

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Stone, Jana E (1999-2006)	Tom Petes	1: Stone JE, Ozbirn RG, Petes TD, Jinks-Robertson S. Role of proliferating cell nuclear antigen interactions in the mismatch repair-dependent processing of mitotic and meiotic recombination intermediates in yeast. <i>Genetics</i> (2008) 178: 1221-36. 2: Stone JE, Petes TD. Analysis of the proteins involved in the in vivo repair of base-base mismatches and four-base loops formed during meiotic recombination in the yeast <i>Saccharomyces cerevisiae</i>. <i>Genetics</i> (2006) 173: 1223-39. 3: Welz-Voegele C, Stone JE, Tran PT, Kearney HM, Liskay RM, Petes TD, Jinks-Robertson S. Alleles of the yeast Pms1 mismatch-repair gene that differentially affect recombination- and replication-related processes. <i>Genetics</i> (2002) 162: 1131-45.
Jordan, Jennifer (2000-2008)	Michael Resnick	1: Jordan JJ, Inga A, Conway K, Edmiston S, Carey LA, Wu L, Resnick MA. Altered-function p53 missense mutations identified in breast cancers can have subtle effects on transactivation. <i>Mol Cancer Res</i> (2010) 8: 701-16. 2: Jordan JJ, Menendez D, Inga A, Nouredine M, Bell DA, Resnick MA. Noncanonical DNA motifs as transactivation targets by wild type and mutant p53. <i>PLoS Genet</i> (2008) 4: e1000104. 3: Menendez D, Inga A, Jordan JJ, Resnick MA. Changing the p53 master regulatory network: ELEMENTary, my dear Mr Watson. <i>Oncogene</i> (2007) 26: 2191-201. 4: Lewis LK, Lobachev K, Westmoreland JW, Karthikeyan G, Williamson KM, Jordan JJ, Resnick MA. Use of a restriction endonuclease cytotoxicity assay to identify inducible GAL1 promoter variants with reduced basal activity. <i>Gene</i> (2005) 363: 183-92.
Kashatus, David F (2000-2006)	Albert Baldwin	1: Cogswell PC, Kashatus DF, Keifer JA, Guttridge DC, Reuther JY, Bristow C, Roy S, Nicholson DW, Baldwin AS Jr. NF-kappa B and I kappa B alpha are found in the mitochondria. Evidence for regulation of mitochondrial gene expression by NF-kappa B. <i>J Biol Chem</i> (2003) 278: 2963-8.
Loomis, Rebecca J (2000-2006)	Lishan Su	1: Loomis RJ, Holmes DA, Elms A, Solski PA, Der CJ, Su L. Citron kinase, a RhoA effector, enhances HIV-1 virion production by modulating exocytosis. <i>Traffic</i> (2006) 7: 1643-53.
Williams, Tiffany L (2000-2006)	Ryszard Kole	1: Williams T, Kole R. Analysis of prostate-specific membrane antigen splice variants in LNCap cells. <i>Oligonucleotides</i> (2006) 16: 186-95. 2: Kole R, Williams T, Cohen L. RNA modulation, repair and remodeling by splice switching oligonucleotides. <i>Acta Biochim Pol.</i> (2004) 51: 373-8. 3: Kole R, Vacek M, Williams T. Modification of alternative splicing by antisense therapeutics. <i>Oligonucleotides</i> (2004) 14: 65-74.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Zacharek, Sima J (2000-2006)	Yue Xiong	1: Lee HO, Zacharek SJ, Xiong Y, Duronio RJ. Cell type-dependent requirement for PIP box-regulated Cdt1 destruction during S phase. <i>Mol Biol Cell</i> (2010) 21: 3639-53. 2: Zacharek SJ, Xiong Y, Shumway SD. Negative regulation of TSC1-TSC2 by mammalian D-type cyclins. <i>Cancer Res</i> (2005) 65: 11354-60.
Barbera, Maria (2001-2007)	Tom Petes	1: Barbera MA, Petes TD. Selection and analysis of spontaneous reciprocal mitotic cross-overs in <i>Saccharomyces cerevisiae</i>. <i>Proc Natl Acad Sci USA</i> (2006) 103: 12819-24.
Berzat, Anastacia C (2001-2006)	Adrienne Cox	1: Alan JK, Berzat AC, Dewar BJ, Graves LM, Cox AD. Regulation of the Rho family small GTPase Wrch-1/RhoU by C-terminal tyrosine phosphorylation requires Src. <i>Mol Cell Biol</i> (2010) 30: 4324-38. 2: Berzat AC, Brady DC, Fiordalisi JJ, Cox AD. Using inhibitors of prenylation to block localization and transforming activity. <i>Methods Enzymol</i> (2006);407: 575-97. 3: Shutes A, Berzat AC, Chenette EJ, Cox AD, Der CJ. Biochemical analyses of the Wrch atypical Rho family GTPases. <i>Methods Enzymol</i> (2006);406: 11-26. 4: Keller PJ, Fiordalisi JJ, Berzat AC, Cox AD. Visual monitoring of post-translational lipid modifications using EGFP-GTPase probes in live cells. <i>Methods</i> (2005) 37: 131-37. 5: Berzat AC, Buss JE, Chenette EJ, Weinbaum CA, Shutes A, Der CJ, Minden A, Cox AD. Transforming activity of the Rho family GTPase, Wrch-1, a Wnt-regulated Cdc42 homolog, is dependent on a novel carboxyl-terminal palmitoylation motif. <i>J Biol Chem</i> (2005) 280: 33055-65. 6: Shutes A, Berzat AC, Cox AD, Der CJ. Atypical mechanism of regulation of the Wrch-1 Rho family small GTPase. <i>Curr Biol</i> (2004) 14: 2052-6.
Dackor, Jennifer C (2001-2008)	David Threadgill	1: Dackor J, Strunk KE, Wehmeyer MM, Threadgill DW. Altered trophoblast proliferation is insufficient to account for placental dysfunction in Egfr null embryos. <i>Placenta</i> (2007) 28: 1211-8. 2: Dackor J, Li M, Threadgill DW. Placental overgrowth and fertility defects in mice with a hypermorphic allele of epidermal growth factor receptor. <i>Mamm Genome</i> (2009) 20: 339-49. 3: Dackor J, Caron KM, Threadgill DW. Placental and embryonic growth restriction in mice with reduced function epidermal growth factor receptor alleles. <i>Genetics</i>.(2009) 183: 207-18.
DeNofrio, Jan (2001-2008)	Leslie Parise	1: Denofrio JC, Yuan W, Temple BR, Gentry HR, Parise LV. Characterization of calcium- and integrin-binding protein 1 (CIB1) knockout platelets: potential compensation by CIB family members. <i>Thromb Haemost</i> (2008) 100: 847-56.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
DeNofrio, Jan (2001-2008) (CONTINUED)	Leslie Parise	2: Liu J, DeNofrio J, Yuan W, Wang Z, McFadden AW, Parise LV. Genetic manipulation of megakaryocytes to study platelet function. <i>Curr Top Dev Biol</i> (2008) 80: 311-35. 3: Leisner TM, Yuan W, DeNofrio JC, Liu J, Parise LV. Tickling the tails: cytoplasmic domain proteins that regulate integrin αIIbβ3 activation. <i>Curr Opin Hematol</i> (2007) 14: 255-61. 4: Akong K, Grevenkoed EE, Price MH, McCartney BM, Hayden MA, DeNofrio JC, Peifer M. Drosophila APC2 and APC1 play overlapping roles in wingless signaling in the embryo and imaginal discs. <i>Dev Biol</i> (2002) 250: 91-100.
Hayden, Melissa (2001-2007)	Mark Peifer	1: Hayden MA, Akong K, Peifer M. Novel roles for APC family members and Wingless/Wnt signaling during Drosophila brain development. <i>Dev Biol</i> (2007) 305: 358-76. 2: McCartney BM, Price MH, Webb RL, Hayden MA, Holot LM, Zhou M, Bejsovec A, Peifer M. Testing hypotheses for the functions of APC family proteins using null and truncation alleles in Drosophila. <i>Development</i> (2006) 133: 2407-18. 3: Akong K, Grevenkoed EE, Price MH, McCartney BM, Hayden MA, DeNofrio JC, Peifer M. Drosophila APC2 and APC1 play overlapping roles in wingless signaling in the embryo and imaginal discs. <i>Dev Biol</i> (2002) 250: 91-100.
Herschkowitz, Jason (2001-2008)	Charles Perou	1: Herschkowitz JI, Zhao W, Zhang M, Usary J, Murrow G, Edwards D, Knezevic J, Greene SB, Darr D, Troester MA, Hilsenbeck SG, Medina D, Perou CM, Rosen JM. Comparative oncogenomics identifies breast tumors enriched in functional tumor-initiating cells. <i>Proc Natl Acad Sci USA</i> (2012) 109: 2778-83. 2: Jiang Z, Jones R, Liu JC, Deng T, Robinson T, Chung PE, Wang S, Herschkowitz JI, Egan SE, Perou CM, Zacksenhaus E. RB1 and p53 at the crossroad of EMT and triple-negative breast cancer. <i>Cell Cycle</i> (2011) 10: 1563-70. 3: Giulianelli S, Herschkowitz JI, Patel V, Lamb CA, Gutkind JS, Molinolo A, Perou CM, Lanari C. MPA-induced gene expression and stromal and parenchymal gene expression profiles in luminal murine mammary carcinomas with different hormonal requirements. <i>Breast Cancer Res Treat</i> (2011) 129: 49-67. 4: Prat A, Parker JS, Karginova O, Fan C, Livasy C, Herschkowitz JI, He X, Perou CM. Phenotypic and molecular characterization of the claudin-low intrinsic subtype of breast cancer. <i>Breast Cancer Res</i> (2010) 12: R68. 5: Jiang Z, Deng T, Jones R, Li H, Herschkowitz JI, Liu JC, Weigman VJ, Tsao MS, Lane TF, Perou CM, Zacksenhaus E. Rb deletion in mouse mammary progenitors induces luminal-B or basal-like/EMT tumor subtypes depending on p53 status. <i>J Clin Invest</i> (2010) 120: 3296-309.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Herschkowitz, Jason (2001-2008) (CONTINUED)	Charles Perou	6: Pond AC, Herschkowitz JI, Schwertfeger KL, Welm B, Zhang Y, York B, Cardiff RD, Hilsenbeck S, Perou CM, Creighton CJ, Lloyd RE, Rosen JM. Fibroblast growth factor receptor signaling dramatically accelerates tumorigenesis and enhances oncoprotein translation in the mouse mammary tumor virus-Wnt-1 mouse model of breast cancer. <i>Cancer Res</i> (2010) 70: 4868-79. 7: Creighton CJ, Li X, Landis M, Dixon JM, Neumeister VM, Sjolund A, Rimm DL, Wong H, Rodriguez A, Herschkowitz JI, Fan C, Zhang X, He X, Pavlick A, Gutierrez MC, Renshaw L, Larionov AA, Faratian D, Hilsenbeck SG, Perou CM, Lewis MT, Rosen JM, Chang JC. Residual breast cancers after conventional therapy display mesenchymal as well as tumor-initiating features. <i>Proc Natl Acad Sci USA</i> (2009) 106: 13820-5. 8: Herschkowitz JI, He X, Fan C, Perou CM. The functional loss of the retinoblastoma tumour suppressor is a common event in basal-like and luminal B breast carcinomas. <i>Breast Cancer Res</i> (2008);10: R75. 9: Wright MH, Robles AI, Herschkowitz JI, Hollingshead MG, Anver MR, Perou CM, Varticovski L. Molecular analysis reveals heterogeneity of mouse mammary tumors conditionally mutant for Brca1. <i>Mol Cancer</i> (2008) 7: 29. 10: Li Z, Tognon CE, Godinho FJ, Yasaitis L, Hock H, Herschkowitz JI, Lannon CL, Cho E, Kim SJ, Bronson RT, Perou CM, Sorensen PH, Orkin SH. ETV6-NTRK3 fusion oncogene initiates breast cancer from committed mammary progenitors via activation of AP1 complex. <i>Cancer Cell</i> (2007) 12: 542-58. 11: Bultman SJ, Herschkowitz JI, Godfrey V, Gebuhr TC, Yaniv M, Perou CM, Magnuson T. Characterization of mammary tumors from Brg1 heterozygous mice. <i>Oncogene</i> (2008) 27: 460-8. 12: Burkart MF, Wren JD, Herschkowitz JI, Perou CM, Garner HR. Clustering microarray-derived gene lists through implicit literature relationships. <i>Bioinformatics</i> (2007) 23: 1995-2003. 13: Herschkowitz JI, Simin K, Weigman VJ, Mikaelian I, Usary J, Hu Z, Rasmussen KE, Jones LP, Assefnia S, Chandrasekharan S, Backlund MG, Yin Y, Khramtsov AI, Bastein R, Quackenbush J, Glazer RI, Brown PH, Green JE, Kopelovich L, Furth PA, Palazzo JP, Olopade OI, Bernard PS, Churchill GA, Van Dyke T, Perou CM. Identification of conserved gene expression features between murine mammary carcinoma models and human breast tumors. <i>Genome Biol</i> (2007);8: R76. 14: Troester MA, Herschkowitz JI, Oh DS, He X, Hoadley KA, Barbier CS, Perou CM. Gene expression patterns associated with p53 status in breast cancer. <i>BMC Cancer</i> (2006) 6: 276.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Hoadley, Katherine A (2001-2006)	Charles Perou	1: Carey LA, Rugo HS, Marcom PK, Mayer EL, Esteva FJ, Ma CX, Liu MC, Storniolo AM, Rimawi MF, Forero-Torres A, Wolff AC, Hobday TJ, Ivanova A, Chiu WK, Ferraro M, Burrows E, Bernard PS, Hoadley KA, Perou CM, Winer EP. TBCRC 001: Randomized Phase II Study of Cetuximab in Combination With Carboplatin in Stage IV Triple-Negative Breast Cancer. <i>J Clin Oncol</i> (2012) 30: 2615-23. 2: Duncan JS, Whittle MC, Nakamura K, Abell AN, Midland AA, Zawistowski JS, Johnson NL, Granger DA, Jordan NV, Darr DB, Usary J, Kuan PF, Smalley DM, Major B, He X, Hoadley KA, Zhou B, Sharpless NE, Perou CM, Kim WY, Gomez SM, Chen X, Jin J, Frye SV, Earp HS, Graves LM, Johnson GL. Dynamic reprogramming of the kinome in response to targeted MEK inhibition in triple-negative breast cancer. <i>Cell</i> (2012) 149: 307-21. 3: Thorner AR, Parker JS, Hoadley KA, Perou CM. Potential tumor suppressor role for the c-Myb oncogene in luminal breast cancer. <i>PLoS One</i> (2010) 5: e13073. 4: Wilkerson MD, Yin X, Hoadley KA, Liu Y, Hayward MC, Cabanski CR, Muldrew K, Miller CR, Randell SH, Socinski MA, Parsons AM, Funkhouser WK, Lee CB, Roberts PJ, Thorne L, Bernard PS, Perou CM, Hayes DN. Lung squamous cell carcinoma mRNA expression subtypes are reproducible, clinically important, and correspond to normal cell types. <i>Clin Cancer Res</i> (2010) 16: 4864-75. 5: Noushmehr H, Weisenberger DJ, Diefes K, Phillips HS, Pujara K, Berman BP, Pan F, Peltoski CE, Sulman EP, Bhat KP, Verhaak RG, Hoadley KA, Hayes DN, Perou CM, Schmidt HK, Ding L, Wilson RK, Van Den Berg D, Bengtsson H, Neuvial P, Cope LM, Buckley J, Herman JG, Baylin SB, Laird PW, Aldape K; Cancer Genome Atlas Research Network. Identification of a CpG island methylator phenotype that defines a distinct subgroup of glioma. <i>Cancer Cell</i> (2010) 17: 510-22. 6: Verhaak RG, Hoadley KA, Purdom E, Wang V, Qi Y, Wilkerson MD, Miller CR, Ding L, Golub T, Mesirov JP, Alexe G, Lawrence M, O'Kelly M, Tamayo P, Weir BA, Gabriel S, Winckler W, Gupta S, Jakkula L, Feiler HS, Hodgson JG, James CD, Sarkaria JN, Brennan C, Kahn A, Spellman PT, Wilson RK, Speed TP, Gray JW, Meyerson M, Getz G, Perou CM, Hayes DN; Cancer Genome Atlas Research Network. Integrated genomic analysis identifies clinically relevant subtypes of glioblastoma characterized by abnormalities in PDGFRA, IDH1, EGFR, and NF1. <i>Cancer Cell</i> (2010) Jan 19;17: 98-110. 7: Bild AH, Parker JS, Gustafson AM, Acharya CR, Hoadley KA, Anders C, Marcom PK, Carey LA, Potti A, Nevins JR, Perou CM. An integration of complementary strategies for gene-expression analysis to reveal novel therapeutic opportunities for breast cancer. <i>Breast Cancer Res</i> (2009) 11: R55. 8: Thorner AR, Hoadley KA, Parker JS, Winkel S, Millikan RC, Perou CM. In vitro and in vivo analysis of B-Myb in basal-like breast cancer. <i>Oncogene</i> (2009) 28: 742-51.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Hoadley, Katherine A (2001-2006) (CONTINUED)	Charles Perou	9: Jiang J, Parker CE, Hoadley KA, Perou CM, Boysen G, Borchers CH. <i>Development</i> of an immuno tandem mass spectrometry (iMALDI) assay for EGFR diagnosis. <i>Proteomics Clin Appl</i> (2007) 1: 1651-9. 10: Hoadley KA, Weigman VJ, Fan C, Sawyer LR, He X, Troester MA, Sartor CI, Rieger-House T, Bernard PS, Carey LA, Perou CM. EGFR associated expression profiles vary with breast tumor subtype. <i>BMC Genomics</i> (2007) 8: 258. 11: Penland SK, Keku TO, Torrice C, He X, Krishnamurthy J, Hoadley KA, Woosley JT, Thomas NE, Perou CM, Sandler RS, Sharpless NE. RNA expression analysis of formalin-fixed paraffin-embedded tumors. <i>Lab Invest</i> (2007) 87: 383-91. 12: Troester MA, Herschkowitz JI, Oh DS, He X, Hoadley KA, Barbier CS, Perou CM. Gene expression patterns associated with p53 status in breast cancer. <i>BMC Cancer</i> (2006) 6: 276. 13: Troester MA, Hoadley KA, Parker JS, Perou CM. Prediction of toxicant-specific gene expression signatures after chemotherapeutic treatment of breast cell lines. <i>Environ Health Perspect</i> (2004) 112: 1607. 14: Troester MA, Hoadley KA, Sørlie T, Herbert BS, Børresen-Dale AL, Lønning PE, Shay JW, Kaufmann WK, Perou CM. Cell-type-specific responses to chemotherapeutics in breast cancer. <i>Cancer Res</i> (2004) 64: 4218-26.
Ledford, Julie G (2001-2006)	Beverly Koller	1: Ledford JG, Kovarova M, Jania LA, Nguyen M, Koller BH. ONZIN deficiency attenuates contact hypersensitivity responses in mice. <i>Immunol Cell Biol</i> (2012) 90: 733-42. 2: Ledford JG, Kovarova M, Koller BH. Impaired host defense in mice lacking ONZIN. <i>J Immunol</i> (2007) Apr 15;178: 5132-43. 3: Allen IC, Pace AJ, Jania LA, Ledford JG, Latour AM, Snouwaert JN, Bernier V, Stocco R, Therien AG, Koller BH. Expression and function of NPSR1/GPRA in the lung before and after induction of asthma-like disease. <i>Am J Physiol Lung Cell Mol Physiol</i> (2006) 291: L1005-17.
Lee, Tang-Cheng (2001-2008)	David Threadgill	1: Chen J, Chen JK, Nagai K, Plieth D, Tan M, Lee TC, Threadgill DW, Neilson EG, Harris RC. EGFR signaling promotes TGFβ-dependent renal fibrosis. <i>J Am Soc Nephrol</i> (2012) 23: 215-24. 2: Zhang X, Tamasi J, Lu X, Zhu J, Chen H, Tian X, Lee TC, Threadgill DW, Kream BE, Kang Y, Partridge NC, Qin L. Epidermal growth factor receptor plays an anabolic role in bone metabolism in vivo. <i>J Bone Miner Res</i> (2011) 26: 1022-34. 3: Zhang Z, Pascuet E, Hueber PA, Chu L, Bichet DG, Lee TC, Threadgill DW, Goodyer P. Targeted inactivation of EGF receptor inhibits renal collecting duct development and function. <i>J Am Soc Nephrol</i> (2010) 21: 573-8.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Lee, Tang-Cheng (2001-2008)		4: Lee TC, Threadgill DW. Generation and validation of mice carrying a conditional allele of the epidermal growth factor receptor. <i>Genesis</i> (2009) 47: 85-92. 5: Maklad A, Nicolai JR, Bichsel KJ, Evenson JE, Lee TC, Threadgill DW, Hansen LA. The EGFR is required for proper innervation to the skin. <i>J Invest Dermatol</i> (2009) 129: 690-8.
Montgomery, Nathan (2001-2007)	Terry Magnuson	1: Montgomery ND, Yee D, Montgomery SA, Magnuson T. Molecular and functional mapping of EED motifs required for PRC2-dependent histone methylation. <i>J Mol Biol</i> (2007) 374: 1145-57. 2: Montgomery ND, Yee D, Chen A, Kalantry S, Chamberlain SJ, Otte AP, Magnuson T. The murine polycomb group protein Eed is required for global histone H3 lysine-27 methylation. <i>Curr Biol</i> (2005) 15: 942-7. 3: Mager J, Montgomery ND, de Villena FP, Magnuson T. Genome imprinting regulated by the mouse Polycomb group protein Eed. <i>Nat Genet</i>. 2003 33: 502-7.
Radford, Sarah J (2001-2006)	Jeff Sekelsky	1: Radford SJ, Sabourin MM, McMahan S, Sekelsky J. Meiotic recombination in Drosophila Msh6 mutants yields discontinuous gene conversion tracts. <i>Genetics</i> (2007) 176: 53-62. 2: Radford SJ, McMahan S, Blanton HL, Sekelsky J. Heteroduplex DNA in meiotic recombination in Drosophila mei-9 mutants. <i>Genetics</i> (2007) 176: 63-72. 3: Blanton HL, Radford SJ, McMahan S, Kearney HM, Ibrahim JG, Sekelsky J. REC, Drosophila MCM8, drives formation of meiotic crossovers. <i>PLoS Genet</i> (2005) 1: e40. 4: Radford SJ, Goley E, Baxter K, McMahan S, Sekelsky J. Drosophila ERCC1 is required for a subset of MEI-9-dependent meiotic crossovers. <i>Genetics</i> (2005) 170: 1737-45. 5: Radford SJ, Sekelsky JJ. Taking Drosophila Rad51 for a SPiN. <i>Nat Struct Mol Biol</i> (2004) 11: 9-10.
Rao, Bhargavi (2001-2007)	Jason Lieb Brian Strahl	1: Lickwar CR, Rao B, Shabalin AA, Nobel AB, Strahl BD, Lieb JD. The Set2/Rpd3S pathway suppresses cryptic transcription without regard to gene length or transcription frequency. <i>PLoS One</i> (2009) 4: e4886. 2: Morris SA, Rao B, Garcia BA, Hake SB, Diaz RL, Shabanowitz J, Hunt DF, Allis CD, Lieb JD, Strahl BD. Identification of histone H3 lysine 36 acetylation as a highly conserved histone modification. <i>J Biol Chem</i> (2007) 282: 7632-40. 3: Xiao T, Shibata Y, Rao B, Laribee RN, O'Rourke R, Buck MJ, Greenblatt JF, Krogan NJ, Lieb JD, Strahl BD. The RNA polymerase II kinase Ctk1 regulates positioning of a 5' histone methylation boundary along genes. <i>Mol Cell Biol</i> (2007) 27: 721-31.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Rao, Bhargavi (2001-2007) (CONTINUED)	Jason Lieb Brian Strahl	4: Rao B , Shibata Y, Strahl BD, Lieb JD. Dimethylation of histone H3 at lysine 36 demarcates regulatory and nonregulatory chromatin genome-wide. <i>Mol Cell Biol</i> (2005) 25: 9447-59. 5: Lee CK, Shibata Y, Rao B , Strahl BD, Lieb JD. Evidence for nucleosome depletion at active regulatory regions genome-wide. <i>Nat Genet</i> (2004) 36: 900-5.
Allen, Irving Coy (2002-2006)	Beverly Koller	1: Schneider M, Zimmermann AG, Roberts RA, Zhang L, Swanson KV, Wen H, Davis BK, Allen IC , Holl EK, Ye Z, Rahman AH, Conti BJ, Eitas TK, Koller BH, Ting JP. The innate immune sensor NLR3 attenuates Toll-like receptor signaling via modification of the signaling adaptor TRAF6 and transcription factor NF- κ B. <i>Nat Immunol</i> (2012) Aug 5. 2: Allen IC , Jania CM, Wilson JE, Tekeppe EM, Hua X, Brickey WJ, Kwan M, Koller BH, Tilley SL, Ting JP. Analysis of NLRP3 in the <i>Development</i> of allergic airway disease in mice. <i>J Immunol</i> (2012) 188: 2884-93. 3: Cyphert JM, Allen IC , Church RJ, Latour AM, Snouwaert JN, Coffman TM, Koller BH. Allergic inflammation induces a persistent mechanistic switch in thromboxane-mediated airway constriction in the mouse. <i>Am J Physiol Lung Cell Mol Physiol</i> (2012) 302: L140-51. 4: Arthur JC, Lich JD, Ye Z, Allen IC , Gris D, Wilson JE, Schneider M, Roney KE, O'Connor BP, Moore CB, Morrison A, Sutterwala FS, Bertin J, Koller BH, Liu Z, Ting JP. Cutting edge: NLRP12 controls dendritic and myeloid cell migration to affect contact hypersensitivity. <i>J Immunol</i> (2010) 185: 4515-9. 5: Cyphert JM, Kovarova M, Allen IC , Hartney JM, Murphy DL, Wess J, Koller BH. Cooperation between mast cells and neurons is essential for antigen-mediated bronchoconstriction. <i>J Immunol</i> (2009) 182: 7430-9. 6: Allen IC , Pace AJ, Jania LA, Ledford JG, Latour AM, Snouwaert JN, Bernier V, Stocco R, Therien AG, Koller BH. Expression and function of NPSR1/GPRA in the lung before and after induction of asthma-like disease. <i>Am J Physiol Lung Cell Mol Physiol</i> (2006) 291: L1005-17. 7: Allen IC , Hartney JM, Coffman TM, Penn RB, Wess J, Koller BH. Thromboxane A2 induces airway constriction through an M3 muscarinic acetylcholine receptor-dependent mechanism. <i>Am J Physiol Lung Cell Mol Physiol</i> (2006) 290: L526-33.
Bash, Ryan (2002-2010) Student left with MS	Terry Van Dyke	1: Simin K, Hill R, Song Y, Zhang Q, Bash R , Cardiff RD, Yin C, Xiao A, McCarthy K, van Dyke T. Deciphering cancer complexities in genetically engineered mice. <i>Cold Spring Harb Symp Quant Biol</i> (2005) 70: 283-90.
Doherty, Heather (2002-2010)	Nobuyo Maeda	1: Doherty HE , Kim HS, Hiller S, Sulik KK, Maeda N. A mouse strain where basal connective tissue growth factor gene expression can be switched from low to high. <i>PLoS One</i> (2010) 5: e12909. 2: Altenburg M, Homeister J, Doherty H , Maeda N. <i>Genetics</i> of atherosclerosis in murine models. <i>Curr Drug Targets</i> (2007) 8: 1161-71.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Gregory, Devon (2002-2007)	Steve Bachenheimer	1: Gregory DA, Bachenheimer SL. Characterization of mre11 loss following HSV-1 infection. <i>Virology</i> (2008) 373: 124-36. 2: Gregory D, Hargett D, Holmes D, Money E, Bachenheimer SL. Efficient replication by herpes simplex virus type 1 involves activation of the IkappaB kinase-IkappaB-p65 pathway. <i>J Virol</i> (2004) 78: 13582-90.
Ideraabdullah, Folami (2002-2007)	Fernando Pardo-Manuel de Villena	1: Ideraabdullah FY, Kim K, Pomp D, Moran JL, Beier D, de Villena FP. Rescue of the mouse DDK syndrome by parent-of-origin-dependent modifiers. <i>Biol Reprod</i> (2007) 76: 286-93. 2: Bell TA, de la Casa-Esperón E, Doherty HE, Ideraabdullah F, Kim K, Wang Y, Lange LA, Wilhemsen K, Lange EM, Sapienza C, de Villena FP. The paternal gene of the DDK syndrome maps to the Schlafen gene cluster on mouse chromosome 11. <i>Genetics</i> (2006) 172: 411-23. 3: Ideraabdullah FY, de la Casa-Esperón E, Bell TA, Detwiler DA, Magnuson T, Sapienza C, de Villena FP. Genetic and haplotype diversity among wild-derived mouse inbred strains. <i>Genome Res.</i> (2004) 14: 1880-7.
Kallin, Eric (2002-2009)	Yi Zhang	1: Nguyen AT, Xiao B, Nepl RL, Kallin EM, Li J, Chen T, Wang DZ, Xiao X, Zhang Y. DOT1L regulates dystrophin expression and is critical for cardiac function. <i>Genes Dev</i> (2011) 25: 263-74. 2: Wu SC, Kallin EM, Zhang Y. Role of H3K27 methylation in the regulation of lncRNA expression. <i>Cell Res</i> (2010) 20: 1109-16. 3: Kallin EM, Cao R, Jothi R, Xia K, Cui K, Zhao K, Zhang Y. Genome-wide uH2A localization analysis highlights Bmi1-dependent deposition of the mark at repressed genes. <i>PLoS Genet</i> (2009) 5: e1000506. 4: Tateishi K, Okada Y, Kallin EM, Zhang Y. Role of Jhdm2a in regulating metabolic gene expression and obesity resistance. <i>Nature</i> (2009) 458: 757-61. 5: He J, Kallin EM, Tsukada Y, Zhang Y. The H3K36 demethylase Jhdm1b/Kdm2b regulates cell proliferation and senescence through p15(Ink4b). <i>Nat Struct Mol Biol</i> (2008) 15: 1169-75. 6: Lu X, Kovalev GI, Chang H, Kallin E, Knudsen G, Xia L, Mishra N, Ruiz P, Li E, Su L, Zhang Y. Inactivation of NuRD component Mta2 causes abnormal T cell activation and lupus-like autoimmune disease in mice. <i>J Biol Chem</i> (2008) 283: 13825-33. 7: Klose RJ, Kallin EM, Zhang Y. JmjC-domain-containing proteins and histone demethylation. <i>Nat Rev Genet</i> (2006) 7: 715-27.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Kazgan, Nevzat (2002-2010)	Jay Brenman	1: Johnson EC, Kazgan N, Bretz CA, Forsberg LJ, Hector CE, Worthen RJ, Onyenwoke R, Brenman JE. Altered metabolism and persistent starvation behaviors caused by reduced AMPK function in <i>Drosophila</i>. <i>PLoS One</i> (2010) 5. pii: e12799. 2: Kazgan N, Williams T, Forsberg LJ, Brenman JE. Identification of a nuclear export signal in the catalytic subunit of AMP-activated protein kinase. <i>Mol Biol Cell</i> (2010) 21: 3433-42. 3: Mirouse V, Swick LL, Kazgan N, St Johnston D, Brenman JE. LKB1 and AMPK maintain epithelial cell polarity under energetic stress. <i>J Cell Biol</i> (2007) 177: 387-92.
Knies, Jennifer (2002-2007)	Christina Burch	1: Knies JL, Kingsolver JG, Burch CL. Hotter is better and broader: thermal sensitivity of fitness in a population of bacteriophages. <i>Am Nat</i> (2009) 173: 419-30. 2: Knies JL, Dang KK, Vision TJ, Hoffman NG, Swanstrom R, Burch CL. Compensatory evolution in RNA secondary structures increases substitution rate variation among sites. <i>Mol Biol Evol</i> (2008) 25: 1778-87. 3: Knies JL, Izem R, Supler KL, Kingsolver JG, Burch CL. The genetic basis of thermal reaction norm evolution in lab and natural phage populations. <i>PLoS Biol.</i> (2006) 4: e201.
Lovgren Kern, Alysia (2002-2007)	Beverly Koller	1: Lovgren AK, Kovarova M, Koller BH. cPGES/p23 is required for glucocorticoid receptor function and embryonic growth but not prostaglandin E2 synthesis. <i>Mol Cell Biol</i> (2007) 27: 4416-30. 2: Lovgren AK, Jania LA, Hartney JM, Parsons KK, Audoly LP, Fitzgerald GA, Tilley SL, Koller BH. COX-2-derived prostacyclin protects against bleomycin-induced pulmonary fibrosis. <i>Am J Physiol Lung Cell Mol Physiol</i> (2006) 291: L144-56. 3: Hartney JM, Coggins KG, Tilley SL, Jania LA, Lovgren AK, Audoly LP, Koller BH. Prostaglandin E2 protects lower airways against bronchoconstriction. <i>Am J Physiol Lung Cell Mol Physiol</i> (2006) 290: L105-13.
Newman Hansen, Maureen (2002-2008)	Joe Kieber	1: Thomann A, Lechner E, Hansen M, Dumbliuskas E, Parmentier Y, Kieber J, Scheres B, Genschik P. Arabidopsis CULLIN3 genes regulate primary root growth and patterning by ethylene-dependent and -independent mechanisms. <i>PLoS Genet</i> (2009) 5: e1000328. 2: Hansen M, Chae HS, Kieber JJ. Regulation of ACS protein stability by cytokinin and brassinosteroid. <i>Plant J</i> (2009) 57: 606-14. 3: Christians MJ, Gingerich DJ, Hansen M, Binder BM, Kieber JJ, Vierstra RD. The BTB ubiquitin ligases ETO1, EOL1 and EOL2 act collectively to regulate ethylene biosynthesis in Arabidopsis by controlling type-2 ACC synthase levels. <i>Plant J</i> (2009) 57: 332-45.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Ramsey, Matthew (2002-2007)	Ned Sharpless	1: Johnson SM, Torrice CD, Bell JF, Monahan KB, Jiang Q, Wang Y, Ramsey MR, Jin J, Wong KK, Su L, Zhou D, Sharpless NE. Mitigation of hematologic radiation toxicity in mice through pharmacological quiescence induced by CDK4/6 inhibition. <i>J Clin Invest</i> (2010) 120: 2528-36. 2: Ji H, Ramsey MR, Hayes DN, Fan C, McNamara K, Kozlowski P, Torrice C, Wu MC, Shimamura T, Perera SA, Liang MC, Cai D, Naumov GN, Bao L, Contreras CM, Li D, Chen L, Krishnamurthy J, Koivunen J, Chirieac LR, Padera RF, Bronson RT, Lindeman NI, Christiani DC, Lin X, Shapiro GI, Jänne PA, Johnson BE, Meyerson M, Kwiatkowski DJ, Castrillon DH, Bardeesy N, Sharpless NE, Wong KK. LKB1 modulates lung cancer differentiation and metastasis. <i>Nature</i> (2007) 448: 807-10. 3: Ramsey MR, Krishnamurthy J, Pei XH, Torrice C, Lin W, Carrasco DR, Ligon KL, Xiong Y, Sharpless NE. Expression of p16Ink4a compensates for p18Ink4c loss in cyclin-dependent kinase 4/6-dependent tumors and tissues. <i>Cancer Res</i> (2007) 67: 4732-41. 4: Ramsey MR, Sharpless NE. ROS as a tumour suppressor? <i>Nat Cell Biol</i> (2006) 8: 1213-5. 5: Krishnamurthy J, Ramsey MR, Ligon KL, Torrice C, Koh A, Bonner-Weir S, Sharpless NE. p16INK4a induces an age-dependent decline in islet regenerative potential. <i>Nature</i> (2006) 443: 453-7. 6: Krishnamurthy J, Torrice C, Ramsey MR, Kovalev GI, Al-Regaiey K, Su L, Sharpless NE. Ink4a/Arf expression is a biomarker of aging. <i>J Clin Invest</i>. (2004) 114: 1299-307. 7: Sharpless NE, Ramsey MR, Balasubramanian P, Castrillon DH, DePinho RA. The differential impact of p16(INK4a) or p19(ARF) deficiency on cell growth and tumorigenesis. <i>Oncogene</i> (2004) 23: 379.
Rinella, Erica (2002-2008)	David Threadgill	1: Rinella ES, Threadgill DW. Efficacy of EGFR Inhibition Is Modulated by Model, Sex, Genetic Background and Diet: Implications for Preclinical Cancer Prevention and Therapy Trials. <i>PLoS One</i> (2012) 7: e39552. 2: Rinella ES, Bankaitis ED, Threadgill DW. Dietary calcium supplementation enhances efficacy but also toxicity of EGFR inhibitor therapy for colon cancer. <i>Cancer Biol Ther</i> (2012) 13: 130-7. 3: Radloff DR, Rinella ES, Threadgill DW. Modeling cancer patient populations in mice: complex genetic and environmental factors. <i>Drug Discov Today Dis Models</i> (2008) 4: 83-88. 4: Rinella ES, Eversley CD, Carroll IM, Andrus JM, Threadgill DW, Threadgill DS. Human epithelial-specific response to pathogenic <i>Campylobacter jejuni</i>. <i>FEMS Microbiol Lett</i> (2006) 262: 236-43.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Schliekelman, Mark (2002-2008)	Terry Van Dyke	1: Schliekelman M , Cowley DO, O'Quinn R, Oliver TG, Lu L, Salmon ED, Van Dyke T. Impaired Bub1 function in vivo compromises tension-dependent checkpoint function leading to aneuploidy and tumorigenesis. <i>Cancer Res</i> (2009) 69: 45-54. 2: Cowley DO, Rivera-Pérez JA, Schliekelman M , He YJ, Oliver TG, Lu L, O'Quinn R, Salmon ED, Magnuson T, Van Dyke T. Aurora-A kinase is essential for bipolar spindle formation and early development. <i>Mol Cell Biol</i> (2009) 29: 1059-71.
Trowbridge, Kristen (2002-2007) Student left with MS	Jeff Sekelsky	1: Trowbridge K , McKim K, Brill SJ, Sekelsky J. Synthetic lethality of Drosophila in the absence of the MUS81 endonuclease and the DmBlm helicase is associated with elevated apoptosis. <i>Genetics</i> (2007) 176: 1993-2001.
Uronis, Joshua (2002-2008)	David Threadgill	1: Uronis JM , Threadgill DW. Murine models of colorectal cancer. <i>Mamm Genome</i> (2009) 20: 261-8. 2: Pysz MA, Leontieva OV, Bateman NW, Uronis JM , Curry KJ, Threadgill DW, Janssen KP, Robine S, Velcich A, Augenlicht LH, Black AR, Black JD. PKCalpha tumor suppression in the intestine is associated with transcriptional and translational inhibition of cyclin D1. <i>Exp Cell Res</i> (2009) 315: 1415-28. 3: Uronis JM , Herfarth HH, Rubinas TC, Bissahoyo AC, Hanlon K, Threadgill DW. Flat colorectal cancers are genetically determined and progress to invasion without going through a polypoid stage. <i>Cancer Res</i> (2007) 67: 11594-600.
Bayer, Matthew (2003-2010)	Tal Kafri	1: Kantor B, Bayer M , Ma H, Samulski J, Li C, McCown T, Kafri T. Notable reduction in illegitimate integration mediated by a PPT-deleted, nonintegrating lentiviral vector. <i>Mol Ther</i> (2011) 19: 547-56. 2: Bayer M , Kantor B, Cockrell A, Ma H, Zeithaml B, Li X, McCown T, Kafri T. A large U3 deletion causes increased in vivo expression from a nonintegrating lentiviral vector. <i>Mol Ther</i> (2008) 16: 1968-76.
Burch, Brandon (2003-2010)	William Marzluff	1: White AE, Burch BD , Yang XC, Gasdaska PY, Dominski Z, Marzluff WF, Duronio RJ. Drosophila histone locus bodies form by hierarchical recruitment of components. <i>J Cell Biol</i> (2011) 193: 677-94. 2: Burch BD , Godfrey AC, Gasdaska PY, Salzler HR, Duronio RJ, Marzluff WF, Dominski Z. Interaction between FLASH and Lsm11 is essential for histone pre-mRNA processing in vivo in Drosophila. <i>RNA</i> (2011) 17: 1132-47. 3: Yang XC, Xu B, Sabath I, Kunduru L, Burch BD , Marzluff WF, Dominski Z. FLASH is required for the endonucleolytic cleavage of histone pre-mRNAs but is dispensable for the 5' exonucleolytic degradation of the downstream cleavage product. <i>Mol Cell Biol</i> (2011) 31: 1492-502.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Burch, Brandon (2003-2010) (CONTINUED)	William Marzluff	4: Ezzeddine N, Chen J, Waltenspiel B, Burch B, Albrecht T, Zhuo M, Warren WD, Marzluff WF, Wagner EJ. A subset of Drosophila integrator proteins is essential for efficient U7 snRNA and spliceosomal snRNA 3'-end formation. <i>Mol Cell Biol</i> (2011) 31: 328-41. 5: Yang XC, Burch BD, Yan Y, Marzluff WF, Dominski Z. FLASH, a proapoptotic protein involved in activation of caspase-8, is essential for 3' end processing of histone pre-mRNAs. <i>Mol Cell</i> (2009) 36: 267-78. 6: Wagner EJ, Burch BD, Godfrey AC, Salzler HR, Duronio RJ, Marzluff WF. A genome-wide RNA interference screen reveals that variant histones are necessary for replication-dependent histone pre-mRNA processing. <i>Mol Cell</i> (2007) 28: 692-9. 7: Godfrey AC, Kupsco JM, Burch BD, Zimmerman RM, Dominski Z, Marzluff WF, Duronio RJ. U7 snRNA mutations in Drosophila block histone pre-mRNA processing and disrupt oogenesis. <i>RNA</i> (2006) 12: 396-409.
Dackor, Ryan (2003-2008)	Kathleen Caron	1: Barrick CJ, Lenhart PM, Dackor RT, Nagle E, Caron KM. Loss of receptor activity modifying protein 3 exacerbates cardiac hypertrophy and transition to heart failure in a sex-dependent manner. <i>J Mol Cell Cardiol</i> (2012) 52: 165-74. 2: Dackor R, Caron K. Mice heterozygous for adrenomedullin exhibit a more extreme inflammatory response to endotoxin-induced septic shock. <i>Peptides</i> (2007) 28: 2164-70. 3: Dackor R, Fritz-Six K, Smithies O, Caron K. Receptor activity-modifying proteins 2 and 3 have distinct physiological functions from embryogenesis to old age. <i>J Biol Chem</i> (2007) 282: 18094-9. 4: Gibbons C, Dackor R, Dunworth W, Fritz-Six K, Caron KM. Receptor activity-modifying proteins: RAMPing up adrenomedullin signaling. <i>Mol Endocrinol</i> (2007) 21: 783-96. 5: Dackor RT, Fritz-Six K, Dunworth WP, Gibbons CL, Smithies O, Caron KM. Hydrops fetalis, cardiovascular defects, and embryonic lethality in mice lacking the calcitonin receptor-like receptor gene. <i>Mol Cell Biol</i> (2006) 26: 2511-8.
Eversley, Chevonne (2003-2009)	David Threadgill	1: Eversley CD, Clark T, Xie Y, Steigerwalt J, Bell TA, de Villena FP, Threadgill DW. Genetic mapping and <i>Developmental</i> timing of transmission ratio distortion in a mouse interspecific backcross. <i>BMC Genet</i> (2010) 11: 98. 2: Huang H, Eversley CD, Threadgill DW, Zou F. Bayesian multiple quantitative trait loci mapping for complex traits using markers of the entire genome. <i>Genetics</i> (2007) 176: 2529-40. 3: Rinella ES, Eversley CD, Carroll IM, Andrus JM, Threadgill DW, Threadgill DS. Human epithelial-specific response to pathogenic <i>Campylobacter jejuni</i>. <i>FEMS Microbiol Lett</i> (2006) 262: 236-43.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Gruzdev, Artiom (2003-2009)	Beverly Koller	1: Gruzdev A , Nguyen M, Kovarova M, Koller BH. PGE2 through the EP4 receptor controls smooth muscle gene expression patterns in the ductus arteriosus critical for remodeling at birth. <i>Prostaglandins Other Lipid Mediat</i> (2012) 97: 109-19.
Leviel, Keren (2003-2006) Student left with MS	Patrick Sullivan	1: Pinheiro AP, Keefe RS, Skelly T, Olarte M, Leviel K , Lange LA, Lange EM, Stroup TS, Lieberman J, Sullivan PF. AKT1 and neurocognition in schizophrenia. <i>Aust N Z J Psychiatry</i> (2007) 41: 169. 2: Leviel K , Olarte M, Sullivan PF. Genotyping accuracy for whole-genome amplification of DNA from buccal epithelial cells. <i>Twin Res.</i> (2004) 7: 482-4.
Madigan, James (2003-2008)	Adrienne Cox	1: Madigan JP , Bodemann BO, Brady DC, Dewar BJ, Keller PJ, Leitges M, Philips MR, Ridley AJ, Der CJ, Cox AD. Regulation of Rnd3 localization and function by protein kinase C alpha-mediated phosphorylation. <i>Biochem J</i> (2009) 424: 153-61. 2: Brady DC, Alan JK, Madigan JP , Fanning AS, Cox AD. The transforming Rho family GTPase Wrch-1 disrupts epithelial cell tight junctions and epithelial morphogenesis. <i>Mol Cell Biol</i> (2009) 29: 1035. 3: Roberts PJ, Mitin N, Keller PJ, Chenette EJ, Madigan JP , Currin RO, Cox AD, Wilson O, Kirschmeier P, Der CJ. Rho Family GTPase modification and dependence on CAAX motif-signaled posttranslational modification. <i>J Biol Chem</i> (2008) 283: 25150-63. 4: Capell BC, Erdos MR, Madigan JP , Fiordalisi JJ, Varga R, Conneely KN, Gordon LB, Der CJ, Cox AD, Collins FS. Inhibiting farnesylation of progerin prevents the characteristic nuclear blebbing of Hutchinson-Gilford progeria syndrome. <i>Proc Natl Acad Sci USA</i> (2005) 102: 12879.
Oh, Daniel S (2003-2006)	Charles Perou	1: Hu Z, Fan C, Livasy C, He X, Oh DS , Ewend MG, Carey LA, Subramanian S, West R, Ikpatt F, Olopade OI, van de Rijn M, Perou CM. A compact VEGF signature associated with distant metastases and poor outcomes. <i>BMC Med</i> (2009) 7: 9. 2: Julka PK, Chacko RT, Nag S, Parshad R, Nair A, Oh DS , Hu Z, Koppiker CB, Nair S, Dawar R, Dhindsa N, Miller ID, Ma D, Lin B, Awasthy B, Perou CM. A phase II study of sequential neoadjuvant gemcitabine plus doxorubicin followed by gemcitabine plus cisplatin in patients with operable breast cancer: prediction of response using molecular profiling. <i>Br J Cancer</i> (2008) 98: 1327-35. 3: Troester MA, Herschkowitz JI, Oh DS , He X, Hoadley KA, Barbier CS, Perou CM. Gene expression patterns associated with p53 status in breast cancer. <i>BMC Cancer</i> (2006) 6: 276. 4: Fan C, Oh DS , Wessels L, Weigelt B, Nuyten DS, Nobel AB, van't Veer LJ, Perou CM. Concordance among gene-expression-based predictors for breast cancer. <i>N Engl J Med</i> (2006) 355: 560-9.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Oh, Daniel S (2003-2006) (CONTINUED)	Charles Perou	5: Hu Z, Fan C, Oh DS, Marron JS, He X, Qaqish BF, Livasy C, Carey LA, Reynolds E, Dressler L, Nobel A, Parker J, Ewend MG, Sawyer LR, Wu J, Liu Y, Nanda R, Tretiakova M, Ruiz Orrico A, Dreher D, Palazzo JP, Perreard L, Nelson E, Mone M, Hansen H, Mullins M, Quackenbush JF, Ellis MJ, Olopade OI, Bernard PS, Perou CM. The molecular portraits of breast tumors are conserved across microarray platforms. <i>BMC Genomics</i> (2006) 7: 96. 6: Oh DS, Troester MA, Usary J, Hu Z, He X, Fan C, Wu J, Carey LA, Perou CM. Estrogen-regulated genes predict survival in hormone receptor-positive breast cancers. <i>J Clin Oncol</i> (2006) 24: 1656-64. 7: Usary J, Llaca V, Karaca G, Presswala S, Karaca M, He X, Langerød A, Kåresen R, Oh DS, Dressler LG, Lønning PE, Strausberg RL, Chanock S, Børresen-Dale AL, Perou CM. Mutation of GATA3 in human breast tumors. <i>Oncogene</i>. 2004 23: 7669-78.
Whittle, Christina M (2003-2009)	Jason Lieb	1: Gerstein MB, Lu ZJ, Van Nostrand EL, Cheng C, Arshinoff BI, Liu T,... Whittle CM, ...Lieb JD, Waterston RH. Integrative analysis of the <i>Caenorhabditis elegans</i> genome by the modENCODE project. <i>Science</i> (2010) 330: 1775-87. 2: Whittle CM, Lazakovitch E, Gronostajski RM, Lieb JD. DNA-binding specificity and in vivo targets of <i>Caenorhabditis elegans</i> nuclear factor I. <i>Proc Natl Acad Sci USA</i> (2009) 106: 12049-54. 3: Whittle CM, McClinic KN, Ercan S, Zhang X, Green RD, Kelly WG, Lieb JD. The genomic distribution and function of histone variant HTZ-1 during <i>C. elegans</i> embryogenesis. <i>PLoS Genet</i> (2008) 4: e1000187. 4: Ercan S, Giresi PG, Whittle CM, Zhang X, Green RD, Lieb JD. X chromosome repression by localization of the <i>C. elegans</i> dosage compensation machinery to sites of transcription initiation. <i>Nat Genet</i> (2007) 39: 403-8.
Willingham, Stephen (2003-2008)	Jenny Ting	1: Davis BK, Roberts RA, Huang MT, Willingham SB, Conti BJ, Brickey WJ, Barker BR, Kwan M, Taxman DJ, Accavitti-Loper MA, Duncan JA, Ting JP. Cutting edge: NLRC5-dependent activation of the inflammasome. <i>J Immunol</i> (2011) Feb 1;186: 1333-7. Epub (2010) Dec 29. PubMed PMID: 21191067. 2: Willingham SB, Allen IC, Bergstralh DT, Brickey WJ, Huang MT, Taxman DJ, Duncan JA, Ting JP. NLRP3 (NALP3, Cryopyrin) facilitates in vivo caspase-1 activation, necrosis, and HMGB1 release via inflammasome-dependent and -independent pathways. <i>J Immunol</i> (2009) Aug 1;183: (2008-15. Epub (2009) Jul 8. PubMed PMID: 19587006. 3: Duncan JA, Gao X, Huang MT, O'Connor BP, Thomas CE, Willingham SB, Bergstralh DT, Jarvis GA, Sparling PF, Ting JP. <i>Neisseria gonorrhoeae</i> activates the proteinase cathepsin B to mediate the signaling activities of the NLRP3 and ASC-containing inflammasome. <i>J Immunol</i> (2009) May 15;182: 6460-9. PubMed PMID: 19414800; PubMed Central PMCID:

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		PMC2722440. 4: Huang MT, Taxman DJ, Holley-Guthrie EA, Moore CB, Willingham SB, Madden V, Parsons RK, Featherstone GL, Arnold RR, O'Connor BP, Ting JP. Critical role of apoptotic speck protein containing a caspase recruitment domain (ASC) and NLRP3 in causing necrosis and ASC speck formation induced by Porphyromonas gingivalis in human cells. <i>J Immunol</i> (2009) Feb 15;182: 2395-404. PubMed PMID: 19201894. 5: Willingham SB, Ting JP. NLRs and the dangers of pollution and aging. <i>Nat Immunol</i> (2008) 9: 831-3. PubMed PMID: 18645588; PubMed Central PMCID: PMC2743174. 6: Li H, Willingham SB, Ting JP, Re F. Cutting edge: inflammasome activation by alum and alum's adjuvant effect are mediated by NLRP3. <i>J Immunol</i> (2008) Jul 1;181: 17-21. PubMed PMID: 18566365; PubMed Central PMCID: PMC2587213. 7: Ting JP, Willingham SB, Bergstralh DT. NLRs at the intersection of cell death and immunity. <i>Nat Rev Immunol</i> (2008) 8: 372-9. Review. PubMed PMID: 18362948.
Willingham, Stephen (2003-2008) CONTINUED FROM PREVIOUS PAGE	Jenny Ting	8: Willingham SB, Bergstralh DT, O'Connor W, Morrison AC, Taxman DJ, Duncan JA, Barnoy S, Venkatesan MM, Flavell RA, Deshmukh M, Hoffman HM, Ting JP. Microbial pathogen-induced necrotic cell death mediated by the inflammasome components CIAS1/cryopyrin/NLRP3 and ASC. <i>Cell Host Microbe</i> (2007) Sep 13;2: 147-59. PubMed PMID: 18005730; PubMed Central PMCID: PMC2083260. 9: Duncan JA, Bergstralh DT, Wang Y, Willingham SB, Ye Z, Zimmermann AG, Ting JP. Cryopyrin/NALP3 binds ATP/dATP, is an ATPase, and requires ATP binding to mediate inflammatory signaling. <i>Proc Natl Acad Sci USA</i> (2007) May 8;104(19): 8041-6. Epub (2007) May 2. PubMed PMID: 17483456; PubMed Central PMCID: PMC1876568.
Wilson, Willie (2003-2009)	Albert Baldwin	1: Wilson W 3rd, Baldwin AS. Maintenance of constitutive IκB kinase activity by glycogen synthase kinase-3α/beta in pancreatic cancer. <i>Cancer Res</i> (2008) Oct 1;68(19): 8156-63. PubMed PMID: 18829575; PubMed Central PMCID: PMC2647811. 2: Steinbrecher KA, Wilson W 3rd, Cogswell PC, Baldwin AS. Glycogen synthase kinase 3β functions to specify gene-specific, NF-κB-dependent transcription. <i>Mol Cell Biol</i> (2005) 25(19): 8444-55. PubMed PMID: 16166627; PubMed Central PMCID: PMC1265740.
Andersen, Sabrina (2004-2010)	Jeff Sekelsky	1: Andersen SL, Kuo HK, Savukoski D, Brodsky MH, Sekelsky J. Three structure-selective endonucleases are essential in the absence of BLM helicase in Drosophila. <i>PLoS Genet</i> (2011) 7: e1002315. Epub (2011)

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		Oct 13. PubMed PMID: 22022278; PubMed Central PMCID: PMC3192830. 2: Andersen SL, Sekelsky J. Meiotic versus mitotic recombination: two different routes for double-strand break repair: the different functions of meiotic versus mitotic DSB repair are reflected in different pathway usage and different outcomes. <i>Bioessays</i> (2010) 32: 1058-66. doi: 10.1002/bies.(2010) 00087. Epub (2010) Oct 21. Review. PubMed PMID: 20967781; PubMed Central PMCID: PMC3090628. 3: Andersen SL, Bergstralh DT, Kohl KP, LaRocque JR, Moore CB, Sekelsky J. Drosophila MUS312 and the vertebrate ortholog BTBD12 interact with DNA structure-specific endonucleases in DNA repair and recombination. <i>Mol Cell</i> (2009) Jul 10;35: 128-35. PubMed PMID: 19595722; PubMed Central PMCID: PMC2746756. 4: McVey M, Andersen SL, Broze Y, Sekelsky J. Multiple functions of Drosophila BLM helicase in maintenance of genome stability. <i>Genetics</i> (2007) 176: 1979-92. Epub (2007) May 16. PubMed PMID: 17507683; PubMed Central PMCID: PMC1950607.
Clegg, Hilary (2004-2012)	Yanping Zhang	1: Clegg HV, Itahana Y, Itahana K, Ramalingam S, Zhang Y. Mdm2 RING mutation enhances p53 transcriptional activity and p53-p300 interaction. <i>PLoS One</i> (2012);7: e38212. Epub (2012) May 29. PubMed PMID: 22666487; PubMed Central PMCID: PMC3362553. 2: Clegg HV, Zhang Y. Regulation of the p53 tumor suppressor pathway: the problems and promises of studying Mdm2's E3 ligase function. <i>Crit Rev Eukaryot Gene Expr</i> (2010);20: 77-86. PubMed PMID: 20528739. 3: Itahana K, Clegg HV, Zhang Y. ARF in the mitochondria: the last frontier? <i>Cell Cycle</i> (2008) 7(23): 3641-6. Epub (2008) Dec 16. PubMed PMID: 19033735. 4: Clegg HV, Itahana K, Zhang Y. Unlocking the Mdm2-p53 loop: ubiquitin is the key. <i>Cell Cycle</i> (2008) Feb 1;7: 287-92. Epub (2007) Nov 25. Review. PubMed PMID: 18235222. 5: Itahana K, Mao H, Jin A, Itahana Y, Clegg HV, Lindström MS, Bhat KP, Godfrey VL, Evan GI, Zhang Y. Targeted inactivation of Mdm2 RING finger E3 ubiquitin ligase activity in the mouse reveals mechanistic insights into p53 regulation. <i>Cancer Cell</i> (2007) 12: 355-66. PubMed PMID: 17936560.
Cooper, Matthew (2004-Present)	Albert Baldwin Lee Graves	1: Dan HC, Cooper MJ, Cogswell PC, Duncan JA, Ting JP, Baldwin AS. Akt-dependent regulation of NF-κB is controlled by mTOR and Raptor in association with IKK. <i>Genes Dev</i> (2008) Jun 1;22: 1490-500. PubMed PMID: 18519641; PubMed Central PMCID: PMC2418585.
Cyphert, Jaime (2004-2009)	Beverly Koller	1: Cyphert JM, Allen IC, Church RJ, Latour AM, Snouwaert JN, Coffman TM, Koller BH. Allergic inflammation induces a persistent mechanistic switch in thromboxane-mediated airway constriction in the

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		mouse. <i>Am J Physiol Lung Cell Mol Physiol</i> (2012) 302: L140-51. Epub (2011) Oct 7. PubMed PMID: 21984570; PubMed Central PMCID: PMC3349367. 2: Cyphert JM, Kovarova M, Koller BH. Unique populations of lung mast cells are required for antigen-mediated bronchoconstriction. <i>Clin Exp Allergy</i> (2011) 41: 260-9. doi: 10.1111/j.1365-2222.(2010).03583.x. Epub (2010) Aug 16. PubMed PMID: 20718780. 3: Cyphert JM, Kovarova M, Allen IC, Hartney JM, Murphy DL, Wess J, Koller BH. Cooperation between mast cells and neurons is essential for antigen-mediated bronchoconstriction. <i>J Immunol</i> (2009) Jun 15;182: 7430-9. PubMed PMID: 19494266.
Deisenroth, Chad (2004-2010)	Yanping Zhang	1: Deisenroth C, Zhang Y. The Ribosomal Protein-Mdm2-p53 Pathway and Energy Metabolism: Bridging the Gap between Feast and Famine. <i>Genes Cancer</i> (2011) 2: 392-403. PubMed PMID: 21779508; PubMed Central PMCID: PMC3135641. 2: Deisenroth C, Itahana Y, Tollini L, Jin A, Zhang Y. p53-Inducible DHRS3 is an endoplasmic reticulum protein associated with lipid droplet accumulation. <i>J Biol Chem</i> (2011) Aug 12;286(32): 28343-56. Epub (2011) Jun 9. PubMed PMID: 21659514; PubMed Central PMCID: PMC3151078. 3: Macias E, Jin A, Deisenroth C, Bhat K, Mao H, Lindström MS, Zhang Y. An ARF-independent c-MYC-activated tumor suppression pathway mediated by ribosomal protein-Mdm2 Interaction. <i>Cancer Cell</i> (2010) Sep 14;18: 231-43. PubMed PMID: 20832751. 4: Deisenroth C, Thorner AR, Enomoto T, Perou CM, Zhang Y. Mitochondrial Hep27 is a c-Myb target gene that inhibits Mdm2 and stabilizes p53. <i>Mol Cell Biol</i> (2010) 30(16): 3981-93. Epub (2010) Jun 14. PubMed PMID: 20547751; PubMed Central PMCID: PMC2916441. 5: Deisenroth C, Zhang Y. Ribosome biogenesis surveillance: probing the ribosomal protein-Mdm2-p53 pathway. <i>Oncogene</i> (2010) Jul 29;29(30): 4253-60. Epub (2010) May 24. Review. PubMed PMID: 20498634. 6: Lindström MS, Deisenroth C, Zhang Y. Putting a finger on growth surveillance: insight into MDM2 zinc finger-ribosomal protein interactions. <i>Cell Cycle</i> (2007) Feb 15;6: 434-7. Epub (2007) Feb 18. Review. PubMed PMID: 17329973. 7: Lindström MS, Jin A, Deisenroth C, White Wolf G, Zhang Y. Cancer-associated mutations in the MDM2 zinc finger domain disrupt ribosomal protein interaction and attenuate MDM2-induced p53 degradation. <i>Mol Cell Biol</i> (2007) 27: 1056-68. Epub (2006) Nov 20. PubMed PMID: 17116689; PubMed Central PMCID: PMC1800693.
Dunworth, William (2004-2009)	Kathleen Caron	1: Dunworth WP, Caron KM. G protein-coupled receptors as potential drug targets for lymphangiogenesis and lymphatic vascular diseases. <i>Arterioscler Thromb Vasc Biol</i> (2009) 29: 650-6. Epub (2009) Mar 5.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		Review. PubMed PMID: 19265032; PubMed Central PMCID: PMC2761011. 2: Dunworth WP, Fritz-Six KL, Caron KM. Adrenomedullin stabilizes the lymphatic endothelial barrier in vitro and in vivo. <i>Peptides</i> (2008) 29: 2243-9. Epub (2008) Sep 24. PubMed PMID: 18929609; PubMed Central PMCID: PMC2639781. 3: Fritz-Six KL, Dunworth WP, Li M, Caron KM. Adrenomedullin signaling is necessary for murine lymphatic vascular <i>Development</i>. <i>J Clin Invest</i> (2008) 118: 40-50. PubMed PMID: 18097475; PubMed Central PMCID: PMC2147672. 4: Gibbons C, Dackor R, Dunworth W, Fritz-Six K, Caron KM. Receptor activity-modifying proteins: RAMPing up adrenomedullin signaling. <i>Mol Endocrinol</i> (2007) 21: 783-96. Epub (2006) Oct 19. Review. PubMed PMID: 17053041. 5: Dackor RT, Fritz-Six K, Dunworth WP, Gibbons CL, Smithies O, Caron KM. Hydrops fetalis, cardiovascular defects, and embryonic lethality in mice lacking the calcitonin receptor-like receptor gene. <i>Mol Cell Biol</i> (2006) 26: 2511-8. PubMed PMID: 16537897; PubMed Central PMCID: PMC1430335.
Eitas, Timothy (2004-2010)	Jeff Dangl	1: Gao Z, Chung EH, Eitas TK, Dangl JL. Plant intracellular innate immune receptor Resistance to <i>Pseudomonas syringae</i> pv. <i>maculicola</i> 1 (RPM1) is activated at, and functions on, the plasma membrane. <i>Proc Natl Acad Sci USA</i> (2011) May 3;108(18): 7619-24. Epub (2011) Apr 13. Erratum in: <i>Proc Natl Acad Sci USA</i> (2011) May 24;108(21): 8915. Gao, Zhiyoug [corrected to Gao, Zhiyong]. PubMed PMID: 21490299; PubMed Central PMCID: PMC3088580. 2: Eitas TK, Dangl JL. NB-LRR proteins: pairs, pieces, perception, partners, and pathways. <i>Curr Opin Plant Biol</i> (2010) 13: 472-7. Epub (2010) May 17. Review. PubMed PMID: 20483655; PubMed Central PMCID: PMC2910844. 3: Eitas TK, Nimchuk ZL, Dangl JL. Arabidopsis TAO1 is a TIR-NB-LRR protein that contributes to disease resistance induced by the <i>Pseudomonas syringae</i> effector AvrB. <i>Proc Natl Acad Sci USA</i> (2008) Apr 29;105(17): 6475-80. Epub (2008) Apr 18. Erratum in: <i>Proc Natl Acad Sci USA</i> (2008) Sep 30;105(39): 15219. PubMed PMID: 18424557; PubMed Central PMCID: PMC2327211.
Gaulton, Kyle (2004-2010)	Karen Mohlke	1: Lange LA, Croteau-Chonka DC, Marvelle AF, Qin L, Gaulton KJ, Kuzawa CW, McDade TW, Wang Y, Li Y, Levy S, Borja JB, Lange EM, Adair LS, Mohlke KL. Genome-wide association study of homocysteine levels in Filipinos provides evidence for CPS1 in women and a stronger MTHFR effect in young adults. <i>Hum Mol Genet</i> (2010) May 15;19: 2050-8. Epub (2010) Feb 13. PubMed PMID: 20154341; PubMed Central PMCID: PMC2860887. 2: Gaulton KJ, Nammo T, Pasquali L, Simon JM, Giresi PG, Fogarty MP, Panhuis TM, Mieczkowski P, Secchi A, Bosco D, Berney T,

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		Montanya E, Mohlke KL, Lieb JD, Ferrer J. A map of open chromatin in human pancreatic islets. <i>Nat Genet</i> (2010) 42: 255-9. Epub (2010) Jan 31. PubMed PMID: (2011) 8932; PubMed Central PMCID: PMC2828505. 3: Gaulton KJ, Willer CJ, Li Y, Scott LJ, Conneely KN, Jackson AU, Duren WL, Chines PS, Narisu N, Bonnycastle LL, Luo J, Tong M, Sprau AG, Pugh EW, Doheny KF, Valle TT, Abecasis GR, Tuomilehto J, Bergman RN, Collins FS, Boehnke M, Mohlke KL. Comprehensive association study of type 2 diabetes and related quantitative traits with 222 candidate genes. <i>Diabetes</i> (2008) 57: 3136-44. Epub (2008) Aug 4. PubMed PMID: 18678618; PubMed Central PMCID: PMC2570412. 4: Gaulton KJ, Mohlke KL, Vision TJ. A computational system to select candidate genes for complex human traits. <i>Bioinformatics</i> (2007) May 1;23: 1132-40. Epub (2007) Jan 19. PubMed PMID: 17237041.
Gonzalez-Perez Vanessa (2004-2009)	Adrienne Cox	1: González-Pérez V, Reiner DJ, Alan JK, Mitchell C, Edwards LJ, Khazak V, Der CJ, Cox AD. Genetic and functional characterization of putative Ras/Raf interaction inhibitors in <i>C. elegans</i> and mammalian cells. <i>J Mol Signal</i> (2010) Feb 23;5: 2. PubMed PMID: 20178605; PubMed Central PMCID: PMC2848644. 2: Reiner DJ, González-Pérez V, Der CJ, Cox AD. Use of <i>Caenorhabditis elegans</i> to evaluate inhibitors of Ras function in vivo. <i>Methods Enzymol</i> (2008);439: 425-49. PubMed PMID: 18374181.
Hanker, Ariella B (2004-2009)	Channing Der	1: Hanker AB, Mitin N, Wilder RS, Henske EP, Tamanoi F, Cox AD, Der CJ. Differential requirement of CAAX-mediated posttranslational processing for Rheb localization and signaling. <i>Oncogene</i> (2010) Jan 21;29: 380-91. Epub (2009) Oct 19. PubMed PMID: 19838215; PubMed Central PMCID: PMC2809798. 2: Hanker AB, Healy KD, Nichols J, Der CJ. Romidepsin inhibits Ras-dependent growth transformation of NIH 3T3 fibroblasts and RIE-1 epithelial cells independently of Ras signaling inhibition. <i>J Mol Signal</i> (2009) Aug 16;4: 5. PubMed PMID: 19682393; PubMed Central PMCID: PMC2735739. 3: Hanker AB, Morita S, Repasky GA, Ross DT, Seitz RS, Der CJ. Tools to study the function of the Ras-related, estrogen-regulated growth inhibitor in breast cancer. <i>Methods Enzymol</i> (2008);439: 53-72. PubMed PMID: 18374156.
Ince, William (2004-2010)	Ronald Swanstrom	1: Anderson JA, Archin NM, Ince W, Parker D, Wiegand A, Coffin JM, Kuruc J, Eron J, Swanstrom R, Margolis DM. Clonal sequences recovered from plasma from patients with residual HIV-1 viremia and on intensified antiretroviral therapy are identical to replicating viral RNAs recovered from circulating resting CD4+ T cells. <i>J Virol</i> (2011) 85: 5220-3. Epub (2011) Mar 2. PubMed PMID: 21367910; PubMed Central PMCID: PMC3126162. 2: Ince WL, Zhang L, Jiang Q, Arrildt K, Su L, Swanstrom R. Evolution of the HIV-1 env gene in the Rag2^{-/-} gammaC^{-/-} humanized mouse

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		model. J Virol (2010) 84: 2740-52. Epub (2009) Dec 30. PubMed PMID: 20042504; PubMed Central PMCID: PMC2826074. 3: Choudhary SK, Rezk NL, Ince WL, Cheema M, Zhang L, Su L, Swanstrom R, Kashuba AD, Margolis DM. Suppression of human immunodeficiency virus type 1 (HIV-1) viremia with reverse transcriptase and integrase inhibitors, CD4+ T-cell recovery, and viral rebound upon interruption of therapy in a new model for HIV treatment in the humanized Rag2-/-{gamma}c-/- mouse. J Virol (2009) 83(16): 8254-8. Epub (2009) Jun 3. PubMed PMID: 19494021; PubMed Central PMCID: PMC2715775. 4: Ince WL, Harrington PR, Schnell GL, Patel-Chhabra M, Burch CL, Menezes P, Price RW, Eron JJ Jr, Swanstrom RI. Major coexisting human immunodeficiency virus type 1 env gene subpopulations in the peripheral blood are produced by cells with similar turnover rates and show little evidence of genetic compartmentalization. J Virol (2009) 83: 4068-80. Epub (2009) Feb 11. PubMed PMID: 19211740; PubMed Central PMCID: PMC2668457. 5: Schnell G, Ince WL, Swanstrom R. Identification and recovery of minor HIV-1 variants using the heteroduplex tracking assay and biotinylated probes. Nucleic Acids Res (2008) 36(22): e146. Epub (2008) Oct 23. PubMed PMID: 18948297; PubMed Central PMCID: PMC2602764.
Jefferys, Stuart (2004-2011)	Morgan Giddings	1: Jefferys SR, Giddings MC. Baking a mass-spectrometry data PIE with McMC and simulated annealing: predicting protein post-translational modifications from integrated top-down and bottom-up data. Bioinformatics (2011) Mar 15;27: 844-52. PubMed PMID: 21389073; PubMed Central PMCID: PMC3051328. 2: Jefferys SR, Giddings MC. Automated data integration and determination of posttranslational modifications with the protein inference engine. Methods Mol Biol (2011);694: 255-90. PubMed PMID: 21082440.
Kim, Kui Kwon (2004-2007) Student left with MS	Nobuyo Maeda	1: Yi X, Xu L, Kim K, Kim HS, Maeda N. Genetic reduction of lipoic acid synthase expression modestly increases atherosclerosis in male, but not in female, apolipoprotein E-deficient mice. Atherosclerosis (2010) 211: 424-30. Epub (2010) Mar 10. PubMed PMID: 20347443; PubMed Central PMCID: PMC2914155. 2: Yi X, Kim K, Yuan W, Xu L, Kim HS, Homeister JW, Key NS, Maeda N. Mice with heterozygous deficiency of lipoic acid synthase have an increased sensitivity to lipopolysaccharide-induced tissue injury. J Leukoc Biol (2009) 85: 146-53. Epub (2008) Oct 9. PubMed PMID: 18845616; PubMed Central PMCID: PMC2626770.
Lee, Hyun O (2004-2010)	Robert Duronio	1: Lee HO, Zacharek SJ, Xiong Y, Duronio RJ. Cell type-dependent requirement for PIP box-regulated Cdt1 destruction during S phase. Mol Biol Cell (2010) Nov 1;21(21): 3639-53. Epub (2010) Sep 8. PubMed PMID: 20826610; PubMed Central PMCID: PMC2965682.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		2: Lee HO, Davidson JM, Duronio RJ. Endoreplication: polyploidy with purpose. <i>Genes Dev</i> (2009) Nov 1;23(21): 2461-77. Review. PubMed PMID: 19884253; PubMed Central PMCID: PMC2779750. 3: Hall JR, Lee HO, Bunker BD, Dorn ES, Rogers GC, Duronio RJ, Cook JG. Cdt1 and Cdc6 are destabilized by rereplication-induced DNA damage. <i>J Biol Chem</i> (2008) Sep 12;283(37): 25356-63. Epub (2008) Jul 10. PubMed PMID: 18617514; PubMed Central PMCID: PMC2533066. 4: Hu J, Zacharek S, He YJ, Lee H, Shumway S, Duronio RJ, Xiong Y. WD40 protein FBW5 promotes ubiquitination of tumor suppressor TSC2 by DDB1-CUL4-ROC1 ligase. <i>Genes Dev</i> (2008) Apr 1;22: 866-71. PubMed PMID: 18381890; PubMed Central PMCID: PMC2279197.
Leslie, Michelle (2004-2010)	Sarah Liljegren	1: Burr CA, Leslie ME, Orlowski SK, Chen I, Wright CE, Daniels MJ, Liljegren SJ. CAST AWAY, a membrane-associated receptor-like kinase, inhibits organ abscission in Arabidopsis. <i>Plant Physiol</i> (2011) 156: 1837-50. Epub (2011) May 31. PubMed PMID: 21628627; PubMed Central PMCID: PMC3149937. 2: Lewis MW, Leslie ME, Fulcher EH, Darnielle L, Healy PN, Youn JY, Liljegren SJ. The SERK1 receptor-like kinase regulates organ separation in Arabidopsis flowers. <i>Plant J</i> (2010) Jun 1;62: 817-28. Epub (2010) Mar 2. PubMed PMID: 20230490; PubMed Central PMCID: PMC2884084. 3: Leslie ME, Lewis MW, Youn JY, Daniels MJ, Liljegren SJ. The EVERSHED receptor-like kinase modulates floral organ shedding in Arabidopsis. <i>Development</i> (2010) 137: 467-76. PubMed PMID: (2008) 1191; PubMed Central PMCID: PMC2858908. 4: Liljegren SJ, Leslie ME, Darnielle L, Lewis MW, Taylor SM, Luo R, Geldner N, Chory J, Randazzo PA, Yanofsky MF, Ecker JR. Regulation of membrane trafficking and organ separation by the NEVERSHED ARF-GAP protein. <i>Development</i> (2009) 136: 1909-18. PubMed PMID: 19429787; PubMed Central PMCID: PMC2680113. 5: Lewis MW, Leslie ME, Liljegren SJ. Plant separation: 50 ways to leave your mother. <i>Curr Opin Plant Biol</i> (2006) 9: 59-65. Epub (2005) Dec 5. Review. PubMed PMID: 16337172.
Marvelle, Amanda (2004-2010)	Karen Mohlke	1: Croteau-Chonka DC, Marvelle AF, Lange EM, Lee NR, Adair LS, Lange LA, Mohlke KL. Genome-wide association study of anthropometric traits and evidence of interactions with age and study year in Filipino women. <i>Obesity (Silver Spring)</i>. (2011) 19: 1019-27. Epub (2010) Oct 21. PubMed PMID: 20966902; PubMed Central PMCID: PMC3046220. 2: Lange LA, Croteau-Chonka DC, Marvelle AF, Qin L, Gaulton KJ, Kuzawa CW, McDade TW, Wang Y, Li Y, Levy S, Borja JB, Lange EM, Adair LS, Mohlke KL. Genome-wide association study of homocysteine levels in Filipinos provides evidence for CPS1 in women and a stronger MTHFR effect in young adults. <i>Hum Mol Genet</i> (2010) May15;19: 2050-8. Epub (2010) Feb 13. PubMed PMID: 20154341; PubMed Central PMCID: PMC2860887.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		3: Zinman L, Liu HN, Sato C, Wakutani Y, Marvelle AF, Moreno D, Morrison KE, Mohlke KL, Bilbao J, Robertson J, Rogaeva E. A mechanism for low penetrance in an ALS family with a novel SOD1 deletion. <i>Neurology</i> (2009) Mar 31;72(13): 1153-9. PubMed PMID: 19332692; PubMed Central PMCID: PMC2680064. 4: Marvelle AF, Lange LA, Qin L, Adair LS, Mohlke KL. Association of FTO with obesity-related traits in the Cebu Longitudinal Health and Nutrition Survey (CLHNS) Cohort. <i>Diabetes</i> (2008) 57: 1987-91. Epub (2008) Apr 21. PubMed PMID: 18426866; PubMed Central PMCID: PMC2453620.
Marvelle, Amanda (2004-2010) CONTINUED FROM PREVIOUS PAGE	Karen Mohlke	5: Zeggini E, Scott LJ, Saxena R, Voight BF, Marchini JL, Hu T, de Bakker PI, Abecasis GR, Almgren P, Andersen G, Ardlie K, Boström KB, Bergman RN, Bonnycastle LL, Borch-Johnsen K, Burtt NP, Chen H, Chines PS, Daly MJ, Deodhar P, Ding CJ, Doney AS, Duren WL, Elliott KS, Erdos MR, Frayling TM, Freathy RM, Gianniny L, Grallert H, Grarup N, Groves CJ, Guiducci C, Hansen T, Herder C, Hitman GA, Hughes TE, Isomaa B, Jackson AU, Jørgensen T, Kong A, Kubalanza K, Kuruvilla FG, Kuusisto J, Langenberg C, Lango H, Lauritzen T, Li Y, Lindgren CM, Lyssenko V, Marvelle AF, Meisinger C, Midthjell K, Mohlke KL, Morken MA, Morris AD, Narisu N, Nilsson P, Owen KR, Palmer CN, Payne F, Perry JR, Pettersen E, Platou C, Prokopenko I, Qi L, Qin L, Rayner NW, Rees M, Roix JJ, Sandbaek A, Shields B, Sjögren M, Steinthorsdottir V, Stringham HM, Swift AJ, Thorleifsson G, Thorsteinsdottir U, Timpson NJ, Tuomi T, Tuomilehto J, Walker M, Watanabe RM, Weedon MN, Willer CJ; Wellcome Trust Case Control Consortium, Illig T, Hveem K, Hu FB, Laakso M, Stefansson K, Pedersen O, Wareham NJ, Barroso I, Hattersley AT, Collins FS, Groop L, McCarthy MI, Boehnke M, Altshuler D. Meta-analysis of genome-wide association data and large-scale replication identifies additional susceptibility loci for type 2 diabetes. <i>Nat Genet</i> (2008) 40: 638-45. Epub (2008) Mar 30. PubMed PMID: 18372903; PubMed Central PMCID: PMC2672416. 6: Marvelle AF, Lange LA, Qin L, Wang Y, Lange EM, Adair LS, Mohlke KL. Comparison of ENCODE region SNPs between Cebu Filipino and Asian HapMap samples. <i>J Hum Genet</i> (2007);52: 729-37. Epub (2007) Jul 18. PubMed PMID: 17636361.
Merkhofer, Evan (2004-2010)	Albert Baldwin	1: Adli M, Merkhofer E, Cogswell P, Baldwin AS. IKKalpha and IKKbeta each function to regulate NF-kappaB activation in the TNF-induced/canonical pathway. <i>PLoS One</i> (2010) Feb 25;5: e9428. PubMed PMID: 20195534; PubMed Central PMCID: PMC2828475. 2: Merkhofer EC, Cogswell P, Baldwin AS. Her2 activates NF-kappaB and induces invasion through the canonical pathway involving IKKalpha. <i>Oncogene</i> (2010) Feb 25;29: 1238-48. Epub (2009) Nov 30. PubMed PMID: 19946332; PubMed Central PMCID: PMC2829103.
Monahan, Kimberly (2004-2009)	Ned Sharpless	<i>NOTE: Publications #1 & #2 are from her maiden name</i> 1: Li W, Asokan A, Wu Z, Van Dyke T, DiPrimio N, Johnson JS, Govindaswamy L, Agbandje-McKenna M, Leichtle S, Redmond DE Jr,

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		McCown TJ, Petermann KB, Sharpless NE, Samulski RJ. Engineering and selection of shuffled AAV genomes: a new strategy for producing targeted biological nanoparticles. <i>Mol Ther</i> (2008) 16: 1252-60. Epub (2008) May 20. PubMed PMID: 18500254; PubMed Central PMCID: PMC2632803. 2: Petermann KB, Rozenberg GI, Zedek D, Groben P, McKinnon K, Buehler C, Kim WY, Shields JM, Penland S, Bear JE, Thomas NE, Serody JS, Sharpless NE. CD200 is induced by ERK and is a potential therapeutic target in melanoma. <i>J Clin Invest</i> (2007) 117: 3922-9. PubMed PMID: 18008004; PubMed Central PMCID: PMC2075477. 3: Liu W, Monahan KB, Pfefferle AD, Shimamura T, Sorrentino J, Chan KT, Roadcap DW, Ollila DW, Thomas NE, Castrillon DH, Miller CR, Perou CM, Wong KK, Bear JE, Sharpless NE. LKB1/STK11 inactivation leads to expansion of a prometastatic tumor subpopulation in melanoma. <i>Cancer Cell</i> (2012) Jun 12;21: 751-64. PubMed PMID: 22698401. 4: Monahan KB, Rozenberg GI, Krishnamurthy J, Johnson SM, Liu W, Bradford MK, Horner J, Depinho RA, Sharpless NE. Somatic p16(INK4a) loss accelerates melanomagenesis. <i>Oncogene</i> (2010) Oct 28;29(43): 5809-17. Epub (2010) Aug 9. PubMed PMID: 20697345; PubMed Central PMCID: PMC3007178. 5: Rozenberg GI, Monahan KB, Torrice C, Bear JE, Sharpless NE. Metastasis in an orthotopic murine model of melanoma is independent of RAS/RAF mutation. <i>Melanoma Res</i> (2010) 20: 361-71. PubMed PMID: 20679910; PubMed Central PMCID: PMC2972650. 4: Johnson SM, Torrice CD, Bell JF, Monahan KB, Jiang Q, Wang Y, Ramsey MR, Jin J, Wong KK, Su L, Zhou D, Sharpless NE. Mitigation of hematologic radiation toxicity in mice through pharmacological quiescence induced by CDK4/6 inhibition. <i>J Clin Invest</i> (2010) 120: 2528-36. doi: 10.1172/JCI41402. Epub (2010) Jun 23. PubMed PMID: 20577054; PubMed Central PMCID: PMC2898594.
O'Hara, Andrea J (2004-2009)	Dirk Dittmer	1: O'Hara AJ, Chugh P, Wang L, Netto EM, Luz E, Harrington WJ, Dezube BJ, Damania B, Dittmer DP. Pre-micro RNA signatures delineate stages of endothelial cell transformation in Kaposi sarcoma. <i>PLoS Pathog</i> (2009) 5: e1000389. Epub (2009) Apr 17. PubMed PMID: 19381257; PubMed Central PMCID: PMC2663814. 2: O'Hara AJ, Wang L, Dezube BJ, Harrington WJ Jr, Damania B, Dittmer DP. Tumor suppressor microRNAs are underrepresented in primary effusion lymphoma and Kaposi sarcoma. <i>Blood</i> (2009) Jun 4;113(23): 5938-41. Epub (2009) Feb 27. PubMed PMID: 19252139; PubMed Central PMCID: PMC2700328. 3: Xia T, O'Hara A, Araujo I, Barreto J, Carvalho E, Sapucaia JB, Ramos JC, Luz E, Pedrosa C, Manrique M, Toomey NL, Brites C, Dittmer DP, Harrington WJ Jr. EBV microRNAs in primary lymphomas and targeting of CXCL-11 by ebv-mir-BHRF1-3. <i>Cancer Res</i> (2008) Mar

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		1;68: 1436-42. PubMed PMID: 18316607; PubMed Central PMCID: PMC2855641. 4: O'Hara AJ, Vahrson W, Dittmer DP. Gene alteration and precursor and mature microRNA transcription changes contribute to the miRNA signature of primary effusion lymphoma. <i>Blood</i> (2008) Feb 15;111: 2347-53. Epub (2007) Dec 13. PubMed PMID: 18079361; PubMed Central PMCID: PMC2234063.
Regan, Jenna (2004-2010)	Mark Majesky	<i>NOTE: Publication #1 is from her maiden name</i> 1: Passman JN, Dong XR, Wu SP, Maguire CT, Hogan KA, Bautch VL, Majesky MW. A sonic hedgehog signaling domain in the arterial adventitia supports resident Sca1+ smooth muscle progenitor cells. <i>Proc Natl Acad Sci USA</i> (2008) Jul 8;105(27): 9349-54. Epub (2008) Jun 30. PubMed PMID: 18591670; PubMed Central PMCID: PMC2453724. 2: Duan J, Gherghe C, Liu D, Hamlett E, Srikantha L, Rodgers L, Regan JN, Rojas M, Willis M, Leask A, Majesky M, Deb A. Wnt1/βcatenin injury response activates the epicardium and cardiac fibroblasts to promote cardiac repair. <i>EMBO J</i> (2011) Nov 15;31: 429-42. doi: 10.1038/emboj.(2011).418. PubMed PMID: 22085926; PubMed Central PMCID: PMC3261567. 3: Majesky MW, Dong XR, Regan JN, Hoglund VJ. Vascular smooth muscle progenitor cells: building and repairing blood vessels. <i>Circ Res</i> (2011) Feb 4;108: 365-77. Review. PubMed PMID: 21293008; PubMed Central PMCID: PMC3382110. 4: Huang ZP, Chen JF, Regan JN, Maguire CT, Tang RH, Dong XR, Majesky MW, Wang DZ. Loss of microRNAs in neural crest leads to cardiovascular syndromes resembling human congenital heart defects. <i>Arterioscler Thromb Vasc Biol</i> (2010) 30: 2575-86. Epub (2010) Sep 30. PubMed PMID: 20884876; PubMed Central PMCID: PMC2988089. 5: Regan JN, Majesky MW. Building a vessel wall with notch signaling. <i>Circ Res</i> (2009) Feb 27;104: 419-21. PubMed PMID: 19246684; PubMed Central PMCID: PMC2727662.
Salzler, Harmony (2004-2011)	Robert Duronio	1: Burch BD, Godfrey AC, Gasdaska PY, Salzler HR, Duronio RJ, Marzluff WF, Dominski Z. Interaction between FLASH and Lsm11 is essential for histone pre-mRNA processing in vivo in <i>Drosophila</i>. <i>RNA</i> (2011) 17: 1132-47. Epub (2011) Apr 27. PubMed PMID: 21525146; PubMed Central PMCID: PMC3096045. 2: Salzler HR, Davidson JM, Montgomery ND, Duronio RJ. Loss of the histone pre-mRNA processing factor stem-loop binding protein in <i>Drosophila</i> causes genomic instability and impaired cellular proliferation. <i>PLoS One</i> (2009) Dec 4;4: e8168. PubMed PMID: 19997601; PubMed Central PMCID: PMC2781718. 3: Wagner EJ, Burch BD, Godfrey AC, Salzler HR, Duronio RJ, Marzluff WF. A genome-wide RNA interference screen reveals that variant

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		histones are necessary for replication-dependent histone pre-mRNA processing. <i>Mol Cell</i> (2007) Nov 30;28: 692-9. PubMed PMID: 18042462.
Segall, Samantha (2004-2010)	Timothy Wiltshire	1: Segall SK , Maixner W, Belfer I, Wiltshire T, Seltzer Z, Diatchenko L. Janus molecule I: dichotomous effects of COMT in neuropathic vs nociceptive pain modalities. <i>CNS Neurol Disord Drug Targets</i> (2012) 11: 222-35. PubMed PMID: 22483297. 2: Segall SK , Nackley AG, Diatchenko L, Lariviere WR, Lu X, Marron JS, Grabowski-Boase L, Walker JR, Slade G, Gauthier J, Bailey JS, Steffy BM, Maynard TM, Tarantino LM, Wiltshire T. Comt1 genotype and expression predicts anxiety and nociceptive sensitivity in inbred strains of mice. <i>Genes Brain Behav</i> (2010) 9: 933-46. doi: 10.1111/j.1601-183X.(2010).00633.x. PubMed PMID: 20659173;PubMed Central PMCID: PMC2975805.
Stamm, Demetra (2004-2007)	Marcy Speer (Duke University)	
Thorner, Aaron (2004-2010)	Charles Perou	1: Thorner AR , Parker JS, Hoadley KA, Perou CM. Potential tumor suppressor role for the c-Myb oncogene in luminal breast cancer. <i>PLoS One</i> (2010) Oct 7;5: e13073. PubMed PMID: 20949095; PubMed Central PMCID: PMC2951337. 2: Deisenroth C, Thorner AR , Enomoto T, Perou CM, Zhang Y. Mitochondrial Hep27 is a c-Myb target gene that inhibits Mdm2 and stabilizes p53. <i>Mol Cell Biol</i> (2010) 30(16): 3981-93. Epub (2010) Jun 14. PubMed PMID: 20547751; PubMed Central PMCID: PMC2916441. 3: Thorner AR , Hoadley KA, Parker JS, Winkel S, Millikan RC, Perou CM. In vitro and in vivo analysis of B-Myb in basal-like breast cancer. <i>Oncogene</i> (2009) Feb 5;28: 742-51. Epub (2008) Dec 1. PubMed PMID: 19043454; PubMed Central PMCID: PMC2636852.
Washburn, Michael (2004-2010)	Lishan Su	1: Bility MT, Zhang L, Washburn ML , Curtis TA, Kovalev GI, Su L. Generation of a humanized mouse model with both human immune system and liver cells to model hepatitis C virus infection and liver immunopathogenesis. <i>Nat Protoc</i> (2012) Aug 9;7: 1608-17. doi: 10.1038/nprot.(2012).083. Epub (2012) Aug 9. PubMed PMID: 22899330. 2: Washburn ML , Bility MT, Zhang L, Kovalev GI, Buntzman A, Frelinger JA, Barry W, Ploss A, Rice CM, Su L. A humanized mouse model to study hepatitis C virus infection, immune response, and liver disease. <i>Gastroenterology</i> (2011) 140: 1334-44. Epub (2011) Jan 13. PubMed PMID: 21237170; PubMed Central PMCID: PMC3066273. 3: Washburn ML , Kovalev GI, Koroleva E, Fu YX, Su L. LIGHT induces distinct signals to clear an AAV-expressed persistent antigen in the mouse liver and to induce liver inflammation. <i>PLoS One</i> (2010) May 14;5: e10585. PubMed PMID: 20498840; PubMed Central PMCID: PMC2871052.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		4: Jiang Q, Zhang L, Wang R, Jeffrey J, Washburn ML, Brouwer D, Barbour S, Kovalev GI, Unutmaz D, Su L. FoxP3+CD4+ regulatory T cells play an important role in acute HIV-1 infection in humanized Rag2-/- gammaC-/- mice in vivo. <i>Blood</i> (2008) Oct 1;112: 2858-68. Epub (2008) Jun 10. PubMed PMID: 18544681; PubMed Central PMCID: PMC2556621.
Wright, Tricia M (2004-2010)	Kim Rathmell	1: Wright TM, Rathmell WK. Identification of Ror2 as a hypoxia-inducible factor target in von Hippel-Lindau-associated renal cell carcinoma. <i>J Biol Chem</i> (2010) Apr 23;285(17): 12916-24. Epub (2010) Feb 25. PubMed PMID: 20185829; PubMed Central PMCID: PMC2857057. 2: Wright TM, Brannon AR, Gordan JD, Mikels AJ, Mitchell C, Chen S, Espinosa I, van de Rijn M, Pruthi R, Wallen E, Edwards L, Nusse R, Rathmell WK. Ror2, a <i>Developmentally</i> regulated kinase, promotes tumor growth potential in renal cell carcinoma. <i>Oncogene</i> (2009) Jul 9;28(27): 2513-23. Epub (2009) May 18. PubMed PMID: 19448672; PubMed Central PMCID: PMC2771692. 3: Rathmell WK, Wright TM, Rini BI. Molecularly targeted therapy in renal cell carcinoma. <i>Expert Rev Anticancer Ther</i> (2005) 5: 1031-40. Review. PubMed PMID: 16336094.
Brannon, Rose (2005-2011)	Kim Rathmell	1: Brannon AR, Haake SM, Hacker KE, Pruthi RS, Wallen EM, Nielsen ME, Rathmell WK. Meta-analysis of clear cell renal cell carcinoma gene expression defines a variant subgroup and identifies gender influences on tumor biology. <i>Eur Urol</i> (2012) 61: 258-68. Epub (2011) Oct 18. PubMed PMID: 22030119; PubMed Central PMCID: PMC3244546. 2: Oosterwijk E, Rathmell WK, Junker K, Brannon AR, Pouliot F, Finley DS, Mulders PF, Kirkali Z, Uemura H, Belldegrun A. Basic research in kidney cancer. <i>Eur Urol</i> (2011) 60: 622-33. Epub (2011) Jul 5. Review. PubMed PMID: 21741760. 3: Brannon AR, Reddy A, Seiler M, Arreola A, Moore DT, Pruthi RS, Wallen EM, Nielsen ME, Liu H, Nathanson KL, Ljungberg B, Zhao H, Brooks JD, Ganesan S, Bhanot G, Rathmell WK. Molecular Stratification of Clear Cell Renal Cell Carcinoma by Consensus Clustering Reveals Distinct Subtypes and Survival Patterns. <i>Genes Cancer</i> (2010) Feb 1;1: 152-163. PubMed PMID: 20871783; PubMed Central PMCID: PMC2943630. 4: Brannon AR, Rathmell WK. Renal cell carcinoma: where will the state-of-the-art lead us? <i>Curr Oncol Rep</i> (2010) 12: 193-201. Review. PubMed PMID: 20425079; PubMed Central PMCID: PMC2906141. 5: Liu H, Brannon AR, Reddy AR, Alexe G, Seiler MW, Arreola A, Oza JH, Yao M, Juan D, Liou LS, Ganesan S, Levine AJ, Rathmell WK, Bhanot GV. Identifying mRNA targets of microRNA dysregulated in cancer: with application to clear cell Renal Cell Carcinoma. <i>BMC Syst Biol</i> (2010) Apr 27;4: 51. PubMed PMID: 20420713; PubMed Central PMCID: PMC2876063.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		6: Wright TM, Brannon AR , Gordan JD, Mikels AJ, Mitchell C, Chen S, Espinosa I, van de Rijn M, Pruthi R, Wallen E, Edwards L, Nusse R, Rathmell WK. Ror2, a <i>Developmentally</i> regulated kinase, promotes tumor growth potential in renal cell carcinoma. <i>Oncogene</i> (2009) Jul 9;28(27): 2513-23. Epub (2009) May 18. PubMed PMID: 19448672; PubMed Central PMCID: PMC2771692.
Cockrell, Adam S (2005-2011)	Tai Kafri	1: Cockrell AS, van Praag H, Santistevan N, Ma H, Kafri T. The HIV-1 Rev/RRE system is required for HIV-1 5' UTR cis elements to augment encapsidation of heterologous RNA into HIV-1 viral particles. <i>Retrovirology</i> (2011) Jun 24;8: 51. PubMed PMID: 21702950; PubMed Central PMCID: PMC3131246. 2: Bayer M, Kantor B, Cockrell A, Ma H, Zeithaml B, Li X, McCown T, Kafri T. A large U3 deletion causes increased in vivo expression from a nonintegrating lentiviral vector. <i>Mol Ther</i> (2008) 16: 1968-76. Epub (2008) Sep 16. PubMed PMID: 18797449; PubMed Central PMCID: PMC2587457. 3: Cockrell AS, Kafri T. Gene delivery by lentivirus vectors. <i>Mol Biotechnol</i> (2007) 36: 184-204. Review. PubMed PMID: 17873406. 4: Cockrell AS, Ma H, Fu K, McCown TJ, Kafri T. A trans-lentiviral packaging cell line for high-titer conditional self-inactivating HIV-1 vectors. <i>Mol Ther</i> (2006) 14: 276-84. Epub (2006) Mar 3. PubMed PMID: 16516556. 5: Haack K, Cockrell AS, Ma H, Israeli D, Ho SN, McCown TJ, Kafri T. Transactivator and structurally optimized inducible lentiviral vectors. <i>Mol Ther</i>. 2004 Sep;10: 585-96. PubMed PMID: 15336658. 6: Cockrell AS, Kafri T. HIV-1 vectors: fulfillment of expectations, further advancements, and still a way to go. <i>Curr HIV Res</i>. 2003 Oct;1: 419-39. Review. PubMed PMID: 15049428.
Cote, Rachel (2005-2012)	Beverly Koller	1: Church RJ, Jania LA, Koller BH. Prostaglandin E produced by the lung augments the effector phase of allergic inflammation. <i>J Immunol</i> (2012) Apr 15;188: 4093-102. Epub (2012) Mar 12. PubMed PMID: 22412193; PubMed Central PMCID: PMC3324636. 2: Cyphert JM, Allen IC, Church RJ, Latour AM, Snouwaert JN, Coffman TM, Koller BH. Allergic inflammation induces a persistent mechanistic switch in thromboxane-mediated airway constriction in the mouse. <i>Am J Physiol Lung Cell Mol Physiol</i> (2012) 302: L140-51. Epub (2011) Oct 7. PubMed PMID: 21984570; PubMed Central PMCID: PMC3349367.
Freer, Stephanie (2005-2011)	Steve Crews	1: Freer SM , Lau DC, Pearson JC, Talsky KB, Crews ST. Molecular and functional analysis of Drosophila single-minded larval central brain expression. <i>Gene Expr Patterns</i> (2011) 11: 533-46. Epub (2011) Sep 14. PubMed PMID: 21945234; PubMed Central PMCID: PMC3200459.
Hesker, Pam (2005-2012)	Beverly Koller	1: Kovarova M, Hesker PR , Jania L, Nguyen M, Snouwaert JN, Xiang Z, Lommatzsch SE, Huang MT, Ting JP, Koller BH. NLRP1-Dependent Pyroptosis Leads to Acute Lung Injury and Morbidity in Mice. <i>J Immunol</i> (2012) Aug 15;189: (2006-16. Epub (2012) Jun 29. PubMed PMID:

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		22753929.
Hewitt, F Curtis (2005-2009)	Jude Samulski	1: Hewitt FC, Samulski RJ. Creating a novel origin of replication through modulating DNA-protein interfaces. <i>PLoS One</i> (2010) Jan 22;5: e8850. PubMed PMID: (2010) 7513; PubMed Central PMCID: PMC2809752. 2: Hewitt FC, Li C, Gray SJ, Cockrell S, Washburn M, Samulski RJ. Reducing the risk of adeno-associated virus (AAV) vector mobilization with AAV type 5 vectors. <i>J Virol</i> (2009) 83: 3919-29. Epub (2009) Feb 11. PubMed PMID: 19211760; PubMed Central PMCID: PMC2663261.
LaFave, Matthew (2005-2011)	Jeff Sekelsky	1: LaFave MC, Sekelsky J. Transcription initiation from within P elements generates hypomorphic mutations in <i>Drosophila melanogaster</i>. <i>Genetics</i> (2011) 188: 749-52. Epub (2011) Apr 28. PubMed PMID: 21527778; PubMed Central PMCID: PMC3176530. 2: Mukherjee S, LaFave MC, Sekelsky J. DNA damage responses in <i>Drosophila</i> nbs mutants with reduced or altered NBS function. <i>DNA Repair (Amst)</i> (2009) Jul 4;8: 803-12. Epub (2009) Apr 22. PubMed PMID: 19395318; PubMed Central PMCID: PMC2702778. 3: LaFave MC, Sekelsky J. Mitotic recombination: why? when? how? where? <i>PLoS Genet</i> (2009) 5: e1000411. Epub (2009) Mar 13. Review. PubMed PMID: 19282976; PubMed Central PMCID: PMC2648873.
Lee, Caroline (2005-2009)	Kim Rathmell	1: Lee CM, Hickey MM, Sanford CA, McGuire CG, Cowey CL, Simon MC, Rathmell WK. VHL Type 2B gene mutation moderates HIF dosage in vitro and in vivo. <i>Oncogene</i> (2009) Apr 9;28(14): 1694-705. Epub (2009) Mar 2. PubMed PMID: 19252526; PubMed Central PMCID: PMC2667565. 2: Hacker KE, Lee CM, Rathmell WK. VHL type 2B mutations retain VBC complex form and function. <i>PLoS One</i> (2008);3: e3801. Epub (2008) Nov 25. PubMed PMID: 19030229; PubMed Central PMCID: PMC2583047.
Pan, Wenqi (2005-2011)	Yanping Zhang	1: Pan W, Issaq S, Zhang Y. The in vivo role of the RP-Mdm2-p53 pathway in signaling oncogenic stress induced by pRb inactivation and Ras overexpression. <i>PLoS One</i> (2011);6: e21625. Epub (2011) Jun 29. PubMed PMID: 21747916; PubMed Central PMCID: PMC3126829.
Praveen, Kavita (2005-2012)	Greg Matera	1: Praveen K, Wen Y, Matera AG. A <i>Drosophila</i> Model of Spinal Muscular Atrophy Uncouples snRNP Biogenesis Functions of Survival Motor Neuron from Locomotion and Viability Defects. <i>Cell Rep</i> (2012) Jun 28;1: 624-31. Epub (2012) Jun 21. PubMed PMID: 22813737; PubMed Central PMCID: PMC3405901. 2: Rajendra TK, Praveen K, Matera AG. Genetic analysis of nuclear bodies: from nondeterministic chaos to deterministic order. <i>Cold Spring Harb Symp Quant Biol</i> (2010);75: 365-74. Epub (2011) Apr 5. PubMed PMID: 21467138. 3: Gonsalvez GB, Rajendra TK, Wen Y, Praveen K, Matera AG. Sm proteins specify germ cell fate by facilitating oskar mRNA localization.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		<i>Development</i> (2010) 137(14): 2341-51. PubMed PMID: 20570937; PubMed Central PMCID: PMC2889603. 4: Matera AG, Izaguirre-Sierra M, Praveen K, Rajendra TK. Nuclear bodies: random aggregates of sticky proteins or crucibles of macromolecular assembly? <i>Dev Cell</i> (2009) 17: 639-47. Review. PubMed PMID: 19922869; PubMed Central PMCID: PMC3101021. 5: Shpargel KB, Praveen K, Rajendra TK, Matera AG. Gemin3 is an essential gene required for larval motor function and pupation in <i>Drosophila</i>. <i>Mol Biol Cell</i> (2009) 20: 90-101. Epub (2008) Oct 15. PubMed PMID: 18923150; PubMed Central PMCID: PMC2613097. 6: Gonsalvez GB, Praveen K, Hicks AJ, Tian L, Matera AG. Sm protein methylation is dispensable for snRNP assembly in <i>Drosophila melanogaster</i>. <i>RNA</i> (2008) 14: 878-87. Epub (2008) Mar 27. PubMed PMID: 18369183; PubMed Central PMCID: PMC2327358
Roy, Debasmita (2005-2011)	Dirk Dittmer	1: Krown SE, Roy D, Lee JY, Dezube BJ, Reid EG, Venkataramanan R, Han K, Cesarman E, Dittmer DP. Rapamycin with antiretroviral therapy in AIDS-associated Kaposi sarcoma: an AIDS Malignancy Consortium study. <i>J Acquir Immune Defic Syndr</i> (2012) Apr 15;59: 447-54. PubMed PMID: 22067664; PubMed Central PMCID: PMC3302934. 2: Roy D, Dittmer DP. Phosphatase and tensin homolog on chromosome 10 is phosphorylated in primary effusion lymphoma and Kaposi's sarcoma. <i>Am J Pathol</i> (2011) 179: 2108-19. Epub (2011) Aug 3. PubMed PMID: 21819957; PubMed Central PMCID: PMC3181371. 3: Ramos JC, Sin SH, Staudt MR, Roy D, Vahrson W, Dezube BJ, Harrington W Jr, Dittmer DP. Nuclear factor kappa B pathway associated biomarkers in AIDS defining malignancies. <i>Int J Cancer</i> (2012) Jun 1;130: 2728-33. doi: 10.1002/ijc.26302. Epub (2011) Aug 29. PubMed PMID: 21792887; PubMed Central PMCID: PMC3265660. 4: Roy D, Sin SH, Damania B, Dittmer DP. Tumor suppressor genes FHIT and WWOX are deleted in primary effusion lymphoma (PEL) cell lines. <i>Blood</i> (2011) Aug 18;118: e32-9. Epub (2011) Jun 17. PubMed PMID: 21685375; PubMed Central PMCID: PMC3158728. 5: Koshiol J, Gulley ML, Zhao Y, Rubagotti M, Marincola FM, Rotunno M, Tang W, Bergen AW, Bertazzi PA, Roy D, Pesatori AC, Linnoila I, Dittmer D, Goldstein AM, Caporaso NE, McShane LM, Wang E, Landi MT. Epstein-Barr virus microRNAs and lung cancer. <i>Br J Cancer</i> (2011) Jul 12;105: 320-6. doi: 10.1038/bjc.(2011).221. Epub (2011) Jun 7. PubMed PMID: 21654679; PubMed Central PMCID: PMC3142804. 6: Bhatt AP, Bhende PM, Sin SH, Roy D, Dittmer DP, Damania B. Dual inhibition of PI3K and mTOR inhibits autocrine and paracrine proliferative loops in PI3K/Akt/mTOR-addicted lymphomas. <i>Blood</i> (2010) Jun 3;115(22): 4455-63. Epub (2010) Mar 18. PubMed PMID: 20299510; PubMed Central PMCID: PMC2881502.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		7: Wang FZ, Roy D, Gershburg E, Whitehurst CB, Dittmer DP, Pagano JS. Maribavir inhibits epstein-barr virus transcription in addition to viral DNA replication. <i>J Virol</i> (2009) 83(23): 12108-17. Epub (2009) Sep 16. PubMed PMID: 19759127; PubMed Central PMCID: PMC2786727. 8: Sin SH, Roy D, Wang L, Staudt MR, Fakhari FD, Patel DD, Henry D, Harrington WJ Jr, Damania BA, Dittmer DP. Rapamycin is efficacious against primary effusion lymphoma (PEL) cell lines in vivo by inhibiting autocrine signaling. <i>Blood</i> (2007) Mar 1;109: 2165-73. Epub (2006) Nov 2. PubMed PMID: 17082322; PubMed Central PMCID: PMC1801055.
Shtessel, Ludmila (2005-Present)	Shawn Ahmed	1: Cheng C, Shtessel L, Brady MM, Ahmed S. Caenorhabditis elegans POT-2 telomere protein represses a mode of alternative lengthening of telomeres with normal telomere lengths. <i>Proc Natl Acad Sci USA</i> (2012) 109: 7805-10. 2: Burdina AO, Klosterman SM, Shtessel L, Ahmed S, Richmond JE. In vivo analysis of conserved C. elegans tomosyn domains. <i>PLoS One</i> (2011) 6: e26185. 3: Shtessel L, Ahmed S. Telomere dysfunction in human bone marrow failure syndromes. <i>Nucleus</i> (2011) 2: 24-9. 4: Meier B, Barber LJ, Liu Y, Shtessel L, Boulton SJ, Gartner A, Ahmed S. The MRT-1 nuclease is required for DNA crosslink repair and telomerase activity in vivo in Caenorhabditis elegans. <i>EMBO J</i> (2009) 28: 3549-63.
Williams, Lucy (2005-2011)	Terry Magnuson	1: Williams LH , Kalantry S, Starmer J, Magnuson T. Transcription precedes loss of Xist coating and depletion of H3K27me3 during X-chromosome reprogramming in the mouse inner cell mass. <i>Development</i> (2011) 138: 2049-57.
Yuying, Xie (2005-Present)	David Threadgill	1: Eversley CD, Clark T, Xie Y , Steigerwalt J, Bell TA, de Villena FP, Threadgill DW. Genetic mapping and developmental timing of transmission ratio distortion in a mouse interspecific backcross. <i>BMC Genet</i> (2010) 11: 98.
Burr, Christian A (2006-2011)	Sarah Liljegren	1: Burr CA , Leslie ME, Orlowski SK, Chen I, Wright CE, Daniels MJ, Liljegren SJ. CAST AWAY, a membrane-associated receptor-like kinase, inhibits organ abscission in Arabidopsis. <i>Plant Physiol</i> (2011) 156: 1837-50.
Chen, Yu-Chi (2006-Present)	Manzoor Bhat	NO PUBLICATIONS YET
Cherkis, Karen (2006-2012)	Jeff Dangl	1: Cherkis KA, Temple BR, Chung EH, Sondek J, Dangl JL. AvrRpm1 Missense Mutations Weakly Activate RPS2-Mediated Immune Response in Arabidopsis thaliana. <i>PLoS One</i> (2012) 7: e42633. 2: Bonardi V, Cherkis K, Nishimura MT, Dangl JL. A new eye on NLR proteins: focused on clarity or diffused by complexity? <i>Curr Opin Immunol</i> (2012) 24: 41-50. 3: Bonardi V, Tang S, Stallmann A, Roberts M, Cherkis K, Dangl JL.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		Expanded functions for a family of plant intracellular immune receptors beyond specific recognition of pathogen effectors. <i>Proc Natl Acad Sci USA</i> (2011) 108: 16463-8. 4: Baltrus DA, Nishimura MT, Romanchuk A, Chang JH, Mukhtar MS, Cherkis K, Roach J, Grant SR, Jones CD, Dangl JL. Dynamic evolution of pathogenicity revealed by sequencing and comparative genomics of 19 <i>Pseudomonas syringae</i> isolates. <i>PLoS Pathog</i> (2011) 7: e1002132. 5: Chung EH, da Cunha L, Wu AJ, Gao Z, Cherkis K, Afzal AJ, Mackey D, Dangl JL. Specific threonine phosphorylation of a host target by two unrelated type III effectors activates a host innate immune receptor in plants. <i>Cell Host Microbe</i> (2011) 9: 125-36.
Clarke, Thomas (2006-Present)	Todd Vision	NO PUBLICATIONS YET
Comb, William (2006-2011)	Albert Baldwin	1: Comb WC, Hutti JE, Cogswell P, Cantley LC, Baldwin AS. p85α SH2 domain phosphorylation by IKK promotes feedback inhibition of PI3K and Akt in response to cellular starvation. <i>Mol Cell</i> (2012) 45: 719-30. 2: Comb WC, Cogswell P, Sitcheran R, Baldwin AS. IKK-dependent, NF-κB-independent control of autophagic gene expression. <i>Oncogene</i> (2011) 30: 1727-32. 3: Sitcheran R, Comb WC, Cogswell PC, Baldwin AS. Essential role for epidermal growth factor receptor in glutamate receptor signaling to NF-κB. <i>Mol Cell Biol</i> (2008) 28(16): 5061-70.
Fox, Raymond (2006-2011)	Nobuyo Maeda	1: Muller-Borer B, Esch G, Aldina R, Woon W, Fox R, Bursac N, Hiller S, Maeda N, Shepherd N, Jin JP, Hutson M, Anderson P, Kirby ML, Malouf NN. Calcium dependent CAMTA1 in adult stem cell commitment to a myocardial lineage. <i>PLoS One</i> (2012) 7: e38454. 2: Fox RG, Magness S, Kujoth GC, Prolla TA, Maeda N. Mitochondrial DNA polymerase editing mutation, PolgD257A, disturbs stem-progenitor cell cycling in the small intestine and restricts excess fat absorption. <i>Am J Physiol Gastrointest Liver Physiol</i> (2012) 302: G914-24. 3: Johnson LA, Arbones-Mainar JM, Fox RG, Pendse AA, Altenburg MK, Kim HS, Maeda N. Apolipoprotein E4 exaggerates diabetic dyslipidemia and atherosclerosis in mice lacking the LDL receptor. <i>Diabetes</i> (2011) 60: 2285-94. 4: Fox R, Kim HS, Reddick RL, Kujoth GC, Prolla TA, Tsutsumi S, Wada Y, Smithies O, Maeda N. Mitochondrial DNA polymerase editing mutation, PolgD257A, reduces the diabetic phenotype of Akita male mice by suppressing appetite. <i>Proc Natl Acad Sci USA</i> (2011) 108: 8779.
Gopalakrishna, Deepak (2006-Present)	Anthony LaMantia	1: Tucker ES, Segall S, Gopalakrishna D, Wu Y, Vernon M, Polleux F, Lamantia AS. Molecular specification and patterning of progenitor cells in the lateral and medial ganglionic eminences. <i>J Neurosci</i> (2008) 28: 9504-18. 2: Maynard TM, Meechan DW, Dudevoir ML, Gopalakrishna D, Peters

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		AZ, Heindel CC, Sugimoto TJ, Wu Y, Lieberman JA, Lamantia AS. Mitochondrial localization and function of a subset of 22q11 deletion syndrome candidate genes. <i>Mol Cell Neurosci</i> (2008) 39: 439-51. 3: Meechan DW, Maynard TM, Gopalakrishna D, Wu Y, LaMantia AS. When half is not enough: gene expression and dosage in the 22q11 deletion syndrome. <i>Gene Expr</i> (2007) 13: 299-310. 4: Meechan DW, Maynard TM, Wu Y, Gopalakrishna D, Lieberman JA, LaMantia AS. Gene dosage in the developing and adult brain in a mouse model of 22q11 deletion syndrome. <i>Mol Cell Neurosci</i> (2006) 33: 412.
Hanna, Sara (2006-Present)	William Kim	1: Wang Y, Roche O, Yan MS, Finak G, Evans AJ, Metcalf JL, Hast BE, Hanna SC, Wondergem B, Furge KA, Irwin MS, Kim WY, Teh BT, Grinstein S, Park M, Marsden PA, Ohh M. Regulation of endocytosis via the oxygen-sensing pathway. <i>Nat Med</i> (2009) 15: 319-24. 2: Hanna SC, Heathcote SA, Kim WY. mTOR pathway in renal cell carcinoma. <i>Expert Rev Anticancer Ther</i> (2008) 8: 283-92.
He, Yizhou (2006-Present)	Yanping Zhang	NO PUBLICATIONS YET
Hilton, Isaac (2006-Present)	Dirk Dittmer	1: Hilton IB, Dittmer DP. Quantitative Analysis of the bi-directional vGPCR and lytic LANA promoter of Kaposi sarcoma associated herpesvirus (KSHV). <i>J Virol</i>. (2012) Jun 27. 2: Chen W, Hilton IB, Staudt MR, Burd CE, Dittmer DP. Distinct p53, p53: LANA, and LANA complexes in Kaposi's Sarcoma--associated Herpesvirus Lymphomas. <i>J Virol</i> (2010) 84: 3898-908.
Kanther, Michelle (2006-2011)	John Rawls	1: Kanther M, Sun X, Mühlbauer M, Mackey LC, Flynn EJ 3rd, Bagnat M, Jobin C, Rawls JF. Microbial colonization induces dynamic temporal and spatial patterns of NF-κB activation in the zebrafish digestive tract. <i>Gastroenterology</i> (2011) 141: 197-207. 2: Kanther M, Rawls JF. Host-microbe interactions in the developing zebrafish. <i>Curr Opin Immunol</i> (2010) 22: 10-9. 3: Camp JG, Kanther M, Semova I, Rawls JF. Patterns and scales in gastrointestinal microbial ecology. <i>Gastroenterology</i> (2009) 136: 1989-2002. 4: Pham LN, Kanther M, Semova I, Rawls JF. Methods for generating and colonizing gnotobiotic zebrafish. <i>Nat Protoc</i> (2008);3: 1862-75.
Kohl, Kathryn (2006-Present)	Jeff Sekelsky	1: Andersen SL, Bergstralh DT, Kohl KP , LaRocque JR, Moore CB, Sekelsky J. Drosophila MUS312 and the vertebrate ortholog BTBD12 interact with DNA structure-specific endonucleases in DNA repair and recombination. <i>Mol Cell</i> (2009) 35: 128-35.
Leopold, Luciana (2006-Present)	Shawn Ahmed	NO PUBLICATIONS YET
Lickwar, Colin (2006-2012)	Jason Lieb	1: Lickwar CR , Mueller F, Hanlon SE, McNally JG, Lieb JD. Genome-wide protein-DNA binding dynamics suggest a molecular clutch for

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		transcription factor function. <i>Nature</i> (2012) 484: 251-5. 2: Lickwar CR , Rao B, Shabalin AA, Nobel AB, Strahl BD, Lieb JD. The Set2/Rpd3S pathway suppresses cryptic transcription without regard to gene length or transcription frequency. <i>PLoS One</i> (2009) 4: e4886.
Natalizio, Amanda (2006-Present)	Greg Matera	<i>Note: Publication is from her maiden name</i> 1: Gonsalvez GB, Praveen K, Hicks AJ , Tian L, Matera AG. Sm protein methylation is dispensable for snRNP assembly in <i>Drosophila melanogaster</i> . <i>RNA</i> (2008) 14: 878-87.
Sweet, Daniel T (2006-present)	Ellie Tzima	1: Pi X, Lockyer P, Dyer LA, Schisler JC, Russell B, Carey S, Sweet DT , Chen Z, Tzima E, Willis MS, Homeister JW, Moser M, Patterson C. Bmper inhibits endothelial expression of inflammatory adhesion molecules and protects against atherosclerosis. <i>Arterioscler Thromb Vasc Biol</i> (2012) 32: 2214-22. 2: Sweet DT , Chen Z, Wiley DM, Bautch VL, Tzima E. The adaptor protein Shc integrates growth factor and ECM signaling during postnatal angiogenesis. <i>Blood</i> (2012) 119: 1946-55. 3: Sweet DT , Tzima E. Spatial signaling networks converge at the adaptor protein Shc. <i>Cell Cycle</i> (2009) 8: 231-5. 4: Liu Y, Sweet DT , Irani-Tehrani M, Maeda N, Tzima E. Shc coordinates signals from intercellular junctions and integrins to regulate flow-induced inflammation. <i>J Cell Biol</i> (2008) 182: 185-96.
Woolls, Melissa (2006-Present)	Suk-Won Jin	NO PUBLICATIONS YET
Camp, J Gray (2007-Present)	John Rawls	1: Camp JG , Jazwa AL, Trent CM, Rawls JF. Intronic cis-regulatory modules mediate tissue-specific and microbial control of angptl4/fiaf transcription. <i>PLoS Genet</i> (2012) 8: e1002585. 2: Camp JG , Kanther M, Semova I, Rawls JF. Patterns and scales in gastrointestinal microbial ecology. <i>Gastroenterology</i> (2009) 136: 1989-2002.
Chao, Hann-Hsiang (2007-2012)	Charles Perou	1: Weigman VJ, Chao HH , Shabalin AA, He X, Parker JS, Nordgard SH, Grushko T, Huo D, Nwachukwu C, Nobel A, Kristensen VN, Børresen-Dale AL, Olopade OI, Perou CM. Basal-like Breast cancer DNA copy number losses identify genes involved in genomic instability, response to therapy, and patient survival. <i>Breast Cancer Res Treat</i> (2012) 133: 865-80. Epub (2011) Nov 3. PubMed PMID: 22048815; PubMed Central PMCID: PMC3387500.
Croteau-Chonka Damien (2007-present)	Karen Mohlke	1: Mohlke KL, Croteau-Chonka DC , Lange LA, Cupples LA, Sandhu MS, Ridker PM, Rader DJ, Kathiresan S, et al. Novel loci for adiponectin levels and their influence on type 2 diabetes and metabolic traits: a multi-ethnic meta-analysis of 45,891 individuals. <i>PLoS Genet</i> (2012) 8: e1002607. 2: Croteau-Chonka DC , Wu Y, Li Y, Fogarty MP, Lange LA, Kuzawa

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		CW, McDade TW, Borja JB, Luo J, AbdelBaky O, Combs TP, Adair LS, Lange EM, Mohlke KL. Population-specific coding variant underlies genome-wide association with adiponectin level. <i>Hum Mol Genet</i> (2012) 21: 463-71. 3: Croteau-Chonka DC, Marvelle AF, Lange EM, Lee NR, Adair LS, Lange LA, Mohlke KL. Genome-wide association study of anthropometric traits and evidence of interactions with age and study year in Filipino women. <i>Obesity (Silver Spring)</i> (2011) 19: 1019-27. 4: Wu Y, Li Y, Lange EM, Croteau-Chonka DC, Kuzawa CW, McDade TW, Qin L, Curocichin G, Borja JB, Lange LA, Adair LS, Mohlke KL. Genome-wide association study for adiponectin levels in Filipino women identifies CDH13 and a novel uncommon haplotype at KNG1-ADIPOQ. <i>Hum Mol Genet</i> (2010) 19: 4955-64. 5: Lange LA, Croteau-Chonka DC, Marvelle AF, Qin L, Gaulton KJ, Kuzawa CW, McDade TW, Wang Y, Li Y, Levy S, Borja JB, Lange EM, Adair LS, Mohlke KL. Genome-wide association study of homocysteine levels in Filipinos provides evidence for CPS1 in women and a stronger MTHFR effect in young adults. <i>Hum Mol Genet</i> (2010) 19: 2050-8. 6: Teslovich TM, Musunuru K, Smith AV, Edmondson AC, Stylianou IM, Koseki M, ...Croteau-Chonka DC, ...Mohlke KL, Ordovas JM, Munroe PB, Kooner JS, Tall AR, Hegele RA, Kastelein JJ, Schadt EE, Rotter JI, Boerwinkle E, Strachan DP, Mooser V, Stefansson K, Reilly MP, Samani NJ, Schunkert H, Cupples LA, Sandhu MS, Ridker PM, Rader DJ, van Duijn CM, Peltonen L, Abecasis GR, Boehnke M, Kathiresan S. Biological, clinical and population relevance of 95 loci for blood lipids. <i>Nature</i> (2010) 466: 707-13.
Dorr, Kerry (2007-Present)	Frank Conlon	NO PUBLICATIONS YET
Ellis, Jaclyn W (2007-present)	Leslie Lange	NO PUBLICATIONS YET
Griffin, Nicole (2007-Present)	Kirk Wilhelmsen	NO PUBLICATIONS YET
Heavner, Whitney (2007-Present)	Larysa Pevny	1: Matsushima D, Heavner W , Pevny LH. Combinatorial regulation of optic cup progenitor cell fate by SOX2 and PAX6. <i>Development</i> (2011) 138: 443-54. PubMed PMID: 21205789; PubMed Central PMCID: PMC3014633.
Hoglund, Virginia (2007-2012) Student left with MS	Mark Majesky	1: Hoglund VJ, Majesky MW. Patterning the artery wall by lateral induction of Notch signaling. <i>Circulation</i> (2012) 125: 212-5. 2: Majesky MW, Dong XR, Hoglund V, Daum G, Mahoney WM Jr. The adventitia: a progenitor cell niche for the vessel wall. <i>Cells Tissues Organs</i> (2012) 195: 73-81. 3: Majesky MW, Dong XR, Hoglund V, Mahoney WM Jr, Daum G. The adventitia: a dynamic interface containing resident progenitor cells. <i>Arterioscler Thromb Vasc Biol</i> (2011) 31: 1530-9.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		4: Majesky MW, Dong XR, Hoglund VJ. Parsing aortic aneurysms: more surprises. <i>Circ Res</i> (2011) Mar 4;108: 528-30. 5: Majesky MW, Dong XR, Regan JN, Hoglund VJ. Vascular smooth muscle progenitor cells: building and repairing blood vessels. <i>Circ Res</i> (2011) 108: 365-77. 6: Hoglund VJ, Dong XR, Majesky MW. Neointima formation: a local affair. <i>Arterioscler Thromb Vasc Biol</i> (2010) 30: 1877-9.
Johnson, Soren M (2007-2010)	Ned Sharpless	1: Roberts PJ, Usary J, Darr D, Dillon PM, Pfefferle AD, Whittle MC, Duncan JS, Johnson SM, Combest A, Jin J, Zamboni WC, Johnson GL, Perou CM, Sharpless NE. Combined PI3K/mTOR and MEK Inhibition Provides Broad Anti-Tumor Activity in Faithful Murine Cancer Models. <i>Clin Cancer Res</i> (2012) Aug 7. 2: Liu Y, Johnson SM, Fedoriw Y, Rogers AB, Yuan H, Krishnamurthy J, Sharpless NE. Expression of p16(INK4a) prevents cancer and promotes aging in lymphocytes. <i>Blood</i> (2011) 117: 3257-67. 3: Monahan KB, Rozenberg GI, Krishnamurthy J, Johnson SM, Liu W, Bradford MK, Horner J, Depinho RA, Sharpless NE. Somatic p16(INK4a) loss accelerates melanomagenesis. <i>Oncogene</i> (2010) 29: 5809-17. 4: Johnson SM, Torrice CD, Bell JF, Monahan KB, Jiang Q, Wang Y, Ramsey MR, Jin J, Wong KK, Su L, Zhou D, Sharpless NE. Mitigation of hematologic radiation toxicity in mice through pharmacological quiescence induced by CDK4/6 inhibition. <i>J Clin Invest</i> (2010) 120: 2528-36.
Lundberg, Derek S (2007-present)	Jeff Dangl	1: Lundberg DS, Lebeis SL, Paredes SH, Yourstone S, Gehring J, Malfatti S, Tremblay J, Engelbrektson A, Kunin V, del Rio TG, Edgar RC, Eickhorst T, Ley RE, Hugenholtz P, Tringe SG, Dangl JL. Defining the core Arabidopsis thaliana root microbiome. <i>Nature</i> (2012) 488: 86-90. 2: Goel AK, Lundberg D, Torres MA, Matthews R, Akimoto-Tomiyama C, Farmer L, Dangl JL, Grant SR. The Pseudomonas syringae type III effector HopAM1 enhances virulence on water-stressed plants. <i>Mol Plant Microbe Interact</i> (2008) 21: 361-70.
Rasmussen, Neal R (2007-present)	Kim Rathmell	1: Rasmussen N, Rathmell WK. Looking beyond inhibition of VEGF/mTOR: emerging targets for renal cell carcinoma drug Development. <i>Curr Clin Pharmacol</i> (2011) 6: 199-206.
Reidy, Karen T (2007-present)	Jeanette Cook	1: Varma D, Chandrasekaran S, Sundin LJ, Reidy KT, Wan X, Chasse DA, Nevis KR, DeLuca JG, Salmon ED, Cook JG. Recruitment of the human Cdt1 replication licensing protein by the loop domain of Hec1 is required for stable kinetochore-microtubule attachment. <i>Nat Cell Biol</i> (2012) 14: 593-603.
Schmitt, Chris E (2007-present)	Suk-won Jin	1: Pi X, Schmitt CE, Xie L, Portbury AL, Wu Y, Lockyer P, Dyer LA, Moser M, Bu G, Flynn EJ 3rd, Jin SW, Patterson C. LRP1-Dependent Endocytic Mechanism Governs the Signaling Output of the Bmp System in Endothelial Cells and in Angiogenesis. <i>Circ Res</i> (2012) 111: 564-74.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		2: Schmitt CE , Holland MB, Jin SW. Visualizing vascular networks in zebrafish: an introduction to microangiography. <i>Methods Mol Biol</i> (2012) 843: 59-67.
Tamburro, Kristen M (2007-present)	Dirk Dittmer	1: Chugh P, Tamburro K , Dittmer DP. Profiling of pre-micro RNAs and microRNAs using quantitative real-time PCR (qPCR) arrays. <i>J Vis Exp</i> (2010) (46). pii: 2210.
Vitucci, Mark D (2007-present)	Ryan Miller	1: Schmid RS, Vitucci M , Miller CR. Genetically engineered mouse models of diffuse gliomas. <i>Brain Res Bull</i> (2012) May 1;88: 72-9. 2: Vitucci M , Hayes DN, Miller CR. Gene expression profiling of gliomas: merging genomic and histopathological classification for personalised therapy. <i>Br J Cancer</i> (2011) 104: 545-53.
Williams, Rex L (2007-present)	Terry Magnuson	NO PUBLICATIONS YET
Anderson, Marybeth (2008-Present)	Jen Jen Yeh	NO PUBLICATIONS YET
Arreola Vargas, Alexandra (2008-present)	Kim Rathmell	1: Brannon AR, Reddy A, Seiler M, Arreola A , Moore DT, Pruthi RS, Wallen EM, Nielsen ME, Liu H, Nathanson KL, Ljungberg B, Zhao H, Brooks JD, Ganesan S, Bhanot G, Rathmell WK. Molecular Stratification of Clear Cell Renal Cell Carcinoma by Consensus Clustering Reveals Distinct Subtypes and Survival Patterns. <i>Genes Cancer</i> (2010) 1: 152-163. 2: Liu H, Brannon AR, Reddy AR, Alexe G, Seiler MW, Arreola A , Oza JH, Yao M, Juan D, Liou LS, Ganesan S, Levine AJ, Rathmell WK, Bhanot GV. Identifying mRNA targets of microRNA dysregulated in cancer: with application to clear cell Renal Cell Carcinoma. <i>BMC Syst Biol</i> (2010) 4: 51.
Bailey, Sean T (2008-present)	William Kim	1: Jonasch E, Futreal PA, Davis IJ, Bailey ST , Kim WY, Brugarolas J, Giaccia AJ, Kurban G, Pause A, Frydman J, Zurita AJ, Rini BI, Sharma P, Atkins MB, Walker CL, Rathmell WK. State of the science: an update on renal cell carcinoma. <i>Mol Cancer Res</i> (2012) 10: 859-80.
Bellendir, Stephanie (2008-present)	Jeff Sekelsky	NO PUBLICATIONS YET
Calaway, John D (2008-present)	Fernando Pardo-Manuel de Villena	NO PUBLICATIONS YET
Chan, Isaac (2008-present)	Albert Baldwin (UNC) Anna Mae Diehl (DUKE)	1: Chen Y, Choi SS, Michelotti GA, Chan IS , Swiderska M, Karaca GF, Xie G, Moylan CA, Garibaldi F, Premont R, Suliman HB, Piantodosi CA, Diehl AM. Hedgehog Controls Hepatic Stellate Cell Fate by Regulating Metabolism. <i>Gastroenterology</i> (2012) Aug 8. 2: Syn WK, Agboola KM, Swiderska M, Michelotti GA, Liaskou E, Pang H, Xie G, Philips G, Chan IS , Karaca GF, Pereira Tde A, Chen Y, Mi Z, Kuo PC, Choi SS, Guy CD, Abdelmalek MF, Diehl AM. NKT-associated hedgehog and osteopontin drive fibrogenesis in non-alcoholic fatty liver disease. <i>Gut</i> (2012) 61: 1323-9.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
		3: Xie G, Choi SS, Syn WK, Michelotti GA, Swiderska M, Karaca G, Chan IS, Chen Y, Diehl AM. Hedgehog signalling regulates liver sinusoidal endothelial cell capillarisation. <i>Gut</i> (2012) Feb 23. 4: Philips GM, Chan IS, Swiderska M, Schroder VT, Guy C, Karaca GF, Moylan C, Venkatraman T, Feuerlein S, Syn WK, Jung Y, Witek RP, Choi S, Michelotti GA, Rangwala F, Merkle E, Lascola C, Diehl AM. Hedgehog signaling antagonist promotes regression of both liver fibrosis and hepatocellular carcinoma in a murine model of primary liver cancer. <i>PLoS One</i> (2011);6: e23943.
Crowl, Tessa (2008-present)	Larysa Pevny	NO PUBLICATIONS YET
Damrauer, Jeffrey (2008-present)	William Kim	NO PUBLICATIONS YET
Freeman, Leslie (2008-present)	Jenny Ting	NO PUBLICATIONS YET
Jeck, William (2008-present)	Ned Sharpless	1: Jeck WR, Siebold AP, Sharpless NE. Review: A Meta-Analysis of GWAS Studies and Age-Associated Diseases. <i>Aging Cell</i> (2012) Aug 13. 2: Burd CE, Jeck WR, Liu Y, Sanoff HK, Wang Z, Sharpless NE. Expression of linear and novel circular forms of an INK4/ARF-associated non-coding RNA correlates with atherosclerosis risk. <i>PLoS Genet</i> (2010) 6: e1001233.
Kulzer, Jennifer (2008-present)	Karen Mohlke	1: Heid IM, Jackson AU, Randall JC, Winkler TW, Qi L, Steinthorsdottir V, ... Kulzer JR , ... Mohlke KL, Lindgren CM. Meta-analysis identifies 13 new loci associated with waist-hip ratio and reveals sexual dimorphism in the genetic basis of fat distribution. <i>Nat Genet</i> (2010) 42: 949-60.
Mitchell, Jacinth (2008-present)	Shawn Ahmed	NO PUBLICATIONS YET
Mollison, Lonna (2008-present)	Lillie Searles	NO PUBLICATIONS YET
Rizzard, Lindsay (2008-present)	Jean Cook	1: Rizzard LF , Dorn ES, Strahl BD, Cook JG. DNA Replication Origin Function is Promoted by H3K4 di-methylation in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> (2012) (in press).
Simon, Matthew (2008-present)	Shawn Ahmed	NO PUBLICATIONS YET
Smallwood, Tangi (2008-present)	Kristy Richards	NO PUBLICATIONS YET
Szmacinski, Marta (2008-present)	Frank Conlon	NO PUBLICATIONS YET
Tollini, Laura (2008-present)	Yanping Zhang	1: Deisenroth C, Itahana Y, Tollini L , Jin A, Zhang Y. p53-Inducible DHRS3 is an endoplasmic reticulum protein associated with lipid droplet accumulation. <i>J Biol Chem</i> (2011) 286: 28343-56.
Waldron, Lauren (2008-present)	Frank Conlon	1: Kaltenbrun E, Tandon P, Amin NM, Waldron L , Showell C, Conlon FL. Xenopus: An emerging model for studying congenital heart disease. <i>Birth Defects Res A Clin Mol Teratol</i> (2011) 91: 495-510.

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Bower, Brian (2009-present)	Jack Griffith	NO PUBLICATIONS YET
Coleman, Kate (2009-present)	Jean Cook	NO PUBLICATIONS YET
Gomez, Nicholas (2009-present)	Ian Davis	NO PUBLICATIONS YET
Hacker, Kathryn (2009-present)	Kim Rathmell	1: Brannon AR, Haake SM, Hacker KE, Pruthi RS, Wallen EM, Nielsen ME, Rathmell WK. Meta-analysis of clear cell renal cell carcinoma gene expression defines a variant subgroup and identifies gender influences on tumor biology. <i>Eur Urol</i> (2012) 61: 258-68. 2: Teng BL, Hacker KE, Chen S, Means AR, Rathmell WK. Tumor suppressive activity of prolyl isomerase Pin1 in renal cell carcinoma. <i>Mol Oncol</i> (2011) 5: 465-74. 3: Hacker KE, Rathmell WK. Emerging molecular classification in renal cell carcinoma: implications for drug development. <i>Target Oncol</i> (2010) 5: 75-84. 4: Hacker KE, Lee CM, Rathmell WK. VHL type 2B mutations retain VBC complex form and function. <i>PLoS One</i> (2008);3: e3801.
Hayes, Tikvah (2009-present)	Channing Der	1: Neel NF, Rossman KL, Martin TD, Hayes TK , Yeh JJ, Der CJ. The RalB small GTPase mediates formation of invadopodia through a GTPase-activating protein-independent function of the RalBP1/RLIP76 effector. <i>Mol Cell Biol</i> (2012) 32: 1374-86.
Munoz, Daniela (2009-present)	Greg Copenhaver	NO PUBLICATIONS YET
Roman, Tamara (2009-present)	Karen Mohlke	NO PUBLICATIONS YET
Romero, Noelle-Erin (2009-present)	Jeff Sekelsky	NO PUBLICATIONS YET
Serber, Daniel (2009-present)	Terry Magnuson	NO PUBLICATIONS YET
Terzo, Esteban (2009-present)	Robert Duronio	NO PUBLICATIONS YET
Waters, Crystal (2009-present)	Dale Ramsden	NO PUBLICATIONS YET
Whitlock, Amanda (2009-present)	Christina Burch	NO PUBLICATIONS YET
Wozniak, Glenn (2009-present)	Brian Strahl	NO PUBLICATIONS YET
Wright, Catherine (2009-present)	Vicki Bautch	NO PUBLICATIONS YET
Bigler, Rebecca (2010-Present)	William Marzluff	NO PUBLICATIONS YET
Brady, Megan	Shawn Ahmed	1: Cheng C, Shtessel L, Brady MM , Ahmed S. Caenorhabditis elegans

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
(2010-Present)		POT-2 telomere protein represses a mode of alternative lengthening of telomeres with normal telomere lengths. <i>Proc Natl Acad Sci USA</i> (2012) 109: 7805-10.
Buelto, Destiney (2010-Present)	Mara Duncan	NO PUBLICATIONS YET
Chong, Diana (2010-Present)	Victoria Bautch	NO PUBLICATIONS YET
Durand, Joel (2010-Present)	Albert Baldwin	NO PUBLICATIONS YET
Greenwalt, Alicia (2010-Present)	Cyrus Vaziri	NO PUBLICATIONS YET
Iglesia, Michael (2010-Present)	Charles Perou	NO PUBLICATIONS YET
McDaniel, Stephen (2010-Present)	Brian Strahl	NO PUBLICATIONS YET
Meers, Michael (2010-Present)	A. Greg Matera	NO PUBLICATIONS YET
Meserve, Joy (2010-Present)	Robert Duronio	NO PUBLICATIONS YET
Nesmith, Jessica (2010-Present)	Victoria Bautch	NO PUBLICATIONS YET
Pronobis, Mira (2010-Present)	Mark Peifer	1: Roberts DM, Pronobis MI , Poulton JS, Kane EG, Peifer M. Regulation of Wnt signaling by the tumor suppressor adenomatous polyposis coli does not require the ability to enter the nucleus or a particular cytoplasmic localization. <i>Mol Biol Cell</i> (2012) 23: 2041-56. 2: Pronobis MI , Peifer M. Wnt signaling: the many interfaces of β -catenin. <i>Curr Biol</i> (2012) 22: R137-9. 3: Roberts DM, Pronobis MI , Alexandre KM, Rogers GC, Poulton JS, Schneider DE, Jung KC, McKay DJ, Peifer M. Defining components of the β -catenin destruction complex and exploring its regulation and mechanisms of action during <i>Development</i> . <i>PLoS One</i> (2012) 7: e31284. 4: Roberts DM, Pronobis MI , Poulton JS, Waldmann JD, Stephenson EM, Hanna S, Peifer M. Deconstructing the β catenin destruction complex: mechanistic roles for the tumor suppressor APC in regulating Wnt signaling. <i>Mol Biol Cell</i> (2011) 23: 1845-63.
Zapotoczny, Grzegorz (2010-Present)	Jeff Sekelsky	NO PUBLICATIONS YET
Antonia, Ricardo (2011-Present)	Albert Baldwin	NO PUBLICATIONS YET
Berry, Garrett (2011-Present)	Aravind Asokan	NO PUBLICATIONS YET
Borchardt, Erin	Aravind	NO PUBLICATIONS YET

Publication List: GMB Students (2006-2012)

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
(2011-Present)	Asokan	
Fahey, Catherine (2011-Present)	Kim Rathmell	NO PUBLICATIONS YET
Holsclaw, Julie (2011-Present)	Jeff Sekelsky	NO PUBLICATIONS YET
Irvin, David (2011-Present)	Ryan Miller	NO PUBLICATIONS YET
Miller, Charles (2011-Present)	Cyrus Vaziri	NO PUBLICATIONS YET
Murlidharan, Giridhar (2011-Present)	Aravind Asokan	NO PUBLICATIONS YET
Parobek, Christian (2011-Present)	Jonathan Juliano	NO PUBLICATIONS YET
Rogers, Danielle (2011-Present)	Jeff Sekelsky	NO PUBLICATIONS YET
Tegowski, Matt (2011-Present)	Albert Baldwin	NO PUBLICATIONS YET
Tsao, Li-Chung (2011-Present)	Lishan Su	NO PUBLICATIONS YET
Wali, Aminah (2011-Present)	Ian Davis	NO PUBLICATIONS YET
Werlau, Rebecca (2011-Present)	Jen Jen Yeh	NO PUBLICATIONS YET
Wyatt, David (2011-Present)	Dale Ramsden	NO PUBLICATIONS YET
Yu, Zhixian (2011-Present)	Victoria Bautch	NO PUBLICATIONS YET