



CURRICULUM VITAE

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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

- 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

Research Interests

I am an Associate Professor in the Departments of Chemistry, Molecular and Cell Biology, and Nutritional Sciences and Toxicology at the University of California, Berkeley. I am also an associate adjunct professor in the Department of Pharmaceutical Chemistry at UCSF. I am also a member of the UCSF Helen Diller Family Comprehensive Cancer Center and UCSF Breast Oncology Program. The Nomura Research Group is focused on using chemoproteomic and metabolomics platforms to map drivers of cancer towards developing next-generation therapeutic strategies to combat cancer. We have four major research areas:

1. Mapping metabolic drivers of cancer using chemoproteomic and metabolomic platforms to develop next-generation cancer therapies
2. Coupling chemical genetic screening of targeted reactive small-molecule libraries with chemoproteomic platforms to identify anti-cancer agents, targets, and druggable hotspots within these targets to develop next-generation cancer therapies.
3. Using chemoproteomic platforms to map proteome-wide reactivity and targets of reactive anti-cancer natural products and to pharmacologically interrogate these targets with more synthetically accessible molecules, towards understanding mechanisms of anti-cancer natural products and developing next-generation cancer therapies.
4. Using chemoproteomic platforms to map proteome-wide interactions of environmental and pharmaceutical chemicals to identify novel toxicological mechanisms, towards eliminating toxic chemicals from our environment.

Awards and Fellowships

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

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	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

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

Academic Services

2016-current Faculty adviser for Chemistry-Chemical Biology students
2016-current Executive/Long Range Planning committee for Nutritional Sciences and Toxicology
2016-current 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 CNR Student Faculty Relations Committee
2014 Molecular and Cell Biology Cancer Faculty Search Committee
2014 Speaker for CalSO Faculty Showcase
2013-current Metabolic Biology Graduate Affairs Committee
2012-current Regents' and Chancellors' Scholarship Faculty Mentor (for 8 students)
2012 Faculty Selection committee for the Nutritional Sciences and Toxicology Department
2012-current Seminar Speaker Selection Committee
2011-current Undergraduate Affairs Committee
2011-current Molecular Toxicology Graduate Affairs Committee

Professional Services

2016-current Study section 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, Chemical Neurosciences, Chemical Reviews, Nature, 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, eLife, ACS Chemical Biology, Journal of Biological Chemistry, Cell Chemical Biology, eLife

Teaching

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 (NST11)
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)

Publications**In progress**

- Anderson KE, Bateman LA, **Nomura DK**. Reactive Fragment Screen Coupled with Chemoproteomics Reveals a Protein Interaction Site in Thioredoxin as Novel Breast Cancer Druggable Hotspot. Under review.
- Grossman E*, Ward CC*, Bateman LA, Huffman TR, Miyamoto DK, **Nomura DK**. Covalent ligand discovery against druggable hotspots targeted by anti-cancer natural products. Under review. (*co-first authorship)

2017

1. Ward CC, **Nomura DK**. (2017) NHS-esters as versatile reactivity-based probes for mapping proteome-wide ligandable hotspots. In final revisions at *ACS Chemical Biology*.
2. 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* doi: 10.1039/C7CC01480E. (#co-first authors; *co-corresponding author)
3. 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* doi: 10.1021/acscchembio.6b01159. PMID 28248089
4. Bateman LA, Ku W-M, Heslin MJ, Contreras CM, Skibola CF, **Nomura DK**. (2017) ASS1 is an important metabolic regulator of colorectal cancer. In press at *ACS Chemical Biology* doi: 10.1021/acscchembio.6b01158. PMID 28229591
5. 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. In press at *Science*.
6. 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* doi: 10.1021/acscchembio.7b00020. PMID 28186401
7. 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* doi: 10.1021/acscchembio.6b01001. PMID 28094496
8. 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* doi: 10.1016/j.immuni.2017.02.018. PMID 28314591
9. Anderton B, Camarda R, Balkrishnan S, Balakrishnan A, Kohz 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* doi: 10.15252/embr.201643068. PMID 28219903
10. 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
11. 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
12. 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
13. 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

14. 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.
15. 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* DOI: 10.1021/acsinfecdis.6b00106.
16. 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
17. 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* doi: 10.1021/acscchembio.6b00433. PMID 27380425
18. 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)
19. 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
20. 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
21. 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
22. 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*. Feb 23. pii: S1550-4131(16)30012-2. doi: 10.1016/j.cmet.2016.01.019. PMID 26924217
23. **Nomura DK**, Casida JE (2016) Lipases and their inhibitors in health and disease. In press at *Chemico-Biological Interactions*.
24. 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* Doi: 10.1038/nm.4055. PMID 26950360.
25. Saghatelian A, **Nomura DK**, Weerapana E (2016) Omics: The maturation of chemical biology. *Current Opinions in Chemical Biology* 30: v-vi. PMID 26739665
26. 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

27. 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
28. 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* doi: 10.1021/acscchembio.5b00466. PMID 26322624 ([#]co-first authors; * co-corresponding authors).
29. 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* pii: ftv066. PMID26319139.
30. 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.
31. 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.

32. 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
33. 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
34. 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
35. 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

36. 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.
37. 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
38. 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*. Doi: 10.1021/cb500717g. PMID: 25343321.
39. Medina-Cleghorn D, **Nomura DK**. (2014) Exploring metabolic pathways and regulation through functional chemoproteomic and metabolomic platforms. *Chemistry & Biology* 21, 1171-1184. PMID: 25237861.
40. Cai X, Perttula K, Pajouh SK, Hubbard A, **Nomura DK**, Rappaport SM. (2014) Untargeted lipidomic profiling of human plasma reveals differences due to race, gender, and smoking status. *Metabolomics: Open Access* 4, 1000131.
41. Mulvihill MM, **Nomura DK**. (2014) Metabolomic Strategies to Map Functions of Metabolic Pathways. *AJP Metabolism and Endocrinology* 307, E237-E244. PMID: 24918200
42. 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.
43. Mulvihill MM, Benjamin DI, LeScolan E, Ji X, Shieh A, Green M, Narasimhalu T, Morris PJ, Luo K, **Nomura DK**. (2014) Metabolic Profiling Reveals PAFAH1B3 as a critical driver of breast cancer pathogenicity. *Chemistry & Biology* 21, 831-840. PMID: 24954006
44. 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
45. 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
46. 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
47. Hunerdosse D, **Nomura DK**. (2014) Activity-based proteomic and metabolomic approaches for understanding metabolism. *Current Opinion in Biotechnology* 28C, 116-126. PMID 24594637
48. 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

49. 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
50. 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

51. **Nomura DK**, Cravatt BF. (2013) Lipid Metabolism in Cancer. *Biochimica et Biophysica Acta—Molecular and Cell Biology of Lipids* 1831, 1497-1498. PMID: 23921253
52. 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
53. 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)
54. 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
55. Medina-Cleghorn D, **Nomura DK**. (2013) Chemical Approaches to Study Metabolic Networks. *Pflugers Archive* 465,427-440. PMID: 23296751
56. 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)
57. Mulvihill MM, **Nomura DK**. (2013) Therapeutic Potential of Monoacylglycerol Lipase Inhibitors. *Life Sciences* 92, 492-497. PMID: 23142242

2012

58. 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
59. Benjamin DI, Cravatt BF, **Nomura DK**. (2012) Global Profiling Strategies towards Mapping Dysregulated Metabolic Pathways in Cancer. *Cell Metabolism* 16, 565-567. PMID: 23063552
60. 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

61. **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)
62. 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)

63. **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)
64. 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

65. 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
66. 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
67. 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
68. **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)
69. 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
70. 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
71. 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
72. 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
73. **Nomura DK**, Dix MM, Cravatt BF. (2010) Chemoproteomic Approaches for Biochemical Pathway Discovery in Cancer. *Nature Reviews Cancer* 10, 630-638. PMID: 20703252
74. **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
75. 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
76. 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
77. 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)
78. **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
79. 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
80. **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
81. **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

82. **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
83. 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
84. **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
85. 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
86. 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
87. 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
88. 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**, Roberts LS, Ward CC. (2017) Compositions for treating breast cancer. Provisional Application for Patent; Attorney Docket Number 52013-501P01US.
2. **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.
3. **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.
4. **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.
5. **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.
6. Cravatt BF, **Nomura DK**, Chang JW, Moellering M, Bachovchin, D, Li, W. (2011) Anti-cancer serine hydrolase inhibitory carbamates. PCT/US2011/057321.
7. 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) Using Chemoproteomic and Metabolomic Platforms to Map Drivers of Human Disease, UCSF Breast Oncology Program Seminar, San Francisco, CA.
2. 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.
3. 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.
4. Invited Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, The University of Sydney Charles Perkin Centre, Sydney, Australia.
5. Keynote Speaker: **Nomura DK** (2016) Using Chemoproteomic Platforms for Drug Discovery and Toxicology, Third Australian Lipids Meeting, Melbourne, Australia.

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

32. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Metabolic Pathways in Disease Using Chemoproteomic and Metabolomic Platforms, University of Chicago, Chicago, IL.
33. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Lipid Metabolism in Disease using Chemoproteomic and Metabolomic Platforms, RIKEN, Yokohama, Japan.
34. Invited Speaker: **Nomura DK** (2015) Mapping Dysregulated Lipid Metabolism in Disease using Chemoproteomic and Metabolomic Platforms, Phospholipase Meeting, Tokyo, Japan.
35. Seminar speaker: **Nomura DK** (2014) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology, UC Berkeley, Nutritional Sciences and Toxicology Department
36. 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.
37. Invited Speaker: **Nomura DK** (2014) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology, Genentech, South San Francisco, CA Investigative Toxicology Division
38. Poster: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Searle Scholars Meeting, Chicago, IL.
39. Invited Speaker: **Nomura DK** (2014) Mapping Dysregulated Lipid Metabolism in Cancer using Chemoproteomic and Metabolomic Platforms, ASBMB meeting, San Diego, CA.
40. Invited Speaker: **Nomura DK** (2014) Mapping Dysregulated Lipid Metabolism in Cancer using Chemoproteomic and Metabolomic Platforms, Keystone Meeting on Tumor Metabolism, Whistler, Canada.
41. Invited Speaker: **Nomura DK** (2014) Validating Monoacylglycerol Lipase Inhibitors in Combatting Parkinson's Disease, Michael J Fox Foundation, New York, NY.
42. Invited Seminar Speaker: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, Karolinska Institute, Stockholm, Sweden.
43. Invited Seminar Speaker: **Nomura DK** (2014) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, University of Pavia, Pavia, Italy.
44. Invited Seminar Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, Novartis, Cambridge, MA.
45. Invited Seminar Speaker: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Disease using Chemoproteomic and Metabolomic Platforms, UC Merced, Merced, CA.
46. 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.
47. Keynote Speaker: **Nomura DK** (2013) Chemoproteomic and Metabolomic Strategies for Drug Discovery and Toxicology. NorCal Society of Toxicology meeting, South San Francisco, CA.
48. 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.
49. 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.
50. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates eicosanoids that promote inflammation. Gordon conference Molecular and Cellular Biology of Lipids, New Hampshire, NJ
51. Poster: **Nomura DK** (2013) Mapping dysregulated metabolic pathways in cancer. Gordon conference bioorganic chemistry, New Hampshire, NJ.
52. Poster: **Nomura DK** (2013) Mapping Dysregulated Metabolic Pathways in Cancer Using Functional Proteomic and Metabolomic Platforms, Searle Scholars Meeting, Chicago, IL.
53. 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
54. Invited Speaker: **Nomura DK** (2013) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. Seminar speaker at University of Minnesota, Minneapolis, MN.
55. Invited Speaker: **Nomura DK** (2012) Mapping dysregulated metabolic pathways in disease using functional proteomic and metabolomic platforms. Seminar speaker at Agilent, Santa Clara, CA.
56. Invited Speaker: **Nomura DK** (2012) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. Seminar speaker at Pfizer Neuroscience, Cambridge, MA.

57. 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.
58. Keynote Invited Speaker: **Nomura DK** (2012) Mapping dysregulated metabolic pathways in cancer using functional proteomic and metabolomic platforms. Austrian Proteomics Research Symposium, Graz, Austria.
59. Invited Speaker: **Nomura DK**. (2012) Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation. *International Cannabinoid Research Society* meeting, Freiberg, Germany.
60. Poster: **Nomura DK** and Samad TA (2012) Metabolomic profiling for mapping anti-inflammatory pathways in neurodegenerative disease. *Genetics and Chemistry Cell Symposium*, Cambridge, Massachusetts.
61. 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
62. 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.
63. Invited Speaker: **Nomura DK** (2011) Mapping dysregulated metabolic pathways in cancer using activity-based proteomics. American Chemical Society meeting, Denver, Colorado.
64. Invited Speaker: **Nomura DK**, Cravatt BF (2011) Mapping dysregulated metabolic pathways in cancer. American Association for Cancer Research meeting, Orlando, Florida.
65. 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.
66. Invited Speaker: **Nomura DK**. (2009) Chemical Approaches to Annotating Toxicological and Biological Systems. University of California Toxic Substances & Teaching Program Symposium, Berkeley, California.
67. 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.
68. 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.
69. 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.
70. 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
Raymond Ho (2017-current)	Undergraduate Researcher	
Sage Geher (2017-current)	Undergraduate Researcher	
Mai Luo (2016-current)	Visiting Grad Student	
Tamara Tomin (2016-current)	Visiting Grad Student	
Fernando Alvarez (2016-current)	Graduate Researcher	
Alex Renn (2016-current)	Undergraduate Researcher	
Jordan Kleinman (2016-current)	Undergraduate Researcher	
Ashley Ives (2016-current)	Undergraduate Researcher	
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)	Undergraduate Researcher	
Joseph Hendricks (2016-current)	Undergraduate Researcher	
Anna Flury (2016-2016)	Lab Assistant	
Haley Lehtola (2016-current)	Undergraduate Researcher	
Yana Petri (2016-current)	Undergraduate Researcher	
Justin Wang (2016-current)	Undergraduate Researcher	

Ivan Atencio (2016-current)	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-current)	Undergraduate Researcher	
Kimberly Anderson (2015-current)	Graduate Researcher	
Melanie Hubbuck (2015-current)	Graduate Researcher	
Megan Duckering (2015-2016)	Undergraduate Researcher	
Angela Yang (2015-2015)	Undergraduate Researcher	
Charles Berdan (2014-current)	Graduate Researcher	
Wan-Min Ku (2014-current)	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-current)	Undergraduate Researcher	
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 Research Assistant at Genentech Postdoc at Stanford in Mary Teruel Lab
Yoav Azaria (2012-2014)	Undergraduate Researcher	
Devon Hunerdosse (2012-2015)	Graduate Researcher	
Lindsay Roberts (2012-current)	Graduate Researcher	
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
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-current)	Graduate Researcher	
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	

Ongoing Research Support

Nomura, D.K.

R01CA172667

Nomura (PI)

3/1/13-2/31/18

NIH/NCI

Annotating the Role of Dysregulated Inositol Phosphate Metabolism in Malignant Cancers

Investigating the role of inositol polyphosphate phosphatase (INPP1) in driving cancer metabolism and pathogenicity

Nomura, D.K.

BASF-CARA Award

Nomura (PI)

8/1/2014-7/31/2017

BASF

Using Chemical Systems Biology Platforms for Advancing Nutrition and Toxicology

Using advanced metabolomic, proteomic, chemoproteomic, and transcriptomic platforms to understand nutrition and toxicology.

Nomura, D.K.

DOD Breakthroughs Award

Nomura (PI)

7/1/2015-6/30/2018

CDMRP W81XWH-15-1-0050

Department of Defense Breast Cancer Research Program

Characterizing PAFAH1B3 as a Novel Metabolic Target for Breast Cancer

Determining the metabolic and pathophysiological roles of PAFAH1B3 in breast cancer.

Nomura, D.K.

ACS Research Scholar Award

Nomura (PI)

1/1/2015-12/31/2017

RSG-14-242-01-TBE

American Cancer Society

Characterizing the Role of AGPS and Ether Lipids in Driving Cancer

Determining the metabolic and pathophysiological roles of AGPS and ether lipids in breast cancer.

Nomura, D.K. (Subaward)

P50GM115318

Krauss (PI)

10/1/2015-9/30/2020

NIH/NIGMS

Pharmacogenomics of statin response

Identify, validate, and determine the function of novel markers for efficacy of statins in prevention of cardiovascular disease, and for occurrence of adverse events on statin treatment.

Previous Research Support

Nomura, D.K. (Core C Leader: Analytical Chemistry)

P42ES004705

Smith MT (PI)

4/1/2011-3/31/2017

NIH/NIEHS

Role: Core Leader

Toxic Substances in the Environment; (Core C: Proteomics and Metabolomics)

Process, maintain, and store biological samples, and store cell culture lines for *in vitro* studies; provide facilities, methodologies, and bioinformatics capabilities for proteomic and metabolomics data analysis for Superfund investigators

Nomura, D.K.

Searle Scholars Program

Nomura (PI)

7/1/12-6/30/15

Searle Scholars Program

Mapping Dysregulated Metabolic Pathways in Cancer and Inflammatory Diseases

Identifying and characterizing the roles of commonly perturbed enzymatic pathways across multiple types of malignant human cancer cells; studying the role of monoacylglycerol lipase in coordinately regulating endocannabinoid and eicosanoid signaling to modulate neuroinflammation and neurodegeneration

