **Nomura DK**, Chester JA, Cannon JR, Ellis JM (2018) Acyl-CoA synthetase 6 enriches the neuroprotective omega-3 fatty acid DHA in the brain. *Proceedings of the National Academy of Sciences, U.S.A.* 115, 12525-12530. PMID 30327559
37. Zhou M, Ford B, Lee D, Huen K, Tran Y, Bradman A, Gunier R, Eskenazi B, **Nomura DK**, Holland NT (2018) Metabolomic markers of phthalate exposure in plasma and urine of pregnant women. *Frontiers in Public Health* 6, 298. PMID 30406068
38. Wallace M, Green CR, Roberts LS, Lee YM, McCarville J, Sanchez-Gurmaches J, Meurs N, Gengatharan JM, Hover J, Phillips SA, Ciaraldi TP, Guertin DA, Cabrales P, Ayres JS, **Nomura DK**, Loomba R, Metallo CM (2018) Enzyme promiscuity drives branched-chain fatty acid synthesis in adipose tissue. *Nature Chemical Biology* 14, 1021-1031. PMID 30327559

39. Van Daltsen KM, Hodapp S, Keskin A, Otto GM, Berdan CA, Higdon A, Cheunkarndee T, **Nomura DK**, Jovanovic M, Brar GA. (2018) Global proteome remodeling during ER stress involves Hac1-driven expression of long undecoded transcript isoforms. *Developmental Cell* 46, 219-235. PMID 30016623
40. Tam AB, Roberts LS, Chandra V, Rivera IG, **Nomura DK**, Forbes DJ, Niwa M. (2018) The UPR activator ATF6 responds to proteotoxic and lipotoxic stress by distinct mechanisms. *Developmental Cell* 46, 327-343. PMID 30086303
41. Patra KC, Kato Y, Mizukami Y, Widholz S, Boukhali M, Revenco I, Grossman EA, Ji F, Sadreyev RI, Liss AS, Screatton RA, Sakamoto K, Ryan DP, Mino-Kenudson M, Fernandez-del Castillo C, **Nomura DK**, Haas W, Bardeesy N. (2018) Mutant GNAS drives pancreatic tumorigenesis by inducing PKA-mediated SIK suppression and reprogramming lipid metabolism. *Nature Cell Biology* 20, 811-822. PMID 29941929
42. Maier MT, Vilhelmsson A, Louie SM, Vagena E, **Nomura DK**, Koliwad SK, Xu AW. (2018) Regulation of hepatic lipid accumulation and distribution by Agouti-relation protein in male mice. *Endocrinology* 159, 2408-2420. PMID 29750244
43. Lin H, Long JZ, Roche AM, Svensson KJ, Dou F, Chang MR, Srutzenberg T, Ruiz C, Cameron MD, Novick SJ, Berdan CA, Louie SM, **Nomura DK**, Spiegelman BM, Griffin PR, Kamenecka TM. (2018) Discovery of hydrolysis-resistant isoindoline N-acyl amino acid analogs that stimulate mitochondrial respiration. *Journal of Medicinal Chemistry* 61, 3224-3230. PMID 29533650
44. Tomin T, Fritz K, Gindlhuber J, Waldherr L, Pucher B, Thallinger GG, **Nomura DK**, Schittmayer M, Birner-Gruenberger R. (2018) Deletion of adipose triglyceride lipase links triacylglycerol accumulation to a more aggressive phenotype in A549 lung carcinoma cells. *Journal of Proteome Research* 17, 1415-1425. PMID 29457907
45. Prasse C, Ford B, **Nomura DK**, Sedlak DL. (2018) Unexpected transformation of dissolved phenols to toxic dicarbonyls by hydroxyl radicals and UV light. *Proceedings of the National Academy of Sciences, USA*. 115, 2311-2316. PMID 29463747
46. Nnadi CI, Jenkins ML, Gentile DR, Bateman LA, Zaidman D, Ballus TE, **Nomura DK**, Burke JE, Shokat KM, London N. (2018) Novel K-Ras G12C switch-II covalent binders destabilize Ras and accelerate nucleotide exchange. *Journal of Chemical Information and Modeling* 57, 464-471. PMID 29320178
47. Gibeaux R, Acker R, Kitaoka M, Georgiou G, van Kruijsbergen I, Ford B, Marcotte EM, **Nomura DK**, Kwon T, Veenstra GJC, Heald R. (2018) Paternal chromosome loss and metabolic crisis contribute to hybrid inviability in *Xenopus*. *Nature* 553, 337-341. PMID 29320479
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2017

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Patents

1. **Nomura DK**, Henning NJ, Spradlin JN, Ward CC, McKenna JM, Schirle M, Tallarico JA, Hesse M, Dovala D. Deubiquitinase Targeting Chimeras and Related Methods. Provisional patent application filed.
2. Rape M, **Nomura DK**, Henning N, Manford A. FEM1B protein binding agents and uses thereof. PCT application filed.
3. **Nomura DK**, Cioffi A, Schirle M, Boike L, Tallarico JA, McKenna JM, Liu G. MYC inhibitors and uses thereof. Provisional patent application filed.
4. **Nomura DK**, Zoncu R, Chung YSC, Shin H, Canham S. mTORC1 inhibitors for Activating autophagy. PCT application WO2020146779.
5. **Nomura DK**, Roberts AM, Bateman LA, Miyamoto DK, Huffman TR, Ward CC. Compositions and methods for modulating UBA5. PCT application WO2018144869A1.
6. **Nomura DK**, Zoncu R, Roberts AM, Cho, KF, Chung YSC, Shin J, Croze B. mTORC1 modulators; US20190112268A1.
7. **Nomura DK**, Zoncu R, Ward C, Fung SK, Varma CK, Fontaine B. Methods and compounds for targeted autophagy. PCT Application WO2019183600A1.
8. Spradlin J, Ward CC, **Nomura DK**, Schirle M, Tallarico JA, McKenna JM, Maimone TJ, Hu X. Covalent targeting of E3 ligases. PCT Application WO2020076996A1.
9. **Nomura DK**, Anderson KE. Thioredoxin modulators and uses thereof. PCT application WO2018175958A1.
10. **Nomura DK**, Roberts LS, Ward CC. Compositions for treating breast cancer. PCT WO2018148598A1.
11. **Nomura DK**, Grossman EA, Ward CC, Bateman LA, Huffman TR, Miyamoto DK, Spradlin JL. Compositions and methods for modulating ppp2r1a. US20200054651A1.
12. **Nomura DK**, Olzmann JA, Bateman LA, Nguyen TB, Miyamoto DK, Huffman TR, Roberts AM. Compositions and methods for inhibiting Reticulon 4. PCT application WO2018144870A8.
13. Bachovchin D, Chang JW, Cravatt BF, Li W, Moellering RE, **Nomura DK**. Anti-cancer serine hydrolase inhibitory carbamates. US9249128B2.
14. Cravatt BF, Long JZ, Li W, **Nomura DK**. Methods and Compositions Related to Targeting Monoacylglycerol Lipase. US8772318B2.

Abstracts/meetings/invited talks

1. Invited Speaker: **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. Helmholtz Drug Discovery Conference Speaker
2. Invited Speaker: **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. Rutgers University seminar speaker
3. Invited Speaker: **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. North American Protein Degradation Congress meeting, Virtual
4. Invited Speaker: **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. Targeted Protein Degradation & PROTAC symposium, Virtual
5. Invited Speaker: **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. Stanford University, Department of Chemistry, Virtual
6. Invited Speaker: **Nomura DK** (2021) Reimagining Druggability using Chemoproteomic Platforms. SLAS International Conference, Virtual
7. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. UCSF Cancer Center, Virtual
8. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Dana Farber Cancer Center Targeted Protein Degradation Seminar Series, Virtual
9. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Janssen, Virtual
10. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Oregon Health Sciences University, Virtual
11. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. 3rd Annual Targeted Protein Degradation Meeting, Virtual

12. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. 18th Annual Discovery on Target Conference, Virtual
13. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Northwestern University Department of Chemistry, Virtual
14. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Pfizer, Virtual
15. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Transcription Factor Drug Development Conference, Virtual
16. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Seminar at Cygnal Therapeutics, Virtual
17. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. Natural Products Symposium at the New York Academy of Sciences, Virtual
18. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. North American Targeted Degradation Summit. San Diego, CA.
19. Invited Speaker: **Nomura DK** (2020) Reimagining Druggability using Chemoproteomic Platforms. The Mark Foundation for Cancer Research Induced Proximity Meeting, New York, New York
20. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. MIT/Broad Institute Chemical Biology seminar series, Cambridge, MA
21. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Seminar at Calico, South San Francisco, CA
22. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. California Institute of Technology Chemical Biology seminar series, Pasadena, CA
23. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. UT San Antonio, San Antonio, TX.
24. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Harvard University Chemistry and Chemical Biology seminar speaker, Cambridge, MA
25. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Memorial Sloan Kettering Cancer Center, New York, NY.
26. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Bayer Life Science Workshop: Chemical Biology—Jointly Exploring New Frontiers, Berlin, Germany
27. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. 2nd Targeted Protein Degradation Summit meeting, Boston, MA
28. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Northwestern University, Chicago, IL.
29. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. American Chemical Society meeting, Targeted Protein Degradation session, San Diego, CA.
30. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Janssen Pharmaceuticals seminar speaker, Springhouse, Pennsylvania.
31. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Targeted Drug Discovery Summit, Boston, MA.
32. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. 60th International Conference on the Biosciences of Lipids, Tokyo, Japan.
33. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Bioorganic Chemistry Gordon Research Conference, Andover, NH.
34. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Novartis Institutes for BioMedical Research, Basel, Switzerland.
35. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. European Targeted Protein Degradation meeting, Basel, Switzerland
36. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Cayman Chemical Biology Symposium at the University of Michigan, Ann Arbor, Ann Arbor, MI.
37. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Yale Chemical Biology symposium, New Haven, CT.
38. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. World Molecular Engineering Network meeting, Cabo San Lucas, Mexico.
39. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. American Cancer Society meeting, Orlando, FL.

40. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Structural Genomics Consortium Targeted Protein Degradation meeting, Toronto, CA.
41. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Mark Foundation for Cancer Research Symposium, New York, NY.
42. Invited Speaker: **Nomura DK** (2019) Reimagining Druggability using Chemoproteomic Platforms. Medicinal and Bioorganic Chemistry Foundation meeting, Steamboat, CO.
43. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. 1st Targeted Protein Degradation Summit meeting, Boston, MA
44. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. Merck and Co. Organic Chemistry Seminar Series, Kenilworth, NJ.
45. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. Caltech Department of Chemistry, Pasadena, California.
46. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. EMBO Enzymes and Catalysis meeting, Pavia, Italy.
47. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. City of Hope Research Institute, Los Angeles, CA
48. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. Structural Genomics Consortium on Target 2035. Berlin, Germany
49. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. BASF Metanomics, Berlin, Germany
50. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. Pharmaron, Beijing, China.
51. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. BASF-CARA Symposium, Santa Barbara, CA.
52. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. Cambridge Healthtech Institute's 17th Annual World Preclinical Congress, Boston, MA.
53. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. ACS National Medicinal Chemistry Symposium, Nashville, TN.
54. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. Merck, South San Francisco, CA.
55. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. 2018 San Antonio Drug Discovery Symposium, San Antonio, TX.
56. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. AACR meeting, Chicago, IL.
57. Invited Speaker and Session Chair: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. ASBMB meeting, San Diego, CA.
58. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. Agios, Cambridge, MA.
59. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. Astrazeneca, Waltham, MA.
60. Invited Speaker: **Nomura DK** (2018) Redefining Druggability and Toxicology using Chemoproteomic Platforms. University of California, Riverside, Riverside, CA.
61. Invited Speaker: **Nomura DK** (2018) Redefining Druggability using Chemoproteomic Platforms. Tumor Metabolism Keystone meeting, Snowbird, Utah.
62. Invited Speaker: **Nomura DK** (2017) Redefining Toxicology and Druggability using Chemoproteomic Platforms. Superfund Research Program meeting, Philadelphia, Pennsylvania.
63. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. Tufts University Medical School, Boston, MA.
64. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. University of Virginia, Charlottesville, VA.
65. Invited Speaker and Wendell Griffith Lecturer: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. St Louis University, St. Louis, MO.
66. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. AACR Advances in Breast Cancer Meeting, Hollywood, CA.
67. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. Austrian Proteomics Association meeting, Graz, Austria.

68. Invited Speaker: **Nomura DK** (2017) Chemoproteomic Platforms for Mapping Druggable Hotspots in Disease. Enzymes, Coenzymes, & Metabolic Pathways Gordon Conference. Waterville Valley, NH.
69. Invited Speaker: **Nomura DK** (2017) Chemoproteomic and Metabolomic Platforms for Mapping Drivers of Disease. American Diabetes Association meeting. San Diego, CA.
70. Invited Speaker: **Nomura DK** (2017) Chemoproteomic Platforms for Mapping Druggable Hotspots in Disease. Royal Society of Chemistry Chemical Biology Symposium. London, UK.
71. Invited Speaker: **Nomura DK** (2017) Chemoproteomic Platforms for Mapping Druggable Hotspots in Disease. World Molecular Engineering Network conference, San Jose Del Cabo, Mexico.
72. Invited Speaker: **Nomura DK** (2017) Using Chemoproteomic and Metabolomic Platforms to Map Drivers of Human Disease, UCSF Breast Oncology Program Seminar, San Francisco, CA.
73. Invited Speaker: **Nomura DK** (2017) Using Chemoproteomic and Metabolomic Platforms to Map Drivers of Human Disease, Cold Spring Harbor Laboratory, Chemistry and Metabolism Symposium, Cold Spring Harbor, NY.
74. Invited Speaker: **Nomura DK** (2017) Using Chemoproteomic and Metabolomic Platforms to Map Drivers of Human Disease, Johns Hopkins Medical School, Department of Biological Chemistry, Baltimore, Maryland.
75. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, The University of Sydney Charles Perkin Centre, Sydney, Australia.
76. Keynote Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Third Australian Lipids Meeting, Melbourne, Australia.
77. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, University of Georgia, Athens, Georgia.
78. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, UCSD Metabolomics Symposium, La Jolla, CA.
79. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Oregon Health State University, Portland, Oregon.
80. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Amgen South San Francisco, CA
81. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Vanderbilt University Chemical Biology Seminar Series, Nashville, Tennessee.
82. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Toxicology and Drug Discovery GETA (Genetic and Environmental Toxicology Association) Symposium, Oakland, CA.
83. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. Gilead Medicinal Chemistry Seminar Series, Foster City, CA.
84. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. Gordon Conference on Bioorganic Chemistry, New Hampshire.
85. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. AACR National Meeting, New Orleans, Louisiana.
86. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. University of Pavia, Italy.
87. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Medical University of Graz, Graz, Austria.
88. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Keystone Science Lecture Speaker at National Institutes for Environmental Health Sciences, Research Triangle Park, North Carolina.
89. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Cleveland Clinic, Cleveland, Ohio.
90. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Purdue University, Department of Nutrition, Indiana.
91. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCLA, Los Angeles, California.
92. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. University of Wisconsin, Madison Department of Biochemistry, Madison, Wisconsin.
93. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCSF Cancer Center, San Francisco, CA

94. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCSF Endocrinology, San Francisco, CA
95. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCSD Bioengineering Department, La Jolla, CA
96. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Dana Farber Cancer Institute, Boston, Massachusetts.
97. Invited Keynote Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. Molecular and Cell Biology of Lipids Gordon Conference, Waterville Valley, New Hampshire.
98. Poster Presenter: **Nomura DK** (2015) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. High Throughput Chemistry and Chemical Biology Gordon Conference, New London, New Hampshire.
99. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. AACR Metabolism and Cancer meeting, Bellevue, Washington.
100. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Lipid Maps Meeting 2015, La Jolla, CA.
101. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, Dana Farber/Harvard Medical School, Boston, MA.
102. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, Searle Meeting, Chicago, IL.
103. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, University of Chicago, Chicago, IL.
104. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Lipid Metabolism in Disease using Chemoproteomic and Metabolomic Platforms, RIKEN, Yokohama, Japan.
105. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Lipid Metabolism in Disease using Chemoproteomic and Metabolomic Platforms, Phospholipase Meeting, Tokyo, Japan.
106. Seminar speaker: **Nomura DK** (2014) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology, UC Berkeley, Nutritional Sciences and Toxicology Department
107. Poster/Talk: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Gordon Conference, Coenzymes, and Metabolic Pathways, Waterville Valley, NH.
108. Invited Speaker: **Nomura DK** (2014) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology, Genentech, South San Francisco, CA Investigative Toxicology Division
109. Poster: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Searle Scholars Meeting, Chicago, IL.
110. Invited Speaker: **Nomura DK** (2014) Mapping Dysregulated Lipid Metabolism in Cancer using Chemoproteomic and Metabolomic Platforms, ASBMB meeting, San Diego, CA.
111. Invited Speaker: **Nomura DK** (2014) Mapping Dysregulated Lipid Metabolism in Cancer using Chemoproteomic and Metabolomic Platforms, Keystone Meeting on Tumor Metabolism, Whistler, Canada.
112. Invited Speaker: **Nomura DK** (2014) Validating Monoacylglycerol Lipase Inhibitors in Combatting Parkinson's Disease, Michael J Fox Foundation, New York, NY.
113. Invited Seminar Speaker: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, Karolinska Institute, Stockholm, Sweden.
114. Invited Seminar Speaker: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, University of Pavia, Pavia, Italy.
115. Invited Seminar Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, Novartis, Cambridge, MA.
116. Invited Seminar Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, UC Merced, Merced, CA.
117. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates eicosanoids that promote inflammation. Bioactive Lipids in Cancer, Inflammation, and Related Diseases meeting, San Juan, Puerto Rico—received Eicosanoids Research Foundation Young Investigator Award.
118. Keynote Speaker: **Nomura DK** (2013) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology. NorCal Society of Toxicology meeting, South San Francisco, CA.

119. Invited Speaker: **Nomura DK** (2013) Mapping dysregulated metabolic pathways in disease using functional proteomic and metabolomic platforms. Symposium on Frontier Sciences on New Drug Discovery, Tsinghua University, Beijing, China.
120. Invited Speaker: **Nomura DK** (2013) Mapping dysregulated metabolic pathways in disease using functional proteomic and metabolomic platforms. Transatlantic Frontiers of Chemistry (TFOC) meeting, American Chemical Society, Kloster Seon, Germany.
121. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates eicosanoids that promote inflammation. Gordon conference Molecular and Cellular Biology of Lipids, New Hampshire, NJ
122. Poster: **Nomura DK** (2013) Mapping dysregulated metabolic pathways in cancer. Gordon conference bioorganic chemistry, New Hampshire, NJ.
123. Poster: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Searle Scholars Meeting, Chicago, IL.
124. Invited Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Functional Proteomic and Metabolomic Platforms. Seminar speaker at UC Berkeley, Department of Molecular and Cell Biology, Berkeley, CA
125. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. Seminar speaker at University of Minnesota, Minneapolis, MN.
126. Invited Speaker: **Nomura DK** (2012) Mapping dysregulated metabolic pathways in disease using functional proteomic and metabolomic platforms. Seminar speaker at Agilent, Santa Clara, CA.
127. Invited Speaker: **Nomura DK** (2012) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. Seminar speaker at Pfizer Neuroscience, Cambridge, MA.
128. Invited Speaker: **Nomura DK** (2012) Mapping Dysregulated Metabolic Pathways using Functional Chemoproteomic and Metabolomic Platforms. Seminar Speaker at Children's Hospital Oakland Research Institute, Oakland, CA.
129. Keynote Invited Speaker: **Nomura DK** (2012) Mapping dysregulated metabolic pathways in cancer using functional proteomic and metabolomic platforms. Austrian Proteomics Research Symposium, Graz, Austria.
130. Invited Speaker: **Nomura DK**. (2012) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. *International Cannabinoid Research Society* meeting, Freiberg, Germany.
131. Poster: **Nomura DK** and Samad TA (2012) Metabolomic profiling for mapping anti-inflammatory pathways in neurodegenerative disease. *Genetics and Chemistry Cell Symposium*, Cambridge, Massachusetts.
132. Invited Speaker: **Nomura DK** (2012) Endocannabinoid hydrolysis generates brain eicosanoids that promote neuroinflammation. *SciCafe* hosted by Nature Biotechnology and Nature Medicine at the Gladstone Institute, San Francisco, CA
133. Poster: **Nomura DK** and Cravatt BF (2011) Monoacylglycerol Lipase Exerts Bidirectional Control over Endocannabinoid and Fatty Acid Pathways to Support Prostate Cancer. Cancer Chemical Biology meeting sponsored by Nature Chemical Biology, Cambridge, Massachusetts.
134. Invited Speaker: **Nomura DK** (2011) Mapping dysregulated metabolic pathways in cancer using activity-based proteomics. American Chemical Society meeting, Denver, Colorado.
135. Invited Speaker: **Nomura DK**, Cravatt BF (2011) Mapping dysregulated metabolic pathways in cancer. American Association for Cancer Research meeting, Orlando, Florida.
136. Invited Speaker: **Nomura DK**, Long JZ, Cravatt BF, Casida JE. (2010) Annotating the role of monoacylglycerol lipase in cancer and in the brain. American Chemical Society meeting, San Francisco, California.
137. Invited Speaker: **Nomura DK**. (2009) Chemical Approaches to Annotating Toxicological and Biological Systems. University of California Toxic Substances & Teaching Program Symposium, Berkeley, California.
138. Poster: **Nomura DK**, Blankman JL, Simon GM, Cravatt BF, Casida JE. (2008) Maximal activation of the endocannabinoid system by organophosphorus nerve agents. University of California Toxic Substances Research & Teaching Program Symposium, Riverside, California.
139. Poster: **Nomura DK**, Casida JE. (2007) Acetyl monoalkylglycerol ether deacetylase: an organophosphate detoxifying enzyme and modulator of tumor growth. IXth Meeting on Cholinesterases, Souzhou, China.
140. Oral Presentation: **Nomura DK**, Durkin KA, Chiang KP, Quistad GB, Cravatt BF, Casida JE. (2006) Toxicological and Structural Features of KIAA1363: A Novel Detoxifying Enzyme for Organophosphorus Nerve Poisons. American Chemical Society meeting, San Francisco, CA.

141. Poster: **Nomura DK**, Leung D, Chiang KP, Quistad GB, Cravatt BF, Casida JE. (2005) A Brain Detoxifying Enzyme for Organophosphorus Nerve Poisons. American Chemical Society meeting, Washington, D.C.

Students/Researchers Supervised (w/ former and current position)

Name	Position in the lab	Current Position	
Xavier Tao (2021-current)	Undergraduate Researcher	PhD program at Stanford University	
Belen E. Altamirano Poblano (2021-current)	Undergraduate Researcher		
Maria Casique (2021-current)	Undergraduate Researcher		
Katelyn Randal (2021-current)	Undergraduate Researcher		
Anoohya Panidapu (2021-current)	Undergraduate Researcher		
Vienna Thomas (2020-current)	Graduate Student		
Ethan Toriki (2020-current)	Graduate Student		
Margot Meyers (2020-current)	Graduate Student		
Abigail Estes (2020-current)	Graduate Student		
Elizabeth King (2020-current)	Graduate Student		
Nafsika Forte (2020-current)	Postdoctoral Fellow		
James Papatzimas (2020-current)	Postdoctoral Fellow		
Matthew Cerda (2020-2021)	Postdoctoral Fellow		
Charlotte Zammit (2020-current)	Postdoctoral Fellow		
Qian Shao (2020-current)	Project Scientist		
Helen Bui (2020-current)	Undergraduate Researcher		
Yangzhi (Robby) Wang (2020-current)	Undergraduate Researcher		
Brian So (2019-current)	Undergraduate Researcher		Student at Northwestern University
Michelle Tang (2019-current)	Undergraduate Researcher		
Jennifer Co (2019-2021)	Undergraduate Researcher		
Erika Zhang (2019-current)	Undergraduate Researcher		
Lydia Zhang (2019-current)	Graduate Researcher		
Flor (Alicia) Gowans (2019-current)	Graduate Researcher		
Nathaniel Henning (2019-current)	Graduate Researcher		
Deirdre Willgohs (2018-2018)	Research Intern		
Reagan Kennedy (2018-2018)	Undergraduate Researcher		
Benjamin Fontaine (2018-current)	Postdoctoral Fellow	PhD program at UCSF PhD program at Boston College PhD program at Stanford University Research Specialist at Scribe Therapeutics	
Lydia Boike (2018-current)	Graduate Researcher		
Chad Altobelli (2018-2019)	Undergraduate Researcher		
Angela Xiong (2018-2019)	Undergraduate Researcher		
Felix Majewski (2018-2020)	Undergraduate Researcher		
Ross White (2018-2019)	Undergraduate Researcher		
Liam McCarthy (2018-2018)	Summer Intern		
Sarah Buzsaki (2018-2020)	Undergraduate Researcher		PhD program at Rice University Scientist at Hong Kong Jockey Club
May Fung (2018-2020)	Postdoctoral Fellow		
Sasha Demeulenaere (2018-2018)	Undergraduate Researcher		
Kenneth Kim (2017-2021)	Undergraduate Researcher		
Samantha Tang (2017-2020)	Administrative and Lab Assistant		
Christine Thatcher (2017-2018)	Undergraduate Researcher	Scientist at Lawrence Livermore National Laboratory	
Kyra Berger (2017-2018)	Undergraduate Researcher	Senior Scientist at RIKEN Assistant Professor at Hong Kong University	
Yosuke Isobe (2018-2020)	Postdoctoral Fellow		
Clive Yik Sham Chung (2017-2020)	Postdoctoral Fellow		

<p>Katherine Near (2017-2019) Alexander Cioffi (2017-2019) Lisha Ou (2017-2019) Linda Waldherr (2017-2017) Raymond Ho (2017-2018) Sage Geher (2017-2017)</p> <p>Mai Luo (2016-2020)</p> <p>Tamara Tomin (2016-2017) Alex Renn (2016-2017) Jordan Kleinman (2016-2019) Ashley Ives (2016-2017)</p> <p>Sultana Mojadidi (2016-2016) Jessica Spradlin (2016-2020) Carl Ward (2016-2020) Allison Roberts (2015-2018) Amanda Wiggenhorn (2016-2019) Joseph Hendricks (2016-2017) Anna Flury (2016-2016) Haley Lehtola (2016-2018)</p> <p>Yana Petri (2016-2019) Justin Wang (2016-2017) Ivan Atencio (2016-2017) Andrew Hong (2016-2016) Catherine Schneider (2015-2017) Catherine Cascavita (2015-2016) Elizabeth Grossman (2014-2019) Michelle Luu (2015-2017) Deepika Raghavan (2015-2016) Peter Yan (2015-2017) Kimberly Anderson (2015-2018) Melanie Hubbuck (2015-2017) Megan Duckering (2015-2016)</p> <p>Angela Yang (2015-2015)</p> <p>Charles Berdan (2014-2019)</p> <p>Wan-Min Ku (2014-2017) Derek Barbas (2014-2015) Leslie Bateman (2014-2016) Breanna Ford (2014-2019) Wallace Lowe (2014-2015) Tucker Huffman (2014-2017)</p> <p>Olivia Dibenedetto (2014-2014) Jeffrey Coleman (2014-2014) Lara Bideyan (2014-2015) Esha Dalvie (2013-2016) Daniel Li (2013-2015) Jessica Counihan (2013-2018)</p> <p>Sharon Zhong (2013-2015)</p>	<p>Postdoctoral Fellow Postdoctoral Fellow Undergraduate Researcher Visiting Grad Student Undergraduate Researcher Undergraduate Researcher</p> <p>Postdoctoral Fellow</p> <p>Visiting Grad Student Undergraduate Researcher Research Associate Undergraduate Researcher</p> <p>Undergraduate Researcher Graduate Researcher Graduate Researcher Graduate Researcher Research Associate Undergraduate Researcher Lab Assistant Undergraduate Researcher</p> <p>Research Associate Undergraduate Researcher Undergraduate Researcher Undergraduate Researcher Graduate Researcher Lab Manager Graduate Researcher Undergraduate Researcher Undergraduate Researcher Undergraduate Researcher Graduate Researcher Graduate Researcher Undergraduate Researcher</p> <p>Undergraduate Researcher</p> <p>Graduate Researcher</p> <p>Undergraduate Researcher Undergraduate Researcher Postdoctoral Fellow Graduate Researcher Undergraduate Researcher Undergraduate Researcher</p> <p>Undergraduate Researcher Undergraduate Researcher Undergraduate Researcher Undergraduate Researcher Undergraduate Researcher Graduate Researcher</p> <p>Undergraduate Researcher</p>	<p>Scientist at Nurix Scientist at Frontier Medicines PhD program at Stanford University</p> <p>Research Assistant at University of Utah Assistant Professor at China Agricultural University</p> <p>PhD program at UCSF PhD program at Northwestern University</p> <p>Genentech Postdoctoral Fellow F99/K00 Postdoc at UCSF Scientist at Frontier Medicines PhD program at Stanford University PhD program at UC Berkeley</p> <p>Medical student at Western University of Health Sciences PhD program at MIT</p> <p>Process Engineer at EXP</p> <p>PhD student at UC Berkeley Associate at Genentech Innovation Postdoc at Novartis Emergency Room Scribe at Vituity Medical Student at University of Iowa Medical Student at UCLA Scientist at Frontier Medicines PhD student at Washington University Senior Life Sciences Consultant at Guidehouse Research Assistant at Stanford University Associate Consultant with McKinsey and Company</p> <p>Senior Scientist at Celgene Postdoc at BASF</p> <p>Graduate Student at TSRI in Ryan Shenvi's lab Account Manager at Quantcast</p> <p>PhD student at UCLA PhD program at Vanderbilt University Postbac at NIH Consultant for ClearView Healthcare Partners</p>
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David Miyamoto (2013-2015)	Undergraduate Researcher	PhD program at Harvard University
Karl Fisher (2013-2014)	Associate Specialist	Director of Chemistry at Lygos
Lauryn Chan (2013-2014)	Undergraduate Researcher	Food Technologist at Beyond Meat
Lucky Ding (2013-2016)	Undergraduate Researcher	Medical Student at UCSF
Nivedita Keshav (2013-2014)	Undergraduate Researcher	Medical Student at UCLA
Ann Heslin (2013-2015)	Undergraduate Researcher	Associate Product Manager at Veeva
Chynna Tang (2013-2014)	Undergraduate Researcher	Graduate student in UC Berkeley Optometry Program
Yoav Azaria (2012-2014)	Undergraduate Researcher	Research Assistant at Genentech
Devon Hunerdosse (2012-2015)	Graduate Researcher	Senior Research Biologist at 3M
Lindsay Roberts (2012-2017)	Graduate Researcher	Senior Scientist, Nuredis Inc.
Ramandeep Dhillon (2012-2015)	Administrative and Lab Asst.	
Alice Shieh (2012-2013)	Undergraduate Researcher	Undergraduate at Duke University
Tara Narasimhalu (2012-2014)	Undergraduate Researcher	Medical Resident at UCLA
Rebecca Kohnz (2012-2016)	Postdoctoral Fellow	Senior Scientist at Merck
Patrick Morris (2012-2014)	Postdoctoral Fellow	Staff Scientist at NCI/NIH
Melinda Mulvihill (2012-2014)	Postdoctoral Fellow	Senior Scientist at Genentech
Alyssa Cozzo (2012-2013)	Undergraduate Researcher	Researcher in Mina Bissell Lab, LBNL
Daniel Medina-Cleghorn (2011-2015)	Graduate Researcher	Scientist at Nurix
Jay Andrew Cosme Barcelon (2011-2012)	Undergraduate Researcher	Strategic Market Access & Intelligence Analyst at XCenda
McKenna Green (2012-2014)	Undergraduate Researcher	Resident Physician at Detroit Medical Center
Daniel I Benjamin (2011-2015)	Graduate Researcher	Postdoc at Stanford in Tom Rando Lab
Sharon M Louie (2011-2017)	Graduate Researcher	Scientist at CohBar
Anayo Ohiri (2011-2013)	Undergraduate Researcher	Graduate Student at SF State
Jae Wong Chang (2009-2011)	Graduate Researcher	Postdoctoral Fellow at U. Chicago
Anna M. Ward (2004-2008, 2010)		Anesthesiology Resident at Harvard Medical School
Roger Issa (2004-2008)	Undergraduate Researcher	Principal Compliance Manager at Genentech
	Undergraduate Researcher	