



CURRICULUM VITAE

Daniel K. Nomura, Ph.D.

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Education

- May 2008 Ph.D. in Molecular Toxicology
University of California, Berkeley
- May 2003 B.A. in Molecular and Cell Biology
University of California, Berkeley

Positions

- 2017-current Director, Novartis-Berkeley Center for Proteomics and Chemistry Technologies
(NB-CPACT)
- 2017-current Founder, Artris Therapeutics
- 2016-current Associate Adjunct Professor
University of California, San Francisco
Department of Pharmaceutical Chemistry
- 2015-current Associate Professor (with tenure)
University of California, Berkeley
Department of Nutritional Sciences and Toxicology
Department of Chemistry
Department of Molecular & 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 an Associate Professor in the Departments of Chemistry, Molecular and Cell Biology, and Nutritional Sciences and Toxicology at the University of California, Berkeley. He is also an associate adjunct professor in the Department of Pharmaceutical Chemistry at UCSF and a member of the UCSF Helen Diller Family Comprehensive Cancer Center and the UCSF Breast Oncology Program. He directs the Novartis-Berkeley Center for Proteomics and Chemistry Technologies (NB-CPACT).

The Nomura Research Group is focused on developing and applying chemoproteomic platforms to drug the undruggable proteome to develop next-generation disease therapies. One of the greatest challenges that we face in discovering new disease therapies is that most proteins are considered “undruggable” or difficult to target with small-molecules. The Nomura Research Group addresses this challenge by developing chemoproteomic platforms to discover and pharmacologically target unique and novel therapeutic druggable hotspots for disease therapy.

Major Research Directions

1. Developing chemoproteomics-enabled covalent ligand discovery platforms to map and pharmacologically target druggable hotspots for disease therapy
2. Covalent ligand discovery against druggable hotspots targeted by natural products for disease therapy
3. Advancing chemoproteomic technologies to map and pharmacologically target druggable hotspots for targeted protein degradation
4. Using chemoproteomic platforms to map proteome-wide toxicological targets of environmental and pharmaceutical chemicals
5. Mapping metabolic drivers of cancer using chemoproteomic and metabolomic platforms to target critical metabolic nodes for cancer therapy

Awards and Fellowships

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| 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

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|--------------|--|
| 2017-current | Director, Novartis-Berkeley Center for Proteomics and Chemistry Technologies |
| 2017-current | Founder, Artris Therapeutics |
| 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 |

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| 2015-current | Adviser for 3-V Biosciences |
| 2015-current | Faculty in the Department of Chemistry (UC Berkeley) |
| 2012-current | Member of the Synthetic Biology Institute (UC Berkeley) |
| 2012-current | 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

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

Academic Services

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| 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-current | 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-current | Member, Undergraduate Affairs Committee for the Nutritional Sciences and Toxicology Department |
| 2011-current | Member, Molecular Toxicology Graduate Affairs Committee |

Professional Services

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| 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 | Study section ad hoc member for Cancer Drug Development & Therapeutics (CDDT) study section |
| 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 |
| 2011 | Editor Special Issue for Biochimica Biophysica Acta (Lipids in Cancer) |

Reviewer for: Cell, Molecular Cell, Cell Metabolism, Cell Reports, Chemical Neurosciences, Chemical Reviews, Nature, Chemical Sciences, PNAS, Biochimica et Biophysica Acta, Journal of the American Chemical Society, Nature Structural and Molecular Biology, Nature Cell 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, Cell Chemical Biology, eLife, Nature Chemistry

Teaching

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| 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 (NST111) |
| Fall 2016 | UC Berkeley Instructor for Advanced Toxicology (NST110) |
| Spring 2016 | UC Berkeley Instructor for Research in Toxicology (NST193) |
| Spring 2016 | UC Berkeley Instructor for Introduction to Toxicology (NST111) |
| Fall 2015 | UC Berkeley Instructor for Advanced Toxicology (NST110) |
| Spring 2015 | UC Berkeley Instructor for Introduction to Toxicology (NST111) |
| 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 (NST111) |
| Fall 2013 | UC Berkeley Instructor for Advanced Toxicology (NST110) |
| Spring 2013 | UC Berkeley Instructor for Introduction to Toxicology (NST111) |
| 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

2017

1. Gibeaux R, Acker R, Kitaoka M, Georgiou G, van Kruijsbergen I, Ford B, Marcotte EM, **Nomura DK**, Kwon T, Veenstra GJC, Heald R. (2017) Paternal chromosome loss and metabolic collapse result in *Xenopus* hybrid inviability. In press at *Nature*.
2. De Leon JA, Qiu J, Nicolai CJ, Counihan JL, Barry KC, Xu L, Lawrence RE, Castellano BM, Zoncu R, **Nomura DK**, Luo Z-Q, Vance RE. (2017) Positive and negative regulation of the master metabolic regulator mTORC1 by two families of *Legionella pneumophila* effectors. In press at *Cell Reports*.
3. Grossman E*, Ward CC*, Spradlin JN, Bateman LA, Huffman TR, Miyamoto DK, Kleinman JI, **Nomura DK**. (2017) Covalent ligand discovery against druggable hotspots targeted by anti-cancer natural products. *Cell Chemical Biology* doi:10.1016/j.chembiol.2017.08.013. PMID 28919038 (*co-first authorship)
4. Anderson KE, To M, Olzmann JA, **Nomura DK**. (2017) Chemoproteomics-enabled covalent ligand screening reveals a thioredoxin-caspase 3 interaction disruptor that impairs breast cancer pathogenicity. *ACS Chemical Biology* doi: 10.1021/acscchembio.7b00711. PMID 28892616
5. Chen T-C, Benjamin DI, Kuo T, Lee RA, Li M-L, Mar D, Costello DE, **Nomura DK**, Wang J-C. (2017) Glucocorticoid-Angiopoietin-like 4-Ceramide Axis induces insulin resistance. *Science Signaling* 10, eaai7905. PMID 28743803
6. Chomvong K, Benjamin DI, **Nomura DK**, Cate JH. Cellobiose consumption uncouples extracellular glucose sensing and glucose metabolism in *Saccharomyces cerevisiae*. *mBio* 8, e00855-17.
7. Nguyen TB, Louie SM, Daniele J, Tran Q, Dillin A, Zoncu R, **Nomura DK**, Olzmann JA. (2017) DGAT1-dependent lipid droplet biogenesis protects mitochondrial function during starvation-induced autophagy. *Developmental Cell* 42, 9-21. PMID 28697336
8. Ward CC, Kleinman J, **Nomura DK**. (2017) NHS-esters as versatile reactivity-based probes for mapping proteome-wide ligandable hotspots. *ACS Chemical Biology* 12, 1478-1483. PMID 28445029

9. Bateman LA[#], Nguyen TB[#], Roberts AM[#], Miyamoto DK, Ku W-M, Huffman TR, Heslin MJ, Contreras CM, Skibola CF, Olzmann JA*, **Nomura DK***. (2017) Chemoproteomics-enabled covalent ligand screen reveals a cysteine hotspot in Reticulon 4 that impairs ER morphology and cancer pathogenicity. *Chemical Communications* 53, 7234-7237. PMID 28352901 (#co-first authors; *co-corresponding author)
10. Roberts LS, Yan P, Bateman LA, **Nomura DK**. (2017) Mapping novel metabolic nodes targeted by anti-cancer drugs that impair triple-negative breast cancer pathogenicity. *ACS Chemical Biology* 12, 1133-1140. PMID 28248089
11. Bateman LA, Ku W-M, Heslin MJ, Contreras CM, Skibola CF, **Nomura DK**. (2017) ASS1 is an important metabolic regulator of colorectal cancer. *ACS Chemical Biology* 12, 905-911. PMID 28229591
12. Castellano, B.M., Thelen, A.M., Moldavski O, Feltes M, van der Welle R, Mydock-McGrane L, Jiang X, van Eijkeren RJ, Davis OB, Louie SM, Perera RM, Covey D, **Nomura DK**, Ory DS, Zoncu R. (2017) Lysosomal cholesterol activates mTORC1 via an SLC38A9-Niemann Pick C1 signaling complex. *Science* 355, 1306-1311. PMID 28336668
13. Roberts AM, Miyamoto DK, Huffman TR, Bateman LA, Ives AN, Akopian D, Heslin MJ, Contreras CM, Rape M, Skibola CF, **Nomura DK**. (2017) Chemoproteomic screening of covalent ligands reveals UBA5 as a novel pancreatic cancer target. *ACS Chemical Biology* 12, 899-904. PMID 28186401
14. Counihan JL, Duckering M, Dalvie E, Ku W-m, Bateman LA, Fisher KJ, **Nomura DK**. (2017) Mapping proteome-wide reactivity of the widely used herbicide acetochlor in mice. *ACS Chemical Biology* 12, 635-642. PMID 28094496
15. Whang MI, Taveras RM, Benjamin DI, Kattah MG, Advincula R, **Nomura DK**, Debnath J, Malynn BA, Ma A. (2017) The ubiquitin binding protein TAX1BP mediates autophagosome induction and the metabolic transition of activated T cells. *Immunity* 46, 405-420. PMID 28314591
16. Anderton B, Camarda R, Balkrishnan S, Balakrishnan A, Kohnz RA, Lim L, Evason KJ, Momcilovic O, Kruttwig K, Huang Q, Xu G, **Nomura DK**, Goga A. (2017) MYC-driven inhibition of the glutamate-cysteine ligase promotes glutathione depletion in liver cancer. *EMBO Report* 18, 569-585. PMID 28219903
17. Ford B, Bateman LA, Gutierrez-Palominos L, Park R, **Nomura DK**. (2017) Mapping proteome-wide targets of glyphosate in mice. *Cell Chemical Biology* 24, 133-140. PMID 28132892
18. Ruby MA, Massart J, Hunerdosse DM, Schonke M, Correia JC, Louie SM, Ruas JL, Naslund E, **Nomura DK**, Zierath JR. (2017) Human carboxylesterase 2 reverses obesity-induced diacylglycerol accumulation and glucose intolerance. *Cell Reports* 18, 636-646. PMID 28099843
19. Roberts AM, Ward CC, **Nomura DK**. (2017) Activity-based protein profiling for mapping and pharmacologically interrogating proteome-wide ligandable hotspots. *Current Opinion in Biotechnology* 43, 25-33. PMID 27568596
20. To M, Peterson CWH, Roberts MA, Counihan JL, Wu TT, Forster MS, **Nomura DK**, Olzmann JA. (2017) Lipid disequilibrium disrupts ER proteostasis by impairing ERAD substrate glycan trimming and dislocation. *Molecular Biology of the Cell* 28, 270-284. PMID 27881664

2016

21. Kim H-E, Grant AR, Simic MS, Kohnz RA, **Nomura DK**, Durieux J, Riera CE, Sanchez M, Kapernick E, Wolff Suzanne, Dillin A (2016) Lipid biosynthesis coordinates a mitochondrial-to-cytosolic stress response. *Cell* 166, 1539-1552. PMID 27568596
22. Sogi K, Holsclaw C, Fragiadakis G, **Nomura DK**, Leary J, Bertozzi C. (2016) Biosynthesis and regulation of sulfomenaquinone, a metabolite associated with virulence in Mycobacterium tuberculosis. *ACS Infectious Diseases* 2, 800-806. PMID 27933784
23. Braverman J, Sogi KM, Benjamin D, **Nomura DK**, Stanley SA. (2016) HIF-1alpha is an essential mediator of IFA-gamma-dependent immunity to Mycobacterium tuberculosis. *Journal of Immunology* doi: 10.4049/jimmunol.1600266. PMID 27430718
24. Kohnz RA, Roberts, LS, DeTomaso D, Badyopadhyay S, Yosef N, **Nomura DK**. (2016) Protein sialylation regulates a gene expression signature that promotes breast cancer cell pathogenicity. *ACS Chemical Biology* 11, 2131-2139. PMID 27380425
25. Long JZ, Svensson KJ, Bateman LA, Lin H, Kamenecka T, Lokurkar IA, Lou J, Rao RR, Chang MT, Jedrychowski MP, Paolo J, Griffin PR, **Nomura DK***, Spiegelman BM* (2016) PM20D1 secretion by thermogenic adipose cells regulates lipidated amino acid uncouplers of mitochondrial respiration. *Cell* 166, 424-435. PMID 27374330 (*co-corresponding authorship)
26. Chomvong K, Bauer S, Benjamin DI, Li X, **Nomura DK**, Cate JHD. (2016) Bypassing the pentose phosphate pathway: Towards modular utilization of xylose. *Plos One* 11, e0158111. PMID 27336308

27. Louie SM, Grossman EA, Crawford LA, Ding L, Camarda R, Huffman TR, Miyamoto DK, Goga A, Weerapana E, **Nomura DK**. (2016) GSTP1 is a driver of triple-negative breast cancer cell metabolism and pathogenicity. *Cell Chemical Biology* 5, 567-578. PMID 27185638
28. Zhang J, Medina-Cleghorn D, Bernal-Mizrachi L, Bracci PM, Hubbard A, Conde L, Riby J, **Nomura DK**, Skibola C (2016) The potential relevance of the endocannabinoid, 2-arachidonoylglycerol, in diffuse large B-cell lymphoma. *Oncoscience* 3, 31-41. PMID 26973858
29. Nikkanen J, Forsstrom S, Euro L, Paetau I, Kohnz RA, Wang L, Chilov D, Viinamaki J, Roivainen A, Marjamaki P, Liljenback H, Ahola S, Buzkova J, Terzioglu M, Khan NA, Pirnes-Karhu S, Paetau A, Lonnqvist T, Sajantila A, Isohanni P, Tyynaismaa H, **Nomura DK**, Battersby B, Velagapudi V, Carroll CJ, Suomalainen A (2016) Mitochondrial DNA replication defects disturb cellular dNTP pools and remodel one-carbon metabolism. *Cell Metabolism* 23, 635-648. PMID 26924217
30. **Nomura DK**, Casida JE (2016) Lipases and their inhibitors in health and disease. *Chemico-Biological Interactions* 259, 211-222. PMID 27067293
31. Camarda R, Zhou AY, Kohnz RA, Balakrishnan S, Mahieu C, Anderton B, Eyob H, Kajimura S, Tward A, Krings G, **Nomura DK**, Goga A. (2016) Inhibition of fatty-acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer. *Nature Medicine* 22, 427-432. PMID 26950360.
32. Saghatelian A, **Nomura DK**, Weerapana E (2016) Omics: The maturation of chemical biology. *Current Opinions in Chemical Biology* 30: v-vi. PMID 26739665
33. Counihan JC, Ford B, **Nomura DK**. (2016) Mapping Proteome-Wide Interactions of Reactive Chemicals using Chemoproteomic Platforms. *Current Opinions in Chemical Biology* 30, 68-76. PMID 26647369

2015

34. Medina-Cleghorn D, Bateman LA, Ford B, Heslin A, Fisher KJ, Dalvie ED, **Nomura DK**. (2015) Mapping proteome-wide targets of environmental chemicals using reactivity-based chemoproteomic platforms. *Chemistry and Biology* 22, 1394-1405. PMID26496688
35. Piano V[#], Benjamin DI[#], Valente S, Nenci S, Mai A, Aliverti A, **Nomura DK**^{*}, Mattevi A^{*}. (2015) Discovery of inhibitors for the ether lipid-generating enzyme AGPS as anti-cancer agents. *ACS Chemical Biology* 10, 2589-2597. PMID 26322624 ([#]co-first authors; ^{*} co-corresponding authors).
36. Queiroz A, Medina-Cleghorn D, Marjanovic O, **Nomura DK**, Riley LW. (2015) Comparative metabolic profiling of *Mycobacterium tuberculosis*: cell wall lipid reorganization as a virulence factor. *Pathogens and Disease* 73, ftv066. PMID26319139.
37. Sanchez-Alavez M, Nguyen W, Mori S, Moroncini G, Viader A, **Nomura DK**, Cravatt BF, Conti B. (2015) Monoacylglycerol lipase regulates fever response. *Plos One* 10, e0134437. PMID: 26287872.
38. Kohnz RA, Mulvihill MM, Chang JW, Hsu K-L, Sorrentino A, Cravatt BF, Bandyopadhyay S, Goga A, **Nomura DK**. (2015) Activity-based protein profiling of oncogene-driven changes in metabolism reveals PAFAH1B2 and 1B3 as broad-spectrum cancer therapy targets. *ACS Chemical Biology* 10, 1624-1630. PMID: 25945974.
39. Benjamin DI, Li DS, Lowe, W, Heuer T, Kemble G, **Nomura DK**. (2015) Diacylglycerol metabolism and signaling is a predictive and driving force underlying FASN inhibitor sensitivity in cancer cells. *ACS Chemical Biology* 10, 1616-1623. PMID: 25871544
40. Rashidian J, Le Scolan E, Ji X, Mulvihill MM, **Nomura DK**, Luo K. (2015) Ski regulates Hippo and TAZ signaling to suppress breast cancer progression. *Science Signaling* 10, ra14. PMID: 25670202
41. Anderson CM, Kazantzis M, Wang J, Venkatraman S, Goncalves RLS, Quinlan CL, Ng R, Jastroch, M, Benjamin DI, Nie B, Herber C, Van A-AN, Park MK, Yun D, Chan K, Yu A, Vuong P, Febbraio M, **Nomura DK**, Napoli JL, Brand MD, Stahl A. (2015) Dependence of brown adipose tissue function on CD36-mediated coenzyme Q uptake. *Cell Reports* 10, 505-515. PMID 25620701
42. Chang JW, Zuhl AM, Speers AE, Niessen S, Brown SJ, Mulvihill MM, Fan YC, Spicer TP, Southern M, Scampavia L, Fernandez-Vega V, Dix MM, Cameron MD, Hodder PS, Rosen H, **Nomura DK**, Kwon O, Hsu K-L, Cravatt BF. (2015) A selective inhibitor of platelet-activating factor acetylhydrolases 1b2 and 1b3 that impairs cancer cell survival. *ACS Chemical Biology* 10, 925-932. PMID: 25602368

2014

43. Lysenko LV, Kim J, Henry C, Tyrtysnaia A, Kohnz RA, Madamba F, Simon GM, Kleschevnikova NE, **Nomura DK**, Ezekowitz RAB, Kleschevnikov AM. (2014) Monoacylglycerol lipase inhibitor JZL184 improves behavior and neural properties in aged Ts65Dn mice, a model of Down Syndrome. *Plos One* 9, e114521. PMID: 25474204.

44. Valdearcos M, Robblee M, Benjamin DI, **Nomura DK**, Xu AW, Koliwad SK. (2014) Microglia Dictate the Impact of Saturated Fat Consumption on Hypothalamic Inflammation and Neuronal Function. *Cell Reports* 9, 1-15. PMID: 25497089
45. Hunerdosse D, Morris PJ, Miyamoto DK, Fisher KJ, Bateman LA, Ghazaleh J, Zhong S, **Nomura DK**. (2014) Chemical Genetics Screening Reveals KIAA1363 as a Cytokine-Lowering Target. *ACS Chemical Biology* 9, 2905-2913. PMID: 25343321.
46. Medina-Cleghorn D, **Nomura DK**. (2014) Exploring metabolic pathways and regulation through functional chemoproteomic and metabolomic platforms. *Chemistry & Biology* 21, 1171-1184. PMID: 25237861.
47. Mulvihill MM, **Nomura DK**. (2014) Metabolomic Strategies to Map Functions of Metabolic Pathways. *AJP Metabolism and Endocrinology* 307, E237-E244. PMID: 24918200
48. Latimer LN, Lee MR, Medina-Cleghorn D, Kohnz RA, **Nomura DK**, Dueber JE. (2014) Employing a combinatorial expression approach to characterize xylose utilization in *Saccharomyces cerevisiae*. *Metabolic Engineering* 25, 20-29. PMID: 24930894.
49. Mulvihill MM, Benjamin DI, LeScolan E, Ji X, Shieh A, Green M, Narasimhalu T, Morris PJ, Luo K, **Nomura DK**. (2014) Metabolic Profiling Reveals PFAH1B3 as a critical driver of breast cancer pathogenicity. *Chemistry & Biology* 21, 831-840. PMID: 24954006
50. Benjamin DI, Louie S, Mulvihill MM, Kohnz RA, Li DS, Chan LG, Sorrentino A, Bandhyopadhyay S, Cozzo A, Ohiri A, Goga A, Ng-SW, **Nomura DK**. (2014) Inositol phosphate recycling regulates glycolytic and lipid metabolism that drives cancer aggressiveness. *ACS Chemical Biology* 20, 1340-1350. PMID: 24738946
51. Kohnz RK, **Nomura DK**. (2014) Chemical approaches to therapeutically target the metabolism and signaling of the endocannabinoid 2-AG and eicosanoids. *Chemical Society Reviews* 43, 6859-6869. PMID: 24676249
52. Morris PJ*, Medina-Cleghorn D*, Heslin A, King S, Orr J, Krauss RM, **Nomura DK**. (2014) Organophosphorus flame retardants inhibit specific liver carboxylesterases and cause serum hypertriglyceridemia. *ACS Chemical Biology* 9, 1097-1103. (*authors contributed equally to the work) PMID: 24597639
53. Hunerdosse D, **Nomura DK**. (2014) Activity-based proteomic and metabolomic approaches for understanding metabolism. *Current Opinion in Biotechnology* 28C, 116-126. PMID 24594637
54. Poole D, Lee M, Tso P, Bunnnett N, Yo S, Lieu T, Shiu A, Wang J-C, **Nomura DK**, and Aponte GW. (2014) Feeding dependent activation of enteric cells and sensory neurons by lymphatic fluid: evidence for a neurolymphocrine system. *AJP-Gastrointestinal and Liver Physiology* 306, G686-G698. PMID: 24578341
55. Dominguez E, Galmozzi A, Chang JW, Hsu K-L, Pawlak J, Li W, Godio C, Thomas J, Partida D, Niessen S, O'Brien PE, Russell AP, Watt MJ, **Nomura DK**, Cravatt BF, Saez E. (2014) Integrated phenotypic screening and activity-based proteomics defines a role for carboxylesterase 3 in obesity and diabetes. *Nature Chemical Biology* 10, 113-121. PMID: 24362705
56. Medina-Cleghorn D, Heslin A, Morris PJ, Mulvihill MM, **Nomura DK**. (2014) Multidimensional profiling platforms reveal metabolic dysregulation caused by organophosphorus pesticides. *ACS Chemical Biology* 9, 423-432. PMID: 24205821

2013

57. **Nomura DK**, Cravatt BF. (2013) Lipid Metabolism in Cancer. *Biochimica et Biophysica Acta—Molecular and Cell Biology of Lipids* 1831, 1497-1498. PMID: 23921253
58. Benjamin DI, Cozzo A, Ji X, Roberts LS, Louie SM, Luo K, **Nomura DK**. (2013) The ether lipid generating enzyme AGPS alters the balance of structural and signaling lipids that fuel cancer pathogenicity. *Proceedings of the National Academy of Sciences, USA* 110, 14912-14917. PMID: 23980144
59. Louie SM*, Roberts LS*, Mulvihill MM, Luo K, **Nomura DK**. (2013) Cancer cells incorporate and remodel exogenous fatty acids into structural and oncogenic signaling lipids. *Biochimica et Biophysica Acta—Molecular and Cell Biology of Lipids* 1831, 1566-1572. PMID: 23872477 (* authors contributed equally to the work)
60. Louie SM, Roberts LS, **Nomura DK**. (2013) Mechanisms linking obesity and cancer. *Biochimica et Biophysica Acta—Molecular and Cell Biology of Lipids* 1831, 1499-1508. PMID: 23470257
61. Medina-Cleghorn D, **Nomura DK**. (2013) Chemical Approaches to Study Metabolic Networks. *Pflugers Archive* 465,427-440. PMID: 23296751

62. Cao Z, Mulvihill MM, Mukhopadhyay P, Xu H, Erdelyi K, Hao E, Holovac E, Hasko G, Cravatt BF, **Nomura DK**[#], Pal Pacher[#]. (2013) Monoacylglycerol lipase controls endocannabinoid and eicosanoid signaling and hepatic injury in mice. *Gastroenterology* 144, 808-817. PMID: 23295443 (# co-corresponding authors)
63. Mulvihill MM, **Nomura DK**. (2013) Therapeutic Potential of Monoacylglycerol Lipase Inhibitors. *Life Sciences* 92, 492-497. PMID: 23142242

2012

64. Morrison BE, Garibaldi Marcondes MC, **Nomura DK**, Sanchez-Alavez M, Saar I, Bartfai T, Maher P, Sugama S, Conti B. (2012) IL-13 α 1 expression in dopaminergic neurons contributes to their oxidative stress-mediated loss following chronic systemic treatment with LPS. *Journal of Immunology* 189, 5498-5502. PMID: 23169588
65. Benjamin DI, Cravatt BF, **Nomura DK**. (2012) Global Profiling Strategies towards Mapping Dysregulated Metabolic Pathways in Cancer. *Cell Metabolism* 16, 565-567. PMID: 23063552
66. Piro JR, Benjamin DI, Duerr JM, Pi YQ, Gonzales C, Schwartz JW, **Nomura DK**[#], Samad TA[#]. (2012) A Dysregulated Endocannabinoid-Eicosanoid Network Supports Pathogenesis in a Mouse Model of Alzheimer's Disease. *Cell Reports* 1, 617-623. PMID: 22813736 (# co-corresponding author)

2011

67. **Nomura DK**[#], Morrison BE, Blankman JL, Long JZ, Kinsey SG, Marcondes MC, Ward AM, Hahn YK, Lichtman AH, Conti B, Cravatt BF[#]. (2011) Endocannabinoid hydrolysis generates brain eicosanoids that promote neuroinflammation. *Science* 334, 809-813. PMID: 22021672 (# co-corresponding author)
68. Ruby MA, **Nomura DK**, Hudak CSS, Barber A, Casida JE, Krauss RM. (2011) Overactive endocannabinoid signaling induces hepatic steatosis, insulin resistance, and global transcriptional changes. *Plos One* 6, e26415. PMID: 22073164

Undergraduate/Graduate/Postdoctoral Work (2002-2011)

69. **Nomura DK**[#], Lombardi DP, Chang JW, Niessen S, Ward AM, Long JZ, Hoover HH, Cravatt BF[#]. (2011) Monoacylglycerol lipase exerts bidirectional control over endocannabinoid and fatty acid pathways to support prostate cancer pathogenesis. *Chemistry & Biology* 18, 848-856. PMID: 21802006 (# co-corresponding author)
70. Ramesh D, Ross GR, Schlosburg JE, Abdullah RA, Kinsey SG, Long JZ, **Nomura DK**, Sim-Selley LJ, Cravatt BF. (2011) Blockade of endocannabinoid hydrolytic enzymes attenuates precipitated withdrawal symptoms in mice. *Journal of Pharmacology and Experimental Therapeutics* 339, 173-185. PMID: 21719468
71. Kinsey SG, **Nomura DK**, O'Neal ST, Long JZ, Cravatt BF, Lichtman AH. (2011) Inhibition of monoacylglycerol lipase (MAGL) attenuates NSAID-induced gastric hemorrhages in mice. *Journal of Pharmacology and Experimental Therapeutics* 338, 795-802. PMID: 21659471
72. Chang JW, **Nomura DK**, Cravatt BF. (2011) A potent and selective inhibitor of KIAA1363/AADACL1 that impairs prostate cancer pathogenesis. *Chemistry & Biology* 18, 476-484. PMID: 21513884
73. Ahn K, Smith SE, Liimata MB, Sadagopan N, Dudley D, Young T, Wren P, Zhang Y, Swaney S, Van Becelaere K, Blankman JL, **Nomura DK**, Bhattachar SN, Stif C, Nomanbhoy TK, Weerapana E, Johnson DS, Cravatt BF. (2011) Mechanistic and pharmacological characterization of PF-04457845: a highly potent and selective FAAH inhibitor that reduces inflammatory and noninflammatory pain. *Journal of Pharmacology and Experimental Therapeutics* 338, 114-124. PMID: 21505060
74. **Nomura DK**[#], Casida JE[#]. (2011) Activity-based protein profiling of organophosphorus and thiocarbamate pesticides reveals multiple secondary targets in the mammalian nervous system. *Journal of Agricultural and Food Chemistry* 59, 2808-2815. PMID: 21341672 (# co-corresponding author)
75. Nicolaou KC, Sanchini S, Sarlah D, Lu G, Wu R, **Nomura DK**, Cravatt BF, Cubitt B, de la Torre JC, Hessel AJ, Burton DR. (2011) Design, synthesis and biological evaluation of a biyouyanagin compound library. *Proceedings of the National Academy of Sciences, USA* 108, 6715-6720. PMID: 21245351
76. Bachovchin DA, Mohr JT, Speers AE, Wang C, Berlin JM, Spicer TP, Fernandez-Vega V, Chase P, Hodder PS, Schürer, **Nomura DK**, Rosen H, Fu GC, Cravatt BF. (2011) Academic cross-fertilization by public screening yields a remarkable class of protein phosphatase methylesterase-1 inhibitors. *Proceedings of the National Academy of Sciences, USA* 108, 6811-6816. PMID: 21398589

77. Kopp F, Komatsu T, **Nomura DK**, Trauger SA, Thomas JR, Simon GM, Cravatt BF. (2010) The glycerophospho-metabolome and its influence on amino acid homeostasis by brain metabolomics of GDE1(-/-) mice. *Chemistry & Biology* 17, 831-840. PMID: 20797612
78. Schlosburg JE, Blankman JL, Long JZ, **Nomura DK**, Nguyen PT, Ramesh D, Kinsey SG, Booker L, Burston JK, Wise LE, Ghosh S, Selley DE, Sim-Selley LJ, Liu Q, Cravatt BF, Lichtman AH. (2010) Sustained inactivation of monoacylglycerol lipase produces functional antagonism of the brain endocannabinoid system. *Nature Neuroscience* 13, 1113-1119. PMID: 20729846
79. **Nomura DK**, Dix MM, Cravatt BF. (2010) Chemoproteomic Approaches for Biochemical Pathway Discovery in Cancer. *Nature Reviews Cancer* 10, 630-638. PMID: 20703252
80. **Nomura DK**, Long JZ, Niessen S, Hoover HS, Ng S-W, Cravatt BF. (2010) Monoacylglycerol lipase regulates a fatty acid network that promotes cancer pathogenesis. *Cell* 140, 49-61. PMID: 20079333
81. Long JZ, **Nomura DK**, Vann RE, Walentiny DM, Booker L, Jin X, Burston JJ, Sim-Selley LJ, Lichtman AH, Wiley JL, Cravatt BF. (2009) Dual blockade of FAAH and MAGL identifies behavioral processes regulated by endocannabinoid crosstalk in vivo. *Proceedings of the National Academy of Sciences, USA* 106, 20270-20275. PMID: 19918051
82. Long JZ, **Nomura DK**, Cravatt BF. (2009) Mechanistic characterization of selective monoacylglycerol lipase inhibition reveals differences in central and peripheral endocannabinoid metabolism. *Chemistry & Biology* 16, 744-753. PMID: 19635411
83. Ruby M*, **Nomura DK***, Hudak CS, Mangravite LM, Chiu S, Casida JE, Krauss RM. (2008) Overactive endocannabinoid signaling impairs apolipoprotein E-mediated clearance of triglyceride-rich lipoproteins. *Proceedings of the National Academy of Sciences, USA* 105, 14561-14566. PMID: 18794527 (* co-first author)
84. **Nomura DK**, Ward AM, Hudak CS, Burston JJ, Issa RS, Fisher KJ, Abood ME, Wiley JL, Lichtman A, Casida JE. (2008) Monoacylglycerol lipase regulates 2-arachidonoylglycerol action and arachidonic acid levels. *Bioorganic Medicinal Chemistry Letters* 18, 5875-5878. PMID: 18752948
85. Casida JE, **Nomura DK**, Vose SC, Fujioka K. (2008) Organophosphate-Sensitive Lipases Modulate Brain Lysophospholipids, Ether Lipids and Endocannabinoids. *Chemico-Biological Interactions* 175, 355-64. PMID: 18495101
86. **Nomura DK**, Blankman JL, Simon GM, Fujioka K, Issa RS, Ward AM, Cravatt BF, Casida JE. (2008) Activation of the endocannabinoid system by organophosphorus nerve agents. *Nature Chemical Biology* 4, 373-378. PMID: 18438404
87. **Nomura DK**, Fujioka K, Issa RS, Ward AM, Cravatt BF, Casida JE. (2008) Dual Roles of Brain Serine Hydrolase KIAA1363 in Ether Lipid Metabolism and Organophosphate Detoxification. *Toxicology and Applied Pharmacology* 228, 42-482. PMID: 18154358
88. **Nomura DK**, Durkin KA, Chiang KP, Quistad GB, Cravatt BF, Casida JE. (2006) Serine Hydrolase KIAA1363: Toxicological and Structural Features with Emphasis on Organophosphate Interactions. *Chemical Research in Toxicology* 19, 1142-1150. PMID: 16978018
89. Quistad GB, Liang SN, Fisher KJ, **Nomura DK**, Casida JE. (2006) Each Lipase has a Unique Sensitivity Profile for Organophosphorus Inhibitors. *Toxicological Sciences* 91,166-172. PMID: 16449251
90. **Nomura DK**, Leung D, Chiang KP, Quistad GB, Cravatt BF, Casida JE. (2005) A Brain Detoxifying Enzyme for Organophosphorus Nerve Poisons. *Proceedings of the National Academy of Sciences, USA* 102, 6195-6200. PMID: 15840715
91. Segall Y, Quistad GB, Sparks SE, **Nomura DK**, Casida JE. (2003) Toxicological and Structural Features of Organophosphorus and Organosulfur Cannabinoid CB1 Receptor Ligands. *Toxicological Sciences* 76, 131-137. PMID: 12944568
92. Segall Y, Quistad GB, **Nomura DK**, Casida JE. (2003) Arachidonylsulfonyl Derivatives as Cannabinoid CB1 Receptor and Fatty Acid Amide Hydrolase Inhibitors. *Bioorganic Medicinal Chemistry Letters* 13,3301-3303. PMID: 12951114
93. Quistad GB, **Nomura DK**, Sparks SE, Segall Y, Casida JE. (2002) Cannabinoid CB1 Receptor as a Target for Chlorpyrifos Oxon and Organophosphorus Pesticides. *Toxicology Letters* 135, 89-93. PMID: 12243867
94. Quistad GB, Sparks SE, Segall Y, **Nomura DK**, Casida JE. (2002) Selective Inhibitors of Fatty Acid Amide Hydrolase Relative to Neuropathy Target Esterase and Acetylcholinesterase: Toxicological Implications. *Toxicology and Applied Pharmacology* 179, 57-63. PMID: 11884237

Patents

1. **Nomura DK**, Zoncu R, Roberts AM, Cho, KF. mTORC1 modulators; Provisional Application for Patent; Attorney Docket Number 52103-511P01US
2. **Nomura DK**, Anderson KE. (2017) Thioredoxin modulators and uses thereof; Provisional Application for Patent; Attorney Docket Number 52013-506P01US
3. **Nomura DK**, Roberts LS, Ward CC. (2017) Compositions for treating breast cancer. Provisional Application for Patent; Attorney Docket Number 52013-501P01US.
4. **Nomura DK**, Roberts AM, Bateman LA, Miyamoto DK, Huffman TR, Ward CC. (2017) Compositions and methods for modulating UBA5. Provisional Application for Patent; Attorney Docket Number 52013-502P01US.
5. **Nomura DK**, Olzmann JA, Bateman LA, Nguyen TB, Miyamoto DK, Huffman TR. (2017) Compositions and methods for inhibiting Reticulon 4. Provisional Application for Patent; Attorney Docket Number 52013-503P01US.
6. **Nomura DK**, Grossman EA, Ward CC, Bateman LA, Huffman TR, Miyamoto DK. (2017) Compositions and methods for modulating PPP2R1A. Provisional Application for Patent; Attorney Docket Number 52103-504P01US.
7. **Nomura DK**, Benjamin DI, Kemble GW, Heuer TS. (2015) Methods for determining cancer cell sensitivity to fatty acid synthase inhibitors. Provisional Application for Patent U.S. Application serial no. 62/108,956.
8. Cravatt BF, **Nomura DK**, Chang JW, Moellering M, Bachovchin, D, Li, W. (2011) Anti-cancer serine hydrolase inhibitory carbamates. PCT/US2011/057321.
9. Cravatt BF, Long JZ, Li W, **Nomura DK**. (2010) Methods and Compositions Related to Targeting Monoacylglycerol Lipase. US Patent 8772318; PCT/US2009/006045.

Abstracts/meetings/invited talks

1. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. Tufts University Medical School, Boston, MA.
2. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. University of Virginia, Charlottesville, VA.
3. Invited Speaker and Wendell Griffith Lecturer: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. St Louis University, St. Louis, MO.
4. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. AACR Advances in Breast Cancer Meeting, Hollywood, CA.
5. Invited Speaker: **Nomura DK** (2017) Redefining Druggability using Chemoproteomic Platforms. Austrian Proteomics Association meeting, Graz, Austria.
6. Invited Speaker: **Nomura DK** (2017) Chemoproteomic Platforms for Mapping Druggable Hotspots in Disease. Enzymes, Coenzymes, & Metabolic Pathways Gordon Conference. Waterville Valley, NH.
7. Invited Speaker: **Nomura DK** (2017) Chemoproteomic and Metabolomic Platforms for Mapping Drivers of Disease. American Diabetes Association meeting. San Diego, CA.
8. Invited Speaker: **Nomura DK** (2017) Chemoproteomic Platforms for Mapping Druggable Hotspots in Disease. Royal Society of Chemistry Chemical Biology Symposium. London, UK.
9. Invited Speaker: **Nomura DK** (2017) Chemoproteomic Platforms for Mapping Druggable Hotspots in Disease. World Molecular Engineering Network conference, San Jose Del Cabo, Mexico.
10. Invited Speaker: **Nomura DK** (2017) Using Chemoproteomic and Metabolomic Platforms to Map Drivers of Human Disease, UCSF Breast Oncology Program Seminar, San Francisco, CA.
11. 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.
12. 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.
13. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, The University of Sydney Charles Perkin Centre, Sydney, Australia.
14. Keynote Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Third Australian Lipids Meeting, Melbourne, Australia.

15. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, University of Georgia, Athens, Georgia.
16. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, UCSD Metabolomics Symposium, La Jolla, CA.
17. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Oregon Health State University, Portland, Oregon.
18. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Amgen South San Francisco, CA
19. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Vanderbilt University Chemical Biology Seminar Series, Nashville, Tennessee.
20. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Toxicology and Drug Discovery GETA (Genetic and Environmental Toxicology Association) Symposium, Oakland, CA.
21. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. Gilead Medicinal Chemistry Seminar Series, Foster City, CA.
22. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. Gordon Conference on Bioorganic Chemistry, New Hampshire.
23. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. AACR National Meeting, New Orleans, Louisiana.
24. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. University of Pavia, Italy.
25. Invited Speaker: **Nomura DK** (2016) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Medical University of Graz, Graz, Austria.
26. 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.
27. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Cleveland Clinic, Cleveland, Ohio.
28. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Purdue University, Department of Nutrition, Indiana.
29. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCLA, Los Angeles, California.
30. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. University of Wisconsin, Madison Department of Biochemistry, Madison, Wisconsin.
31. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCSF Cancer Center, San Francisco, CA
32. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCSF Endocrinology, San Francisco, CA
33. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. UCSD Bioengineering Department, La Jolla, CA
34. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Dana Farber Cancer Institute, Boston, Massachusetts.
35. 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.
36. 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.
37. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Cancer using Chemoproteomic and Metabolomic Platforms. AACR Metabolism and Cancer meeting, Bellevue, Washington.
38. Invited Speaker: **Nomura DK** (2015) Mapping Metabolic Drivers of Disease using Chemoproteomic and Metabolomic Platforms. Lipid Maps Meeting 2015, La Jolla, CA.
39. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, Dana Farber/Harvard Medical School, Boston, MA.
40. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, Searle Meeting, Chicago, IL.

41. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, University of Chicago, Chicago, IL.
42. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Lipid Metabolism in Disease using Chemoproteomic and Metabolomic Platforms, RIKEN, Yokohama, Japan.
43. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Lipid Metabolism in Disease using Chemoproteomic and Metabolomic Platforms, Phospholipase Meeting, Tokyo, Japan.
44. Seminar speaker: **Nomura DK** (2014) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology, UC Berkeley, Nutritional Sciences and Toxicology Department
45. 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.
46. Invited Speaker: **Nomura DK** (2014) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology, Genentech, South San Francisco, CA Investigative Toxicology Division
47. Poster: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Searle Scholars Meeting, Chicago, IL.
48. Invited Speaker: **Nomura DK** (2014) Mapping Dysregulated Lipid Metabolism in Cancer using Chemoproteomic and Metabolomic Platforms, ASBMB meeting, San Diego, CA.
49. Invited Speaker: **Nomura DK** (2014) Mapping Dysregulated Lipid Metabolism in Cancer using Chemoproteomic and Metabolomic Platforms, Keystone Meeting on Tumor Metabolism, Whistler, Canada.
50. Invited Speaker: **Nomura DK** (2014) Validating Monoacylglycerol Lipase Inhibitors in Combatting Parkinson's Disease, Michael J Fox Foundation, New York, NY.
51. Invited Seminar Speaker: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, Karolinska Institute, Stockholm, Sweden.
52. Invited Seminar Speaker: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, University of Pavia, Pavia, Italy.
53. Invited Seminar Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, Novartis, Cambridge, MA.
54. Invited Seminar Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, UC Merced, Merced, CA.
55. 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.
56. Keynote Speaker: **Nomura DK** (2013) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology. NorCal Society of Toxicology meeting, South San Francisco, CA.
57. 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.
58. 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.
59. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates eicosanoids that promote inflammation. Gordon conference Molecular and Cellular Biology of Lipids, New Hampshire, NJ
60. Poster: **Nomura DK** (2013) Mapping dysregulated metabolic pathways in cancer. Gordon conference bioorganic chemistry, New Hampshire, NJ.
61. Poster: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Searle Scholars Meeting, Chicago, IL.
62. 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
63. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. Seminar speaker at University of Minnesota, Minneapolis, MN.
64. Invited Speaker: **Nomura DK** (2012) Mapping dysregulated metabolic pathways in disease using functional proteomic and metabolomic platforms. Seminar speaker at Agilent, Santa Clara, CA.
65. Invited Speaker: **Nomura DK** (2012) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. Seminar speaker at Pfizer Neuroscience, Cambridge, MA.

66. 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.
67. Keynote Invited Speaker: **Nomura DK** (2012) Mapping dysregulated metabolic pathways in cancer using functional proteomic and metabolomic platforms. Austrian Proteomics Research Symposium, Graz, Austria.
68. Invited Speaker: **Nomura DK**. (2012) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. *International Cannabinoid Research Society* meeting, Freiberg, Germany.
69. Poster: **Nomura DK** and Samad TA (2012) Metabolomic profiling for mapping anti-inflammatory pathways in neurodegenerative disease. *Genetics and Chemistry Cell Symposium*, Cambridge, Massachusetts.
70. 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
71. 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.
72. Invited Speaker: **Nomura DK** (2011) Mapping dysregulated metabolic pathways in cancer using activity-based proteomics. American Chemical Society meeting, Denver, Colorado.
73. Invited Speaker: **Nomura DK**, Cravatt BF (2011) Mapping dysregulated metabolic pathways in cancer. American Association for Cancer Research meeting, Orlando, Florida.
74. 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.
75. Invited Speaker: **Nomura DK**. (2009) Chemical Approaches to Annotating Toxicological and Biological Systems. University of California Toxic Substances & Teaching Program Symposium, Berkeley, California.
76. 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.
77. 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.
78. 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.
79. 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 |
|----------------------------------|----------------------------------|------------------|
| Kenneth Kim (2017-current) | Undergraduate Researcher | |
| Samantha Tang (2017-current) | Administrative and Lab Assistant | |
| Christine Tatcher (2017-current) | Undergraduate Researcher | |
| Kyra Berger (2017-current) | Undergraduate Researcher | |
| Yosuke Isobe (2018-current) | Postdoctoral Fellow | |
| Clive Chung (2017-current) | Postdoctoral Fellow | |
| Katherine Near (2017-current) | Postdoctoral Fellow | |
| Alexander Cioffi (2017-current) | Postdoctoral Fellow | |
| Lisha Ou (2017-current) | Undergraduate Researcher | |
| Linda Waldherr (2017-2017) | Visiting Grad Student | |
| Raymond Ho (2017-current) | Undergraduate Researcher | |
| Sage Geher (2017-2017) | Undergraduate Researcher | |
| Mai Luo (2016-current) | Visiting Grad Student | |
| Tamara Tomin (2016-2017) | Visiting Grad Student | |
| Fernando Alvarez (2016-current) | Graduate Researcher | |
| Alex Renn (2016-2017) | Undergraduate Researcher | |
| Jordan Kleinman (2016-current) | Undergraduate Researcher | |
| Ashley Ives (2016-2017) | Undergraduate Researcher | |

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|-----------------------------------|------------------------------|---|
| Sultana Mojadidi (2016-2016) | Undergraduate Researcher | |
| Jessica Spradlin (2016-current) | Graduate Researcher | |
| Carl Ward (2016-current) | Graduate Researcher | |
| Allison Roberts (2016-current) | Graduate Researcher | |
| Amanda Wiggenhorn (2016-current) | Research Associate | |
| Joseph Hendricks (2016-current) | Undergraduate Researcher | |
| Anna Flury (2016-2016) | Lab Assistant | |
| Haley Lehtola (2016-2017) | Undergraduate Researcher | |
| Yana Petri (2016-current) | Research Associate | |
| Justin Wang (2016-2017) | Undergraduate Researcher | |
| Ivan Atencio (2016-2017) | Undergraduate Researcher | |
| Andrew Hong (2016-2016) | Undergraduate Researcher | |
| Catherine Schneider (2015-2017) | Graduate Researcher | |
| Catherine Cascavita (2015-2016) | Lab Manager | |
| Elizabeth Grossman (2015-current) | Graduate Researcher | |
| Michelle Luu (2015-current) | Undergraduate Researcher | |
| Deepika Raghavan (2015-2016) | Undergraduate Researcher | |
| Peter Yan (2015-2017) | Undergraduate Researcher | |
| Kimberly Anderson (2015-current) | Graduate Researcher | |
| Melanie Hubbuck (2015-2017) | Graduate Researcher | |
| Megan Duckering (2015-2016) | Undergraduate Researcher | |
| Angela Yang (2015-2015) | Undergraduate Researcher | |
| Charles Berdan (2014-current) | Graduate Researcher | |
| Wan-Min Ku (2014-2017) | Undergraduate Researcher | |
| Derek Barbas (2014-2015) | Undergraduate Researcher | |
| Leslie Bateman (2014-2016) | Postdoctoral Fellow | Senior Scientist at Celgene |
| Breanna Ford (2014-current) | Graduate Researcher | |
| Wallace Lowe (2014-2015) | Undergraduate Researcher | |
| Tucker Huffman (2014-2017) | Undergraduate Researcher | Graduate Student at TSRI in Ryan Shenvi's lab |
| Olivia Dibenedetto (2014-2014) | Undergraduate Researcher | |
| Jeffrey Coleman (2014-2014) | Undergraduate Researcher | |
| Lara Bideyan (2014-2015) | Undergraduate Researcher | |
| Esha Dalvie (2013-2016) | Undergraduate Researcher | |
| Daniel Li (2013-2015) | Undergraduate Researcher | |
| Jessica Counihan (2013-current) | Graduate Researcher | |
| Sharon Zhong (2013-2015) | Undergraduate Researcher | |
| David Miyamoto (2013-2015) | Undergraduate Researcher | |
| Karl Fisher (2013-2014) | Associate Specialist | Director of Chemistry at Lygos |
| Lauryn Chan (2013-2014) | Undergraduate Researcher | |
| Lucky Ding (2013-2016) | Undergraduate Researcher | |
| Nivedita Keshav (2013-2014) | Undergraduate Researcher | |
| Ann Heslin (2013-2015) | Undergraduate Researcher | |
| 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 | Postdoc at Stanford in Mary Teruel Lab |
| 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 | |
| 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 | Scientist at Genentech |
| Alyssa Cozzo (2012-2013) | Undergraduate Researcher | Researcher in Mina Bissell Lab, LBNL |

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| Daniel Medina-Cleghorn (2011-2015) | Graduate Researcher | Postdoc at UCSF in Michelle Arkin Lab |
| Jay Andrew Cosme Barcelon (2011-2012) | Undergraduate Researcher | |
| McKenna Green (2012-2014) | Undergraduate Researcher | |
| Daniel I Benjamin (2011-2015) | Graduate Researcher | Postdoc at Stanford in Tom Rando Lab |
| Sharon M Louie (2011-2017) | Graduate Researcher | Postdoc at Harvard Medical School in Carla Kim's lab |
| 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) | Undergraduate Researcher | Anesthesiology Resident at Harvard Medical School |
| Roger Issa (2004-2008) | Undergraduate Researcher | |