

1. Baldwin, J., C.H. Michnoff, N.A. Malmquist, J. White, M.G. Roth, P.K. Rathod, and M.A. Phillips, High-throughput Screening for Potent and Selective Inhibitors of Plasmodium falciparum Dihydroorotate Dehydrogenase. *Journal of Biological Chemistry*, 2005. 280(23): p. 21847-21853.
2. Chen, X., J. Longgood, C. Michnoff, S. Wei, D.E. Frantz, and I. Bezprozvanny, High-throughput Screen for Small Molecule Inhibitors of Mint1-PDZ Domains. *Assay and Drug Development Technologies*, 2007. 5(6): p. 769-783.
3. Germanas, J.P., S. Wang, A. Miner, W. Hao, and J.M. Ready, Discovery of small-molecule inhibitors of tyrosinase. *Bioorganic & Medicinal Chemistry Letters*, 2007. 17(24): p. 6871-6875.
4. Phillips, M.A., P.K. Rathod, J. Baldwin, and R. Gujjar, Dihydroorotate dehydrogenase inhibitors with selective anti-malarial activity. 2007: USA.
5. Whitehurst, A., B. Bodemann, J. Cardenas, D. Ferguson, L. Girard, M. Pay-ton, J. Minna, C. Michnoff, et al., Synthetic lethal screen identification of chemosensitizer loci in cancer cells. *Nature*, 2007. 446: p. 815 - 819.
6. Falck, J.R., D. Stewart, and V. Sperandio, Methods of Inhibiting Bacterial Virulence and Compounds Relating Thereto, in UTSD: 1854USP1. 2008.
7. Ganesan, A.K., H. Ho, B. Bodemann, S. Petersen, J. Aruri, S. Koshy, Z. Richardson, L.Q. Le, et al., Genome-wide siRNA-based functional genomics of pigmentation identifies novel genes and pathways that impact melanogenesis in human cells. *PLoS Genetics*, 2008. 4(12): p. 1-12.
8. Malmquist, N.A., R. Gujjar, P.K. Rathod, and M.A. Phillips, Analysis of Flavin Oxidation and Electron-Transfer Inhibition in Plasmodium falciparum Dihydroorotate Dehydrogenase†. *Biochemistry*, 2008. 47(8): p. 2466-2475.
9. Phillips, M.A., R. Gujjar, N.A. Malmquist, J. White, M.F. El, J. Baldwin, and P.K. Rathod, Triazolopyrimidine-Based Dihydroorotate Dehydrogenase Inhibitors with Potent and Selective Activity against the Malaria Parasite Plasmodium falciparum. *J. Med. Chem.*, 2008. 51(Copyright (C) 2010 American Chemical Society (ACS). All Rights Reserved.): p. 3649-3653.
10. Phillips, M.A., P.K. Rathod, J. Baldwin, and R. Gujjar, Dihydroorotate dehydrogenase inhibitors with selective anti-malarial activity. 2008: United States. WO Patent 2007149211 A1, US Patent 20080027079 A1
11. Rasko, D.A., C.G. Moreira, D.R. Li, N.C. Reading, J.M. Ritchie, M.K. Waldor, N. Williams, R. Taussig, et al., Targeting QseC Signaling and Virulence for Antibiotic Development. *Science*, 2008. 321(5892): p. 1078-1080.
12. Roth, M., B. Fontoura, S. Wei, and N. Satterly, NS1 Protein Inhibitors. 2008: United States.
13. Sadek, H., B. Hannack, E. Choe, J. Wang, S. Latif, M.G. Garry, D.J. Garry, J. Longgood, et al., Cardiogenic small molecules that enhance myocardial repair by stem cells. *Proceedings of the National Academy of Sciences*, 2008. 105(16): p. 6063-6068.
14. Schneider, J., J. Hsieh, D. Frantz, S.L. McKnight, and J.M. Ready, Preparation of isoxazoles or pyrazoles as inducers of neurogenesis for treating disease. 2008, The University of Texas System, USA . p. 128 pp. WO 2008046072 A2 20080417
15. Schneider, J.W., Z. Gao, S. Li, M. Farooqi, T.-S. Tang, I. Bezprozvanny, D.E. Frantz, and J. Hsieh, Small-molecule activation of neuronal cell fate. *Nat Chem Biol*, 2008. 4(7): p. 408-410.
16. Tang, W., M. Dodge, D. Gundapaneni, C. Michnoff, M. Roth, and L. Lum, A genome-wide RNAi screen for Wnt/ β -catenin pathway components identifies unexpected roles for TCF transcription factors in cancer. *Proc. Natl. Acad. Sci. U. S. A.*, 2008. 105: p. 9697-9702.
17. Cao, J., X.-J. Xie, S. Zhang, A. Whitehurst, and M. White, Bayesian optimal discovery procedure for simultaneous significance testing. *BMC Bioinformatics*, 2009. 10(1): p. 5.

18. Chen, B., M.E. Dodge, W. Tang, J. Lu, Z. Ma, C.-W. Fan, S. Wei, W. Hao, et al., Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. *Nat. Chem. Biol.*, 2009. 5: p. 100-107.
19. Chew, S.K., P. Chen, N. Link, K.A. Galindo, K. Pogue, and J.M. Abrams, Genome-wide silencing in *Drosophila* captures conserved apoptotic effectors. *Nature*, 2009. 460(7251): p. 123-127.
20. Gujjar, R., A. Marwaha, F. El Mazouni, J. White, K.L. White, S. Creason, D.M. Shackleford, J. Baldwin, et al., Identification of a Metabolically Stable Triazolopyrimidine-Based Dihydroorotate Dehydrogenase Inhibitor with Antimalarial Activity in Mice. *Journal of Medicinal Chemistry*, 2009. 52(7): p. 1864-1872.
21. He, S., L. Wang, L. Miao, T. Wang, F. Du, L. Zhao, and X. Wang, Receptor interacting protein kinase-3 determines cellular necrotic response to TNF- α . *Cell (Cambridge, MA, U. S.)*, 2009. 137: p. 1100-1111.
22. Lum, L., M. Roth, B. Chen, C. Chen, M. Dodge, and W. Tang, Wnt protein signalling inhibitors. 2009, The University of Texas System, USA . p. 147. WO 200915501 A2 20091223
23. Phillips, M.A., P.K. Rathod, R. Gujjar, A. Marwaha, and S. Charman, Dihydroorotate Dehydrogenase Inhibitors With Selective Anti-malarial Activity. 2009: United States. WO Patent 2009/082691
24. Salahudeen, A.A., J.W. Thompson, J.C. Ruiz, H.-W. Ma, L.N. Kinch, Q. Li, N.V. Grishin, and R.K. Bruick, An E3 Ligase Possessing an Iron-Responsive Hemerythrin Domain Is a Regulator of Iron Homeostasis. *Science*, 2009. 326(5953): p. 722-726.
25. Wang, J., P. Alexander, L. Wu, R. Hammer, O. Cleaver, and S.L. McKnight, Dependence of Mouse Embryonic Stem Cells on Threonine Catabolism. *Science (Washington, DC, U. S.)*, 2009. 325: p. 435-439.
26. Wang, X., S. He, and L. Wang, Cell-based necrosis assay in mammalian cell expressing RIPK1 and RIP3, and use for screening necrosis inhibitors. 2009, Board of Regents, The University of Texas System, USA . p. 10pp. US 7622106
27. Karner, C.M., C.E. Merkel, M. Dodge, Z. Ma, J. Lu, C. Chen, L. Lum, and T.J. Carroll, Tankyrase is necessary for canonical Wnt signaling during kidney development. *Dev. Dyn.*, 2010. 239: p. 2014-2023.
28. Komurov, K., D. Padron, T. Cheng, M. Roth, K.P. Rosenblatt, and M.A. White, Comprehensive Mapping of the Human Kinome to Epidermal Growth Factor Receptor Signaling. *Journal of Biological Chemistry*, 2010. 285(27): p. 21134-21142.
29. McKnight, S.L., A.A. Pieper, J.M. Ready, and B.J. De, Preparation of carbazolylaminopropanols and related compounds as pro-neurogenic compounds. 2010, University of Texas Southwestern Medical Center, USA . p. 222pp. WO 2010081115 A1 20100715
30. McKnight, S.L. and J. Wang, Methods for engineering stem cells to facilitate threonine catabolism by inducing expression of L-threonine 3-dehydrogenase transgene. 2010, University of Texas, USA . p. 10pp. US 20100319078 A1 20101216
31. Pieper, A.A., S. Xie, E. Capota, S.J. Estill, J. Zhong, J.M. Long, G.L. Becker, P. Huntington, et al., Discovery of a proneurogenic, neuroprotective chemical. *Cell (Cambridge, MA, U. S.)*, 2010. 142: p. 39-51.
32. Qi, X., L. Wang, and F. Du, Novel Small Molecules Relieve Prothymosin α -Mediated Inhibition of Apoptosome Formation by Blocking Its Interaction with Apaf-1. *Biochemistry*, 2010. 49(9): p. 1923-1930.
33. Whitehurst, A.W., Y. Xie, S.C. Purinton, K.M. Cappell, J.T. Swanik, B. Larson, L. Girard, J.O. Schorge, et al., Tumor Antigen Acrosin Binding Protein Normalizes Mitotic Spindle Function to Promote Cancer Cell Proliferation. *Cancer Res.*, 2010. 70(19): p. 7652-7661.

34. Alexander, P.B., J. Wang, and S.L. McKnight, Targeted killing of a mammalian cell based upon its specialized metabolic state. *Proceedings of the National Academy of Sciences*, 2011. 108(38): p. 15828-15833.
35. Cenik, B., C.F. Sephton, C.M. Dewey, X. Xian, S. Wei, K. Yu, W. Niu, G. Coppola, et al., Suberoylanilide Hydroxamic Acid (Vorinostat) Up-regulates Progranulin Transcription. *Journal of Biological Chemistry*, 2011. 286(18): p. 16101-16108.
36. Coteron, J.M., M.a. Marco, J. Esquivias, X. Deng, K.L. White, J. White, M. Koltun, F. El Mazouni, et al., Structure-Guided Lead Optimization of Triazolopyrimidine-Ring Substituents Identifies Potent Plasmodium falciparum Dihydroorotate Dehydrogenase Inhibitors with Clinical Candidate Potential. *Journal of Medicinal Chemistry*, 2011. 54(15): p. 5540-5561.
37. Ganesan, S.M., J.M. Morrissey, H. Ke, H.J. Painter, K. Laroiya, M.A. Phillips, P.K. Rathod, M.W. Mather, et al., Yeast dihydroorotate dehydrogenase as a new selectable marker for Plasmodium falciparum transfection. *Molecular and Biochemical Parasitology*, 2011. 177(1): p. 29-34.
38. Gujjar, R., F. El Mazouni, K.L. White, J. White, S. Creason, D.M. Shackleford, X. Deng, W.N. Charman, et al., Lead Optimization of Aryl and Aralkyl Amine-Based Triazolopyrimidine Inhibitors of Plasmodium falciparum Dihydroorotate Dehydrogenase with Antimalarial Activity in Mice. *Journal of Medicinal Chemistry*, 2011. 54(11): p. 3935-3949.
39. Hu, Y., A.P.D.M. Espindola, N.A. Stewart, S. Wei, B.A. Posner, and J.B. MacMillan, Chromomycin SA analogs from a marine-derived Streptomyces sp. *Bioorganic & Medicinal Chemistry*, 2011. 19(17): p. 5183-5189.
40. MacMillan, K.S., J. Naidoo, J. Liang, L. Melito, N.S. Williams, L. Morlock, P.J. Huntington, S.J. Estill, et al., Development of Proneurogenic, Neuroprotective Small Molecules. *J. Am. Chem. Soc.*, 2011. 133(5): p. 1428-1437.
41. Mata, M.A., N. Satterly, G.A. Versteeg, D. Frantz, S. Wei, N. Williams, M. Schmolke, S. Pena-Llopis, et al., Chemical inhibition of RNA viruses reveals REDD1 as a host defense factor. *Nat Chem Biol*, 2011. 7(10): p. 712-719.
42. McKnight, S.L., A.A. Pieper, J.M. Ready, and J.K. De Brabander, Preparation of carbazolyaminopropanols and related compounds as pro-neurogenic compounds. 2011. WO 2012006419
43. McKnight, S.L., A.A. Pieper, J.M. Ready, and J.K. De Brabander, Pro-neurogenic compounds. 2011. WO 2012006419
44. Orvedahl, A., R.S. Jr, G. Xiao, A. Ng, Z. Zou, Y. Tang, M. Narimatsu, C. Gilpin, et al., Image-based genome-wide siRNA screen identifies selective autophagy factors. *Nature*, 2011. 480(7375): p. 113-117.
45. Phillips, M.A., P.K. Rathod, S. Charman, D. Floyd, J. Burrows, G. Matthews, A. Marwaha, R. Gujjar, et al., Antimalarial agents that are inhibitors of dihydroorotate dehydrogenase. 2011: USA. WO 2011/041304
46. Wu, X. and B.P. Tu, Selective regulation of autophagy by the Iml1-Npr2-Npr3 complex in the absence of nitrogen starvation. *Molecular Biology of the Cell*, 2011. 22(21): p. 4124-4133.
47. Chen, P., X. Tu, F. Akdemir, S.K. Chew, A. Rothenfluh, and J.M. Abrams, Effectors of alcohol-induced cell killing in Drosophila. *Cell Death Differ*, 2012. 19(10): p. 1655-1663.
48. Fontoura, B., A. Garcia-Sastre, G. Versteeg, M. Roth, and N. Satterly, Viral inhibitors. 2012, The University of Texas System, USA; Mount Sinai School of Medicine WO 2012115945
49. Hu, Y., E.D. Martinez, and J.B. MacMillan, Anthraquinones from a Marine-Derived Streptomyces spinoverrucosus. *Journal of Natural Products*, 2012. 75(10): p. 1759-1764.

50. McKnight, S.L., A.A. Pieper, J.M. Ready, and J.K. De Brabander, Pro-neurogenic compounds. 2012. US 20110003836
51. Pan, E., M. Jamison, M. Yousufuddin, and J.B. MacMillan, Ammosamide D, an Oxidatively Ring Opened Ammosamide Analog from a Marine-Derived *Streptomyces variabilis*. *Organic Letters*, 2012. 14(9): p. 2390-2393.
52. Russell, J.L., S.C. Goetsch, H.R. Aguilar, H. Coe, X. Luo, N. Liu, E. van Rooij, D.E. Frantz, et al., Regulated Expression of pH Sensing G Protein-Coupled Receptor-68 Identified through Chemical Biology Defines a New Drug Target for Ischemic Heart Disease. *ACS Chemical Biology*, 2012. 7(6): p. 1077-1083.
53. Somalinga, B.R., C.E. Day, S. Wei, M.G. Roth, and P.J. Thomas, TDP-43 Identified from a Genome Wide RNAi Screen for SOD1 Regulators. *PLoS ONE*, 2012. 7(4): p. e35818.
54. Sun, L., H. Wang, Z. Wang, S. He, S. Chen, D. Liao, L. Wang, J. Yan, et al., Mixed Lineage Kinase Domain-like Protein Mediates Necrosis Signaling Downstream of RIP3 Kinase. *Cell*, 2012. 148(1–2): p. 213-227.
55. Wang, X., J.B. MacMillan, S. Huang, and M. Fang, Ectonucleoside triphosphate diphosphohydrolase-5 (ENTPD-5) inhibitors for treatment of cancer. 2012, The University of Texas System: United States.
56. Wang, Z., H. Jiang, S. Chen, F. Du, and X. Wang, The Mitochondrial Phosphatase PGAM5 Functions at the Convergence Point of Multiple Necrotic Death Pathways. *Cell*, 2012. 148(1–2): p. 228-243.
57. Zhang, L., P. Das, M. Schmolke, B. Manicassamy, Y. Wang, X. Deng, L. Cai, B.P. Tu, et al., Inhibition of pyrimidine synthesis reverses viral virulence factor-mediated block of mRNA nuclear export. *The Journal of Cell Biology*, 2012. 196(3): p. 315-326.
58. Hu, Y., M.B. Potts, D. Colosimo, M.L. Herrera-Herrera, A.G. Legako, M. Yousufuddin, M.A. White, and J.B. MacMillan, Discoipyrroles A–D: Isolation, Structure Determination, and Synthesis of Potent Migration Inhibitors from *Bacillus hunanensis*. *Journal of the American Chemical Society*, 2013. 135(36): p. 13387-13392.
59. Kilgore, J.A., X. Du, L. Melito, S. Wei, C. Wang, H.G. Chin, B. Posner, S. Pradhan, et al., Identification of DNMT1 Selective Antagonists Using a Novel Scintillation Proximity Assay. *Journal of Biological Chemistry*, 2013. 288(27): p. 19673-19684.
60. Kim, Hyun S., S. Mendiratta, J. Kim, Chad V. Pecot, Jill E. Larsen, I. Zubovych, Bo Y. Seo, J. Kim, et al., Systematic Identification of Molecular Subtype-Selective Vulnerabilities in Non-Small-Cell Lung Cancer. *Cell*, 2013. 155(3): p. 552-566.
61. Liu, Y., S. Shoji-Kawata, R.M. Sumpter, Y. Wei, V. Ginet, L. Zhang, B. Posner, K.A. Tran, et al., Autosis is a Na⁺, K⁺-ATPase–regulated form of cell death triggered by autophagy-inducing peptides, starvation, and hypoxia–ischemia. *Proceedings of the National Academy of Sciences*, 2013. 110(51): p. 20364-20371.
62. O’Neal, M.A., B.A. Posner, C.J. Coates, and J.M. Abrams, A Cell-Based Screening Platform Identifies Novel Mosquitocidal Toxins. *Journal of Biomolecular Screening*, 2013. 18(6): p. 688-694.
63. Pan, E., N.W. Oswald, A.G. Legako, J.M. Life, B.A. Posner, and J.B. MacMillan, Precursor-directed generation of amidine containing ammosamide analogs: ammosamides E-P. *Chemical Science*, 2013. 4(1): p. 482-488.
64. Potts, M.B., H.S. Kim, K.W. Fisher, Y. Hu, Y.P. Carrasco, G.B. Bulut, Y.-H. Ou, M.L. Herrera-Herrera, et al., Using Functional Signature Ontology (FUSION) to Identify Mechanisms of Action for Natural Products. *Sci. Signal.*, 2013. 6(297): p. ra90-.
65. Rogers, J.L., L. Bayeh, T.H. Scheuermann, J. Longgood, J. Key, J. Naidoo, L. Melito, C. Shokri, et al., Development of Inhibitors of the PAS-B Domain of the HIF-2 α Transcription Factor. *Journal of Medicinal Chemistry*, 2013. 56(4): p. 1739-1747.

66. Scheuermann, T.H., Q. Li, H.-W. Ma, J. Key, L. Zhang, R. Chen, J.A. Garcia, J. Naidoo, et al., Allosteric inhibition of hypoxia inducible factor-2 with small molecules. *Nat Chem Biol*, 2013. 9(4): p. 271-276.
67. Tang, H., G. Xiao, C. Behrens, J. Schiller, J. Allen, C.-W. Chow, M. Suraokar, A. Corvalan, et al., A 12-Geneset Predicts Survival Benefits from Adjuvant Chemotherapy in Non-Small Cell Lung Cancer Patients. *Clin. Cancer Res.*, 2013. 19(6): p. 1577-1586.
68. Wang, G., X. Wang, H. Yu, S. Wei, N. Williams, D.L. Holmes, R. Halfmann, J. Naidoo, et al., Small-molecule activation of the TRAIL receptor DR5 in human cancer cells. *Nat Chem Biol*, 2013. 9(2): p. 84-89.
69. Zhong, R., M.S. Kim, M.A. White, Y. Xie, and G. Xiao, SbacHTS: Spatial background noise correction for High-Throughput RNAi Screening. *Bioinformatics*, 2013. 29(17): p. 2218-2220.
70. BRUICK, R., C. CALDWELL, D. FRANTZ, K.H. GARDNER, J. MACMILLAN, T.H. SCHEUERMANN, and U. TAMBAR, INHIBITION OF HIF-2[alpha] HETERODIMERIZATION WITH HIF1[beta] (ARNT). 2014, UNIV TEXAS. WO2014078479 (A3); WO2014078479 (A2)
71. Chau, V., S.K. Lim, W. Mo, C. Liu, A.J. Patel, R.M. McKay, S. Wei, B.A. Posner, et al., Preclinical Therapeutic Efficacy of a Novel Pharmacologic Inducer of Apoptosis in Malignant Peripheral Nerve Sheath Tumors. *Cancer Research*, 2014. 74(2): p. 586-597.
72. Comerford, Sarah A., Z. Huang, X. Du, Y. Wang, L. Cai, Agnes K. Witkiewicz, H. Walters, Mohammed N. Tantawy, et al., Acetate Dependence of Tumors. *Cell*, 2014. 159(7): p. 1591-1602.
73. Díaz-Martínez, L.A., Z.N. Karamysheva, R. Warrington, B. Li, S. Wei, X.-J. Xie, M.G. Roth, and H. Yu, Genome-wide siRNA screen reveals coupling between mitotic apoptosis and adaptation. *The EMBO Journal*, 2014. 33(17): p. 1960-1976.
74. Fan, C.-W., B. Chen, I. Franco, J. Lu, H. Shi, S. Wei, C. Wang, X. Wu, et al., The Hedgehog Pathway Effector Smoothed Exhibits Signaling Competency in the Absence of Ciliary Accumulation. *Chemistry & Biology*, 2014. 21(12): p. 1680-1689.
75. Fu, P., M. Jamison, S. La, and J.B. MacMillan, Inducamides A–C, Chlorinated Alkaloids from an RNA Polymerase Mutant Strain of *Streptomyces* sp. *Organic Letters*, 2014. 16(21): p. 5656-5659.
76. Fu, P., M. Johnson, H. Chen, B.A. Posner, and J.B. MacMillan, Carpatamides A–C, Cytotoxic Arylamine Derivatives from a Marine-Derived *Streptomyces* sp. *Journal of Natural Products*, 2014. 77(5): p. 1245-1248.
77. Iscla, I., R. Wray, S. Wei, B. Posner, and P. Blount, Streptomycin potency is dependent on MscL channel expression. *Nat Commun*, 2014. 5.
78. Liao, D., L. Sun, W. Liu, S. He, X. Wang, and X. Lei, Necrosulfonamide inhibits necroptosis by selectively targeting the mixed lineage kinase domain-like protein. *MedChemComm*, 2014. 5(3): p. 333-337.
79. Morrison, S.J., E. Piskounova, and U. Eskicok, Treatments for Melanoma, in United States, U. States, Editor. 2014: United States. US 2014/0080772 A1
80. Tso, S.-C., W.-J. Gui, C.-Y. Wu, J.L. Chuang, X. Qi, K.J. Skvorak, K. Dorko, A.L. Wallace, et al., Benzothiophene Carboxylate Derivatives as Novel Allosteric Inhibitors of Branched-chain α -Ketoacid Dehydrogenase Kinase. *Journal of Biological Chemistry*, 2014. 289(30): p. 20583-20593.
81. Wang, G., T. Han, D. Nijhawan, P. Theodoropoulos, J. Naidoo, S. Yadavalli, H. Mirzaei, Andrew A. Pieper, et al., P7C3 Neuroprotective Chemicals Function by Activating the Rate-Limiting Enzyme in NAD Salvage. *Cell*, 2014. 158(6): p. 1324-1334.
82. Yarbrough, M.L., K. Zhang, R. Sakthivel, C.V. Forst, B.A. Posner, G.N. Barber, M.A. White, and B.M.A. Fontoura, Primate-specific miR-576-3p sets host defense signalling threshold. *Nat Commun*, 2014. 5: p. 1 - 10.

83. Zhong, R., X. Dong, B. Levine, Y. Xie, and G. Xiao, iScreen: Image-Based High-Content RNAi Screening Analysis Tools. *Journal of Biomolecular Screening*, 2014.
84. Zhong, R., J. Kim, H.S. Kim, M. Kim, L. Lum, B. Levine, G. Xiao, M.A. White, et al., Computational detection and suppression of sequence-specific off-target phenotypes from whole genome RNAi screens. *Nucleic Acids Research*, 2014. 42(13): p. 8214-8222.
85. Fu, P. and J.B. MacMillan, Thiasporines A–C, Thiazine and Thiazole Derivatives from a Marine-Derived Actinomycetospora chlora. *Journal of Natural Products*, 2015. 78(3): p. 548-551.
86. Garcia-Rodriguez, J., S. Mendiratta, M.A. White, X.-S. Xie, and J.K. De Brabander, Synthesis and structure–activity studies of the V-ATPase inhibitor saliphenylhalamide (SalIPhe) and simplified analogs. *Bioorganic & Medicinal Chemistry Letters*, 2015. 25(20): p. 4393-4398.
87. Liu, Y. and B. Levine, Autosis and autophagic cell death: the dark side of autophagy. *Cell Death Differ*, 2015. 22(3): p. 367-376.
88. Scheuermann, T.H., D. Stroud, C.E. Sleet, L. Bayeh, C. Shokri, H. Wang, C.G. Caldwell, J. Longgood, et al., Isoform-Selective and Stereoselective Inhibition of Hypoxia Inducible Factor-2. *Journal of Medicinal Chemistry*, 2015. 58(15): p. 5930-5941.
89. Thorne, C.A., C. Wichaidit, A.D. Coster, B.A. Posner, L.F. Wu, and S.J. Altschuler, GSK-3 modulates cellular responses to a broad spectrum of kinase inhibitors. *Nat Chem Biol*, 2015. 11(1): p. 58-63.
90. Zhang, Y., A. Desai, S.Y. Yang, K.B. Bae, M.I. Antczak, S.P. Fink, S. Tiwari, J.E. Willis, et al., Inhibition of the prostaglandin-degrading enzyme 15-PGDH potentiates tissue regeneration. *Science*, 2015. 348(6240).
91. Chen, W., et al., Targeting renal cell carcinoma with a HIF-2 antagonist. *Nature*, 2016. 539(7627): p. 112-117.
92. Choi, S.H., et al., Transcriptional Inhibitors Identified in a 160,000-Compound Small-Molecule DUX4 Viability Screen. *Journal of Biomolecular Screening*, 2016. 21(7): p. 680-688.
93. Eskiocak, U., et al., Synergistic effects of ion transporter and MAP kinase pathway inhibitors in melanoma. *Nature Communications*, 2016. 7: p. 12336.
94. Evans, M.R., et al., An AlphaScreen Assay for the Discovery of Synthetic Chemical Inhibitors of Glucagon Production. *Journal of Biomolecular Screening*, 2016. 21(4): p. 325-332.
95. Fu, P., S. La, and J.B. MacMillan, 1,3-Oxazin-6-one Derivatives and Bohemamine-Type Pyrrolizidine Alkaloids from a Marine-Derived *Streptomyces spinoverrucosus*. *Journal of Natural Products*, 2016. 79(3): p. 455-462.
96. Fu, P.L., Aaron; La, Scott; MacMillan, John B, Discovery, characterization, and analog synthesis of bohemamine dimers generated by non-enzymatic biosynthesis. *Chemistry - A European Journal*, 2016. 22(10): p. 3491-3495.
97. Kang, J., et al., Improving drug discovery with high-content phenotypic screens by systematic selection of reporter cell lines. *Nat Biotech*, 2016. 34(1): p. 70-77.
98. Kaufman, Sarah K., et al., Tau Prion Strains Dictate Patterns of Cell Pathology, Progression Rate, and Regional Vulnerability In Vivo. *Neuron*, 2016. 92(4): p. 796-812.
99. Kim, J., et al., XPO1-dependent nuclear export is a druggable vulnerability in KRAS-mutant lung cancer. *Nature*, 2016. 538(7623): p. 114-117.
100. Piali, A.T., et al., Discovery of novel TAOK2 inhibitor scaffolds from high-throughput screening. *Bioorganic & Medicinal Chemistry Letters*, 2016. 26(16): p. 3923-3927.
101. Ramirez, M., et al., Diverse drug-resistance mechanisms can emerge from drug-tolerant cancer persister cells. *Nat Commun*, 2016. 7: p. 1.
102. Theodoropoulos, P.C., et al., Discovery of tumor-specific irreversible inhibitors of stearyl CoA desaturase. *Nat Chem Biol*, 2016. 12(4): p. 218-225.

103. Witkiewicz, Agnieszka K., et al., Integrated Patient-Derived Models Delineate Individualized Therapeutic Vulnerabilities of Pancreatic Cancer. *Cell Reports*, 2016. 16(7): p. 2017-2031.
104. Zhang, L., et al., Selective targeting of mutant adenomatous polyposis coli (*APC*) in colorectal cancer. *Science Translational Medicine*, 2016. 8(361): p. 361ra140-361ra140.
105. Zubovych, I.O., et al., A Novel Inhibitor of Topoisomerase I Is Selectively Toxic for a Subset of Non–Small Cell Lung Cancer Cell Lines. *Mol. Cancer Ther.*, 2016. 15(1): p. 23-36.
106. Antczak, M.I., et al., Inhibitors of 15-Prostaglandin Dehydrogenase To Potentiate Tissue Repair. *Journal of Medicinal Chemistry*, 2017. 60(9): p. 3979-4001.
107. Cooper, J.M., et al., TBK1 Provides Context-Selective Support of the Activated AKT/mTOR Pathway in Lung Cancer. *Cancer Research*, 2017. 77(18): p. 5077-5094.
108. Fu, P., S. La, and J.B. MacMillan, Daryamide Analogues from a Marine-Derived *Streptomyces* species. *Journal of Natural Products*, 2017. 80(4): p. 1096-1101.
109. Kishore, A.H., et al., Prostaglandin dehydrogenase is a target for successful induction of cervical ripening. *Proceedings of the National Academy of Sciences*, 2017. 114(31): p. E6427-E6436.
110. Mohanakrishnan, A., et al., A high-throughput assay to identify robust inhibitors of dynamin GTPase activity. *bioRxiv*, 2017.
111. Moon, J., et al., Blockade to pathological remodeling of infarcted heart tissue using a porcupine antagonist. *Proceedings of the National Academy of Sciences*, 2017. 114(7): p. 1649 - 1654.
112. Tagal, V., et al., SMARCA4-inactivating mutations increase sensitivity to Aurora kinase A inhibitor VX-680 in non-small cell lung cancers. *Nature Communications*, 2017. 8: p. 14098.
113. Volkov, O.A., et al., Identification of *Trypanosoma brucei* AdoMetDC Inhibitors Using a High-Throughput Mass Spectrometry-Based Assay. *ACS Infectious Diseases*, 2017. 3: p. 512 - 526.
114. Wang, C., et al., Small-molecule TFEB pathway agonists that ameliorate metabolic syndrome in mice and extend *C. elegans* lifespan. *Nature Communications*, 2017. 8(1): p. 2270.
115. Zhang, L. and J.W. Shay, Multiple Roles of APC and its Therapeutic Implications in Colorectal Cancer. *JNCI: Journal of the National Cancer Institute*, 2017. 109(8): p. djw332-djw332.
116. Zhou, H., et al., ZNF281 enhances cardiac reprogramming by modulating cardiac and inflammatory gene expression. *Genes & Development*, 2017. 31(17): p. 1770-1783.
117. Courtney, K.D., et al., Phase I Dose-Escalation Trial of PT2385, a First-in-Class Hypoxia-Inducible Factor-2 α Antagonist in Patients With Previously Treated Advanced Clear Cell Renal Cell Carcinoma. *Journal of Clinical Oncology*, 2018. 36(9): p. 867-874.
118. Desai, A., et al., A second-generation 15-PGDH inhibitor promotes bone marrow transplant recovery independent of age, transplant dose, and G-CSF support. *Haematologica*, 2018.
119. Luthra, P., et al., A high throughput screen identifies benzoquinoline compounds as inhibitors of Ebola virus replication. *Antiviral Research*, 2018. 150: p. 193-201.
120. McMillan, E.A., et al., Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. *Cell*, 2018. 173(4): p. 864-878.e29.
121. Min, Y.-L., et al., Identification of a multipotent Twist2-expressing cell population in the adult heart. *Proceedings of the National Academy of Sciences*, 2018.

122. Volkov, O.A., et al., Species-Selective Pyrimidineamine Inhibitors of Trypanosoma brucei S-Adenosylmethionine Decarboxylase. *Journal of Medicinal Chemistry*, 2018. 61(3): p. 1182-1203.
123. Winterton, S.E., et al., Discovery of Cytochrome P450 4F11 Activated Inhibitors of Stearoyl Coenzyme A Desaturase. *Journal of Medicinal Chemistry*, 2018. 61(12): p. 5199-5221.
124. Zhang, L., et al., Cholesterol Depletion by TASIN-1 Induces Apoptotic Cell Death through the ER Stress/ROS/JNK Signaling in Colon Cancer Cells. *Molecular Cancer Therapeutics*, 2018. 17(5): p. 943-951.
125. Kjalarsdottir, L., et al., 1,25-Dihydroxyvitamin D3 enhances glucose-stimulated insulin secretion in mouse and human islets: a role for transcriptional regulation of voltage-gated calcium channels by the vitamin D receptor. *The Journal of Steroid Biochemistry and Molecular Biology*, 2019. 185: p. 17-26.