

Application sub-categories:

- Colony/Spheroid Counting
- Organoid Counting
- Other

Colony/Spheroid Counting

- Yuan H, Guo H, Luan X, He M, Li F, Burnett J, Truchan N and Sun D (2020). Albumin Nanoparticle of Paclitaxel (Abraxane) Decreases while Taxol Increases Breast Cancer Stem Cells in Treatment of Triple Negative Breast Cancer. *doi: 10.1021/acs.molpharmaceut.9b01221. Epub 2020 Jun 17*
- Edge SD, Renard I, Pyne E, Moody H, Roy R and Beavis AW (2020). PI3K inhibition as a novel therapeutic strategy for neoadjuvant chemoradiotherapy resistant oesophageal adenocarcinoma. *bioRxiv preprint doi: <https://doi.org/10.1101/2020.10.23.351981>*
- Giannoudis A, Malki MI, Rudraraju B, Mohmmed H, Menon S, Liloglou T, ... Palmieri C (2020). Activating transcription factor-2 (ATF2) is a key determinant of resistance to endocrine treatment in an in vitro model of breast cancer. *Breast Cancer Research, 22(1)*. doi:10.1186/s13058-020-01359-7
- Niemira M, Borowa-Mazgaj B, Bader SB, Moszynska A, Ratajewski M, Karas K, Kwasiński M, Kretowski A, Mazerska Z, Hammond EM and Skwarska A (2020). Anticancer Imdazoacridinone C-1311 is Eective in Androgen-Dependent and Androgen-Independent Prostate Cancer Cells. *Biomedicines 2020*, 8, 292; doi:10.3390/biom809292
- Coates JT, Rodríguez-Berriguete G, Puliadi R, Ashton T, Prevó R, Wing A, Granata G, Pirovano G, McKenna GW and Higgins GS (2020). The anti-malarial drug atovaquone potentiates platinum-mediated cancer cell death by increasing oxidative stress. *Cell Death Discov. 2020 Oct 27; 6:110*. doi:10.1038/s41420-020-00343-6. eCollection 2020
- Elayappalli S, Ramraj S, Benbrook DM, Bieniasz M, Wang L, Pathuri G... Gunderson CC (2020). Potential and mechanism of mebendazole for treatment and maintenance of ovarian cancer. *Gynecologic Oncology. doi:10.1016/j.ygyno.2020.10.010*
- Gagliardi M, Pitner MK, Park J, Xie X, Saso H, Larson RA, Sammons RM, Chen H, Wei C, Masuda H, Chauhan G, Kondo K, Tripathy D, Ueno NT, Dalby KN, Debeb BG and Bartholomeusz C (2020). Differential functions of ERK1 and ERK2 in lung metastasis processes in triple-negative breast cancer. *Scientific Reports | (2020) 10:8537 | <https://doi.org/10.1038/s41598-020-65250-3>*
- Clifford RE, Govindarajah N, Bowden D, Sutton P, Glenn M, Darvish-Damavandi M, Buczacki S, McDermott U, Szulc Z, Ogretmen B, Parsons JL and Vimalachandran D (2020). Targeting Acid Ceramidase to Improve the Radiosensitivity of Rectal Cancer. *Cells 2020*, 9(12), 2693; <https://doi.org/10.3390/cells9122693>
- Hong M, Almutairi MM, Li S and Li J (2020). Wogonin inhibits cell cycle progression by activating the glycogen synthase kinase-3 beta in hepatocellular carcinoma. *Phytomedicine, 68*, 153174. doi:10.1016/j.phymed.2020.153174
- Kessel D (2020). Exploring Modes of Photokilling by Hypericin. *Photochemistry and Photobiology. doi:10.1111/php.13275*
- Bao Y, Oguz G, Lee WC, Lee PL, Ghosh K, Li J, ... Yu Q (2020). EZH2-mediated PP2A inactivation confers resistance to HER2-targeted breast cancer therapy. *Nature Communications, 11(1)*. doi:10.1038/s41467-020-19704-x
- Georgiou A, Stewart A, Cunningham D, Banerji U and Whittaker SR (2020). Inactivation of NF1 Promotes Resistance to EGFR Inhibition in KRAS/NRAS/BRAFV600-Wild-Type Colorectal Cancer. *Mol Cancer Res 18:835–46*
- Kim SY, Hwang S, Choi MK, Park S, Nam KY and Kim I (2020). Molecular mechanisms underlying the effects of the small molecule AMC-04 on apoptosis: Roles of the activating transcription factor 4-C/EBP homologous protein-death receptor 5 pathway. *Chemico-Biological Interactions, 332*, 109277. doi:10.1016/j.cbi.2020.109277
- Liu CC, Veeraghavan J, Tan Y, Kim JA, Wang X, Loo SK, Lee SH, Hu Y and Wang XS (2020). A novel neoplastic fusion transcript, RAD51AP1-DYRK4, confers sensitivity to the MEK inhibitor trametinib in aggressive breast cancers. *Author Manuscript Published OnlineFirst on November 10, 2020; DOI: 10.1158/1078-0432.CCR-20-2769*
- Huang Y, Huang Q, Zhao J, Dong Y, Zhang L, Fang X, ... Lu JJ (2020). The Impacts of Different Types of Radiation on the CRT and PDL1 Expression in Tumor Cells Under Normoxia and Hypoxia. *Frontiers in Oncology, 10*. doi:10.3389/fonc.2020.01610
- Li L, Hu X, Eid JE, Rosenberg AE, Wilky BA, Ban Y, Sun X, Galoian K, DeSalvo J, Yue J, Chen XS, Blonska M and Trent JC (2020). Mutant IDH1 Depletion Downregulates Integrins and Impairs Chondrosarcoma Growth. *Cancers, 12(1)*, 141. doi:10.3390/cancers12010141
- Hughes JR and Parsons JL (2020). The E3 Ubiquitin Ligase NEDD4L Targets OGG1 for Ubiquitylation and Modulates the Cellular DNA Damage Response. *Frontiers in Cell and Developmental Biology, 8*. doi:10.3389/fcell.2020.607060
- Wang Y, Wild AT, Turcan S, Wu, WH, Sigel C, Klimstra DS, ... Chan, TA (2020). Targeting therapeutic vulnerabilities with PARP inhibition and radiation in IDH-mutant gliomas and cholangiocarcinomas. *Science Advances, 6(17)*, eaaz3221. doi:10.1126/sciadv.aaz3221
- Zenke FT, Zimmermann A, Sirrenberg C, Dahmen H, Kirkin V, Pehl U, Grombacher T, Wilm C, Fuchss T, Amendt C, Vassilev LT and Blaukat A (2020). Pharmacologic Inhibitor of DNA-PK, M3814, Potentiates Radiotherapy and Regresses Human Tumors in Mouse Models. *Mol Cancer Ther 19(5):1091-1101*
- Chou H, Grant MP, Bolt AM, Guilbert C, Plourde D, Mwale F and Mann KK (2020). Tungsten Increases Sex-Specific Osteoclast Differentiation in Murine Bone. *Toxicological Sciences, kfaa165*, <https://doi.org/10.1093/toxsci/kfaa165>
- Wiechmann S, Saupp E, Schilling D, Heinzlmeier S, Schneider G, Schmid RM, Combs SE, Kuster B and Dobiasch S (2020). Radiosensitization by Kinase Inhibition Revealed by Phosphoproteomic Analysis of Pancreatic Cancer Cells. *Mol Cell Proteomics 19(10):1649-1663*
- Deng M, Chen Z, Tan J and Liu H (2020). Down-regulation of SLC35C1 induces colon cancer through over-activating Wnt pathway. *Journal of Cellular and Molecular Medicine. doi:10.1111/jcmm.14969*
- Sarma A, Gajan A, Kim S, Gurdziel K, Mao G, Nangia-Makker P and Shekhar MPV (2020). RAD6B Loss Disrupts Expression of Melanoma Phenotype in Part by Inhibiting WNT/β-Catenin Signaling. *Am J Pathol S0002-9440(20)30496-X*
- Kim SH, Singh KB, Hahm ER, Lokeshwar BL and Singh SV (2020). Withania somnifera root extract inhibits fatty acid synthesis in prostate cancer cells. *J Tradit Complement Med 10(3):188-197*
- Schipper K, Drenth AP, van der Burg E, Cornelissen SP, Klarenbeek S, Nethé M and Jonkers J (2020). Truncated ASP22 drives initiation and progression of invasive lobular carcinoma via distinct mechanisms. *Cancer Research, canres.3607.2019*. doi:10.1158/0008-5472.can-19-3607
- Xie X, Lee J, Liu H, Pearson T, Lu AY, Tripathy D, Devi GR, Bartholomeusz C and Ueno NT (2020). Birinapant Enhances Gemcitabine's Anti-tumor Efficacy in Triple-Negative Breast Cancer by Inducing Intrinsic Pathway-Dependent Apoptosis. *Mol Cancer Ther. 2020 Dec 15; molcanther.1160.2019*. doi:10.1158/1535-7163.MCT-19-1160
- Gao SP, Kiliti AJ, Zhang K, Vasani N, Mao N, Jordan E, Wise HC, Bhattarai TS, Hu W, Dorso M, Rodrigues JA, Kim K, Hanrahan J, Razavi P, Carver B, Chandrapatya S, Reis-Filho JS, Taylor BS and Soltis DB (2020). AKT1 E17K inhibits cancer cell migration by abrogating β-catenin signalling. *Mol Cancer Res. 2020 Dec 10; molcanres.0623.2020*. doi:10.1158/1541-7786.MCR-20-0623
- Cohen AS, Geng L, Zhao P, Fu A, Schulte ML, Graves-Deal F, Washington MK, Berlin J, Coffey RJ and Manning HC (2020). Combined blockade of EGFR and glutamine metabolism in preclinical models of colorectal cancer. *Transl Oncol 13(10):100828*
- Eskra JN, Dodge A, Schlicht MJ and Bosland MC (2020). Effects of Black Raspberries and Their Constituents on Rat Prostate Carcinogenesis and Human Prostate Cancer Cell Growth In Vitro. *Nutr Cancer 72(4):672-685*
- Choudhury M, Yin X, Schaeffbauer KJ, Kang J-H, Roy B, Kottom TJ, Limper AH and Leaf EB (2020). SIRT7-mediated modulation of glutaminase 1 regulates TGF-β-induced pulmonary fibrosis. *FASEB J. 34(7):8920-8940*
- Kim JW, Min A, Im S-A, Jang H, Kim YJ, Kim H-J, Lee K-H, Kim T-Y, Lee KW, Oh D-Y, Kim J-H and Bang Y-J (2020). TDP1 and TOP1 Modulation in Olaparib-Rest Cancer Determines the Efficacy of Subsequent Chemotherapy. *Cancers (Basel) 12(2):334*
- Mondal G, Lee JC, Ravindranathan A, Villanueva-Meyer JE, Tran QT, Allen SJ, ... Solomon DA (2020). Pediatric bithalamic gliomas have a distinct epigenetic signature and frequent EGFR exon 20 insertions resulting in potential sensitivity to targeted kinase inhibition. *Acta Neuropathologica. doi:10.1007/s00401-020-02155-5*
- Du F, Li Z, Zhang G, Shaoyan S, Geng D, Tao Z, Qiu K, Liu S, Zhou Y, Zhang Y, Gu J, Wang G, Li L and Wu W (2020). SIRT2, a direct target of miR-212-5p, suppresses the proliferation and metastasis of colorectal cancer cells. *J Cell Mol Med. 2020 Sep;24(17):9985-9998*
- Slater K, Heeran AB, Garcia-Mulero S, Kalirai H, Sanz-Pamplona R, Rahman A, Al-Attar N, Helmi M, O'Connell F, Bosch R, Portela A, Villanueva A, Gallagher WM, Jensen LD, Piuilats JM, Coupland SE, O'Sullivan J and Kennedy BN (2020). High Cysteinyl Leukotriene Receptor 1 Expression Correlates with Poor Survival of Uveal Melanoma Patients and Cognate Antagonist Drugs Modulate the Growth, Cancer Secretome, and Metabolism of Uveal Melanoma Cells. *Cancers (Basel) 12(10):2950*
- Álvarez-Quiñón A, Wojtaszek JL, Mathieu MC, Patel T, Appel CD, Hustedt N, Rossi SE, Wallace BD, Setiapatra D, Adam S, Ohashi Y, Melo H, Cho T, Gervais C, Muñoz IM, Grazzini E, Young JTF, Rouse J, Zinda M, Williams RS and Durocher D (2020). Endogenous DNA 3' Blocks Are Vulnerabilities for BRCA1 and BRCA2 Deficiency and Are Reversed by the APE2 Nuclease. *Mol Cell 78(6):1152-1165.e8*
- Herbert KJ, Puliadi R, Prevó R, Rodríguez-Berriguete R, Ryan A, Ramadan K and Higgins GS (2020). Targeting TOPK sensitises tumour cells to radiation-induced damage by enhancing replication stress. *Cell Death Differ. 2020 Nov 9;doi: 10.1038/s41418-020-00655-1*. Online ahead of print.
- Hernandez DM, Kang J, Choudhury M, Andrianifahanana M, Yin X, Limper AH and Leaf EB (2020). IPF pathogenesis is dependent upon TGFβ induction of IGF-1. *The FASEB Journal. doi:10.1096/fj.2019017199*
- Pinto-Fernandez A, Salio M, Partridge T, Chen J, Vere G, Greenwood H, ... Kessler BM (2020). Deletion of the deISGylating enzyme USP18 enhances tumour cell antigenicity and radiosensitivity. *British Journal of Cancer. doi:10.1038/s41416-020-01167-y*
- Machackova T, Vychytilova-Faltejskova P, Souckova K, Trachtova K, Brchnelova D, Svoboda M, Kiss I, Prochazka V, Kala Z and Slaby O (2020). MIR-215-5p Reduces Liver Metastasis in an Experimental Model of Colorectal Cancer through Regulation of ECM-Receptor Interactions and Focal Adhesion. *Cancers (Basel) 12(12):3518*
- Deuker MM, Lewis KN, Ingaramo M, Kimmel J, Buffenstein R and Settleman J (2020). Unprovoked Stabilization and Nuclear Accumulation of the Naked Mole-Rat p53 Protein. *Sci Rep 10(1):6966*. doi:10.1038/s41598-020-64009-0
- Terpsi Vitti E, Kapcerek A and Parsons JL (2020). Targeting DNA Double-Strand Break Repair Enhances Radiosensitivity of HPV-Positive and HPV-Negative Head and Neck Squamous Cell Carcinoma to Photons and Protons. *Cancers (Basel) 12(6):1490*. doi:10.3390/cancers12061490
- Kaur A, Sepramaniam S, Stanley Lim JY, Patnaik S, Harmston N, Lee MA, Petretto E, Virshup DM and Madan B (2020). WNT inhibition creates a BRCA-like state in Wnt-addicted cancer. *BioRxiv preprint doi: <https://doi.org/10.1101/2020.06.17.157024>*
- Hussain RN, Coupland SE, Khzouz J, Kalirai H, and Parsons JL (2020). Inhibition of ATM Increases the Radiosensitivity of Uveal Melanoma Cells to Photons and Protons. *Cancers, 12(6)*, 1388. doi:10.3390/cancers12061388
- Liang Y, Hou L, Li L, Li L, Zhu L, Wang Y, ... Meng X (2020). Dichloroacetate restores colorectal cancer chemosensitivity through the p53/miR-149-3p/PDK2-mediated glucose metabolic pathway. *Oncogene. doi:10.1038/s41388-019-1035-8*
- Then CK, Paillas S, Wang X, Hampson A and Kiltie AE (2020). Association of Bacteroides acidifaciens relative abundance with high-biret diassociates radiosensitivity. *BMC Biol 18, 102 (2020)*. <https://doi.org/10.1186/s12915-020-00836-x>
- Hu X, Villodre ES, Larson R, Rahal OM, Wang X, Gong Y, Song J, Krishnamurthy S, Ueno NT, Tripathy D, Woodward WA and Debeb BG (2020). Decorin, a novel negative modulator of E-cadherin in inflammatory breast cancer. *bioRxiv preprint doi: <https://doi.org/10.1101/2020.07.07.190496>*
- Onera E, Kotmaccib M, Bairda A-M, Gray SD, Butuner BD, Bozkurt E, Kantarcib AG and Finna SP (2020). Development of EphA2 siRNA-loaded lipid nanoparticles and combination with a small-molecule histone demethylase inhibitor in prostate cancer cells and tumor spheroids. *bioRxiv preprint doi: <https://doi.org/10.1101/2020.09.28.315341>*
- Rai R, Essel KG, Benbrook DM, Garland J, Zhao YD and Chandra V (2020). Preclinical Efficacy and Involvement of AKT, mTOR, and ERK Kinases in the Mechanism of Sulforaphane against Endometrial Cancer. *Cancers (Basel) 12(5):1273*. doi:10.3390/cancers12051273
- Kierulff-Vieira KS, Sandberg CJ, Waaler J, Lund K, Skaga E, Saberniak BM, ... Vik-Mo EO (2020). A Small-Molecule Tankyrase Inhibitor Reduces Glioma Stem Cell Proliferation and Sphere Formation. *Cancers, 12(6)*, 1630. doi:10.3390/cancers12061630
- Hoffmann S, Pentakota S, Mund A, Haahr P, Coscia F, Gallo M, Mann M, Taylor NMI, Mailand N (2020). Gain-of-function mutations amplify cytotoxic FAM111 protease activity in human genetic Disorders. *bioRxiv preprint doi: <https://doi.org/10.1101/2020.03.16.993600>*
- Barczak W., Jin L., Carr, S. M., Munro, S., Ward, S., Kanapin, A., ... La Thangue, N. B. (2020). PRMT5 promotes cancer cell migration and invasion through the E2F pathway. *Cell Death & Disease, 11(7)*. doi:10.1038/s41419-020-02771-9
- Guérillon C, SmedegaardS, Hendriks IA, Nielsen ML, and Mailand N (2020). Multisite SUMOylation restrains DNA polymerase interactions with DNA damage sites. *J. Biol. Chem 295(25) 8350–8362*
- Lee J, Robinson ME, Ma N, Artadji D, Ahmed MA, Xiao G, Sadras T, Deb G, Winchester J, Cosgun KN, Geng H, Chan LN, Kume K, Miettinen TP, Zhang Y, Nix MA, Klemm L, Chen CW, Chen J, Khairnar V, Wiita AP, Thomas-Tikhonenko A, Farzan M, Jung JU, Weinstock DM, Manalis SR, Diamond MS, Vaidehi N and Mischen M (2020). IFITM3 functions as a PIP3 scaffold to amplify PI3K signalling in B cells. *Nature 588(7838):491-497*
- Schwarz K, Dobiasch S, Nguyen L, Schilling D, and Combs SE (2020). Modification of radiosensitivity by Curcumin in human pancreatic cancer cell lines. *Scientific Reports, 10(1)*. doi:10.1038/s41598-020-60765-1

- Yu J, Qin B, Moyer AM, Nowsheen S, Tu X, Dong H, Boughey JC, Goetz MP, Weinsilbourn R, Lou Z and Wang L (2020). Regulation of sister chromatid cohesion by nuclear PD-L1. *Cell Res* 30(7):590-601
- Gizaw NY, Kallio P, Pungert T, Kinnunen M, Gucciardo E, Lehti K, Caj H, Böhling T, Varjosalo M, Sampo M, Aitalo K, and Kivelä R (2020). PROX1 transcription factor is a master regulator of myogenic and oncogenic features of rhabdomyosarcoma. *bioRxiv preprint doi: <https://doi.org/10.1101/2020.04.19.045989>*
- Mandemaker IK, Zhou D, Bruens ST, Dekkers DH, Verschure PJ, Edupuganti R, ... Martejin JA (2020). Histone H1 eviction by the histone chaperone SET reduces cell survival following DNA damage. *Journal of Cell Science*, jcs.235473. doi:10.1242/jcs.235473
- Chan, L. N., Murakami, M. A., Robinson, M. E., Caesar, R., Sadras, T., Lee, J., ... Mischen, M. (2020). Signalling input from divergent pathways subverts B cell transformation. *Nature*. doi:10.1038/s41586-020-2513-4
- Lee K, Guerrero-Zotano AL, Servetto A, Sudhan DR, Lin C-C, Formisano L, ... Arteaga CL (2020). Proline rich 11 (PRR11) overexpression amplifies PI3K signaling and promotes antiestrogen resistance in breast cancer. *Nature Communications*, 11(1). doi:10.1038/s41467-020-19291-x
- Hossen MN, Wang L, Chinthalapally HR, Robertson JD, Fung K-M, Wilhelm S, ... Mukherjee P (2020). Switching the intracellular pathway and enhancing the therapeutic efficacy of small interfering RNA by auroliopins. *Science Advances*, 6(30), eaba5379. doi:10.1126/sciadv.aba5379
- Moose DL, Krog BL, Kim T-H, Zhao L, Williams-Perez S, Burke G, Rhodes R, Vanneste M, Breheny P, Milhem M, Stipp CS, Rowat AC and Henry MD (2020). Cancer Cells Resist Mechanical Destruction in Circulation via RhoA/Actomyosin-Dependent Mechano-Adaptation. *Cell Rep*. 30(11):3864-3874.e6
- Drainas AP, Lambuta RA, Ivanova I, Serçin Ö, Sarropoulos I, Smith ML, ... Korbel JO (2020). Genome-wide Screens Implicate Loss of Cullin Ring Ligase 3 in Persistent Proliferation and Genome Instability in TP53-Deficient Cells. *Cell Reports*, 31(1), 107465
- Yamazaki CM, Yamaguchi A, Anami Y, Xiong W, Otani Y, Lee J, Ueno NT, Zhang N, An Z, Tsuchikawa K (2020). Antibody-drug conjugates with dual payloads for combating breast tumor heterogeneity and drug resistance. *bioRxiv preprint doi: <https://doi.org/10.1101/2020.12.18.423326>*
- Qureshi R., Picon-Ruiz M., Aurrekoetxea-Rodriguez, I., Nunes de Paiva, V., D'Amico, M., Yoon, H., ... Slingerland, J. M. (2020). The Major Pre- and Postmenopausal Estrogens Play Opposing Roles in Obesity-Driven Mammary Inflammation and Breast Cancer Development. *Cell Metabolism*, 31(6), 1154–1172.e9. doi:10.1016/j.cmet.2020.05.008
- Hewitt G, Borel V, Segura-Bayona S, Takaki T, Ruis P, Bellelli R, Lehmann LC, Sommerova L, Vancevska A, Tomas-Loba A, Zhu K, Cooper C, Fugger K, Patel H, Goldstone R, Schneider-Luftman D, Herbert E, Stamp G, Brough R, Pettitt S, Lord CJ, West SC, Ahel I, Ahel D, Chapman JR, Deindl S and Boulton SJ (2020). Defective ALC1 nucleosome remodeling confers PARP1 sensitization and synthetic lethality with HRD. *Mol Cell*. S1097-2765(20)30898-4
- Joshi HA, Patwardhan RS, Sharma D, Sandur SK and Devarajan PV (2020). Pre-clinical Evaluation of An Innovative Oral Nano-formulation of Baicalein for Modulation of Radiation Responses. *Int J Pharm*. 2020 Dec 23;120181. doi: 10.1016/j.ijpharm.2020.120181. Online ahead of print.
- Liu XJ, Jiang YJ, Nowak B, Ichikawa S, Ohtawa M, Matsuda A and Plunkett W (2020). Repair of DNA damage induced by the novel nucleoside analogue CNDAG through homologous recombination. *Cancer Chemother Pharmacol* 85(4), 661-672
- Hong M, Almutairi MM, Li S and Li J (2020). Wogonin inhibits cell cycle progression by activating the glycogen synthase kinase-3 beta in hepatocellular carcinoma. *Phytomedicine* 68:153174
- Lee Y, Eum H, Lee D, Lee SH, Song YS and Kang SW (2020). Mutant-selective topological conversion facilitates selective degradation of a pathogenic prion isoform. *Cell Death Differ* 27(1), 284-296
- Wang Q, López-Ozuna VM, Baloch T, Bithras J, Amin O, Kessous R, Kogan L, Laskov I and Yasmeen A (2020). Biguanides in combination with olaparib limits tumorigenesis of drug-resistant ovarian cancer cells through inhibition of Snail. *Cancer Med* 9(4), 1307-1320
- Lee SH, Shin Y, Kim K, Song Y, Kim Y and Kang SW (2020). Protein Translocation Acquires Substrate Selectivity Through ER Stress-Induced Reassembly of Translocon Auxiliary Components. *Cells*. 9(2), 518
- Kim SH, Hahn ER, Singh KB, Shiva S1, Stewart-Ornstein J and Singh SV (2020). RNA-seq reveals novel mechanistic targets of withaferin A in prostate cancer cells. *Carcinogenesis* 41(6), 778-789
- Beeby E, Magalhães M, Poças J, Collins T, Lemos MFL, Barros L, Ferreira ICFR, Cabral C and Isabel M Pires IM (2020). Secondary metabolites (essential oils) from sand-dune plants induce cytotoxic effects in cancer cells. *J Ethnopharmacol*. 2020 Aug 10;258:112803. doi: 10.1016/j.jep.2020.112803. Epub 2020 Apr 3.
- Kang JH, Jung MY, Choudhury M and Leaf EB (2020). Transforming growth factor beta induces fibroblasts to express and release the immunomodulatory protein PD-L1 into extracellular vesicles. *FASEB J*. 34(2), 2213-2226
- Guo JL, Tang T, Li JH, Yang YH, Zhang L and Quan Y (2020). LncRNA HEIH Enhances Paclitaxel-Tolerance of Endometrial Cancer Cells via Activation of MAPK Signaling Pathway. *Pathol Oncol Res*. 26(3), 1757-1766
- Flem-Karlsen K, McFadden E, Omar N, Haugen MH, Øy GF, Ryder T, Gullestad HP, Hermann R, Mølandsmo GM and Flørenes VA (2020). Targeting AXL and the DNA damage response pathway as a novel therapeutic strategy in melanoma. *Mol Cancer Ther* 19(3), 895-905
- Ramraj SK, Elayapillai SP, Pelikan RC, Zhao YD, Isingizwe ZR, Kennedy AL, Lightfoot SA and Benbrook DM (2020). Novel ovarian cancer maintenance therapy targeted at mTOR and mutant p53. *Int J Cancer*. 147(4), 1086-1097
- Hannafon BN, Cai A, Calloway CL, Xu YF, Zhang R, Fung KM and Ding WQ (2019). miR-23b and miR-27b are oncogenic microRNAs in breast cancer: evidence from a CRISPR/Cas9 deletion study. *BMC Cancer* 19(1), 642
- Cornelissen LM, de Bruijn R, Henneman L Kim Y, Zwart W and Jonkers J (2019). GATA3 Truncating Mutations Promote Cistromic Re-Programming In Vitro, but Not Mammary Tumor Formation in Mice. *J Mammary Gland Biol Neoplasia* 24(3), 271-284
- Li S, Chen C, Xiong X, Huang Y, Hu J, Fan Z and Ling K (2019). Type Iγ phosphatidylinositol phosphate kinase dependent cell migration and invasion are dispensable for tumor metastasis. *Am J Cancer Res*. 9(5), 959-974
- Jimenez-Pascual A, Hale JS, Kordowski A, Pugh J, Silver DJ, Bayik D, Roversi G, Alban TJ, Rao S, Chen R, McIntyre T, Colombo G, Tarabozetti G, Holmberg KO, Forsberg-Nilsson K, Lathia JD and Siebzehnrubl FA (2019). ADAMDEC1 Maintains a Growth Factor Signaling Loop in Cancer Stem Cells. *Cancer Discov* 9(11), 1574-1589
- Aguila B, Morris AB, Spina R, Bar E, Schraner J, Vinkler R, Sohn JW and Welford SM (2019). The Ig superfamily protein PTGFRN coordinates survival signaling in glioblastoma multiforme. *Cancer Lett* 462, 33-42
- Shao Y, Chen J, Freeman W, Dong LJ, Zhang ZH, Xu M, Qiu F, Du Y, Liu J, Li XR and Ma JX (2019). Canonical Wnt Signaling Promotes Neovascularization Through Determination of Endothelial Progenitor Cell Fate via Metabolic Profile Regulation. *Stem Cells* 37(10), 1331-1343
- Carter RJ, Milani M, Butterworth M, Alotibi A, Harper N, Yedida G, Greaves G, Al-Zebeeby A, Jorgensen A, Schache AG, Risk JM, Shaw RJ, Jones TM, Sacco JJ, Hurlstone A, Cohen GM and Varadarajan S (2019). Exploring the potential of B3 mimetic therapy in squamous cell carcinoma of the head and neck. *Cell Death Dis* 10(12), 91
- Huai Y, Zhang Y, Xiong X, Das S, Bhattacharya R and Mukherjee P (2019). Gold Nanoparticles sensitize pancreatic cancer cells to gemcitabine. *Cell Stress*3(8), 267-279
- Sun L, Fang Y, Wang X, Han Y, Du F, Li C, Hu H, Liu H, Liu Q, Wang J, Liang J, Chen P, Yang H, Nie Y, Wu K, Fan D, Coffey RJ, Lu Y, Zhao X and Wang X (2019). miR-302a Inhibits Metastasis and Cetuximab Resistance in Colorectal Cancer by Targeting NFIB and CD44. *Theranostics* 9(26), 8409-8425
- Carter RJ, Nickson CM, Thompson JM, Kacperek A, Hill MA and Parsons JL (2019). Characterisation of Deubiquitylating Enzymes in the Cellular Response to High-LET Ionizing Radiation and Complex DNA Damage. *Int J Radiat Oncol Biol Phys* 104(3), 656-665
- Liang Y, Zhu D, Zhu L, Hou Y, Hou L, Huang X, Li L, Wang Y, Li L, Zou H, Wu T, Yao M, Wang J and Meng X (2019). Dichloroacetate Overcomes Oxaliplatin Chemoresistance in Colorectal Cancer through the miR-543/PTEN/Akt/mTOR Pathway. *J Cancer* 10(24), 6037-6047
- Santiago-Gómez A, Kedward T, Simões BM, Dragoni I, NicAmhlaibh R, Trivier E, Sabin V, Gee JM, Sims AH, Howell SJ and Clarke RB (2019). PAK4 regulates stemness and progression in endocrine resistant ER-positive metastatic breast cancer. *Cancer Lett* 458, 66-75
- Mazzu YZ, Armenia J, Chakraborty G, Yoshikawa Y, Coggins SA, Nandakumar S, Gerke TA, Pomerantz MM, Qiu X, Zhao H, Atiq M, Khan N, Komura K, Lee GM, Fine SW, Bell C, O'Connor E, Long HW, Freedman ML, Kim B and Kantoff PW (2019). A Novel Mechanism Driving Poor-Prognosis Prostate Cancer: Overexpression of the DNA Repair Gene, Ribonucleotide Reductase Small Subunit M2 (RRM2). *Clin Cancer Res* 25(14), 4480-4492
- Qureishi A, Rieunier G, Shah KA, Aleksic T, Winter SC, Møller H and Macaulay VM (2019). Radioresistant laryngeal cancers upregulate type 1 IGF receptor and exhibit increased cellular dependence on IGF and EGF signalling. *Clin Otolaryngol* 44(6), 1026-1036
- Gisler S, Maia ARR, Chandrasekaran G and van Lohuizen MMS (2019). A genome-wide enrichment screen identifies NUMA1-loss as a resistance mechanism against mitotic cell-death induced by BLM1 inhibition. *bioRxiv Dec. 24, 2019; doi: <http://dx.doi.org/10.1101/2019.12.24.887851>*
- Giordano A, Liu Y, Armeson K, Park Y, Ridinger M, Erlander M, Reuben J, Britten C, Kappler C, Yeh E and Ethier S (2019). Polo-like kinase 1 (Plk1) inhibition synergizes with taxanes in triple negative breast cancer. *PLoS One* 14(11), e0224420
- Salem A, Little RA, Latif A, Featherstone AK, Babur M, Peset I, Cheung S, Watson Y, Tessaïman Y, Mistry H, Ashton G, Behan C, Matthews JC, Asselin MC, Bristol RG, Jackson A, Parker GJM, Faivre-Finn C, Williams KJ and O'Connor JP (2019). Oxygen-enhanced MRI Is Feasible, Repeatable, and Detects Radiotherapy-induced Change in Hypoxia in Xenograft Models and in Patients with Non-small Cell Lung Cancer. *Clin Cancer Res* 25(13), 3818-3829
- Lopes JL, Chaudhry S, Lopes GS, Levin NK and Tainsky MA (2019). FANCM, RAD1, CHEK1 and TP53 act as BRCA-like tumor suppressors and are mutated in hereditary ovarian cancer. *Cancer Genet* 235-236, 57-64
- Kessel D (2019). Pathways to Paraptosis After ER Photodamage in OVCAR-5 Cells. *Photochem Photobiol*. 95(5), 1239-1242
- Wienholz F, Zhou D, Turkiylmaz Y, Schwertman P, Tresini M, Pines A, van Toorn M, Bezstarosti K, Demmers JAA and Martejin JA (2019). FACT subunit Spt16 controls UVSSA recruitment to lesion-stalled RNA Pol II and stimulates TC-NER. *Nucleic Acids Res* 47(8), 4011-4025
- Cheshire P, Zhafira AS, Banakh I, Rahman MM, Carmichael I, Herson M, Cleland H and Akbarzadeh S (2019). Xenogeneic expansion of adult keratinocytes for clinical application: the use of human-derived feeder cells and serum. *Cell Tissue Res* 376(3), 389-400.
- Lee J, Lim B, Pearson T, Choi K, Fuson JA, Bartholomeusz C, Paradiso LJ, Myers T, Tripathy D and Ueno NT (2019). Anti-tumor and anti-metastasis efficacy of E6201, a MEK1 inhibitor, in preclinical models of triple-negative breast cancer. *Breast Cancer Res Treat* 175(2), 339-351
- Skaga E, Skaga IØ, Grieg Z, Sandberg CJ, Langmoen IA and Vik-Mo EO (2019). The efficacy of a coordinated pharmacological blockade in glioblastoma stem cells with nine repurposed drugs using the CUSP9 strategy. *J Cancer Res Clin Oncol* 145(6), 1495-1507
- Sambandam V, Frederick MJ, Shen L, Tong P, Rao X, Peng S, Singh R, Mazumdar T, Huang C, Li Q, Pickering CR, Myers JN, Wang J and Johnson FM (2019). PDK1 Mediates NOTCH1-Mutated Head and Neck Squamous Carcinoma Vulnerability to Therapeutic PI3K/mTOR Inhibition. *Clin Cancer Res*. 25(11), 3329-3340
- Kessel D (2019). Apoptosis, Paraptosis and Autophagy: Death and Survival Pathways Associated with Photodynamic Therapy. *Photochem Photobiol*. 95(1), 119-125
- Lee M, Lee KH, Min A, Kim J, Kim S, Jang H, Lim JM, Kim SH, Ha DH, Jeong WJ, Suh KJ, Yang YW, Kim TY, Oh DY, Bang YJ and Im SA (2019). Pan-Pim Kinase Inhibitor AZD1208 Suppresses Tumor Growth and Synergistically Interacts with Akt Inhibition in Gastric Cancer Cells. *Cancer Res Treat*. 51(2), 451-463
- Polireddy K, Singh K, Pruski M, Jones NC, Manisundaram NV, Ponnala P, Ouellette M, Van Buren G, Younes M, Bynon JS, Dar WA and Bailey JM (2019). Mutant p53R175H promotes cancer initiation in the pancreas by stabilizing HSP70. *Cancer Lett* 453, 122-130
- Lai TH, Mitchell S, Wu PJ, Orwick S, Liu C, Ravikrishnan J, Woyach J, Mims A, Plunkett W, Puduvali VG, Byrd JC, Lapalombella R and Sampath D (2019). HSP90 inhibition depletes DNA repair proteins to sensitize acute myelogenous leukemia to nucleoside analog chemotherapeutics. *Leuk Lymphoma* 18, 1-4
- Sun B, Jensen NR, Chung D, Yang M, LaRue AC, Cheung HW and Wang Q (2019). Synergistic effects of SHP2 and PI3K pathway inhibitors in GAB2-overexpressing ovarian cancer. *Am J Cancer Res* 9(1), 145-159
- Carter RJ, Nickson CM, Thompson JM, Kacperek A, Hill MA, Parsons JL (2019). Characterisation of Deubiquitylating Enzymes in the Cellular Response to High-LET Ionizing Radiation and Complex DNA Damage. *Int J Radiat Oncol Biol Phys*. 2019 Mar 7. pii: S0360-3016(19)30309-8
- Guo Q, Li VZ, Nichol JN, Huang F, Yang W, Preston S, Talat Z, Lefrère H, Yu H, Zhang G, Basik M, Gonçalves C, Zhan Y, Plourde D, Su J, Torres J, Marques M, Habyan SA, Bijian K, Amant F, Witcher M, Behbod F, McCaffrey L, Alaoui-Jamali M, Giannakopoulos NV, Brackstone M, Postovit LM, Del Rincón SV and Miller WH Jr (2019). MNK1/NDAL Signaling Promotes Invasive Progression of Breast Ductal Carcinoma In Situ. *Cancer Res* 79(7), 1646-1657
- Baloch T, López-Ozuna VM, Wang Q, Matanis E, Kessous R, Kogan L, Yasmeen A and Gotlieb WH (2019). Sequential therapeutic targeting of ovarian Cancer harboring dysfunctional BRCA1. *BMC Cancer* 19(1):44
- Park YL, Kim HP, Cho YW, Min DW, Cheon SK, Lim YJ, Song SH, Jin Kim S, Han SW, Park KJ and Kim TY (2019) Activation of WNT/β-catenin signaling results in resistance to a dual PI3K/mTOR inhibitor in colorectal cancer cells harboring PIK3CA mutations. *Int J Cancer* 144(2), 389-401
- Castro NP, Rangel MC, Merchant AS, MacKinnon G, Cuttitta F, Salomon DS and Kim YS (2019). Sulforaphane Suppresses the Growth of Triple-negative Breast Cancer Stem-like Cells In vitro and In vivo. *Cancer Prev Res (Phila)* 12(3), 147-158
- MH, Fonseca CS, Zeidler JD, Albuquerque LL, da Silva MS, Cararo-Lopes E, Reis MS, Noël V, Dos Santos EO, Prior IA and Armelin HA (2019). Fibroblast Growth Factor 2 lethally sensitizes cancer cells to stress-targeted therapeutic inhibitors. *Mol Oncol* 13(2), 290-306
- Steuer B, Turkiylmaz Y, van Toorn M, van Leeuwen W, Escudero-Ferruz P and Martejin JA (2019). Fluorescently-labelled CPD and 6-4-PP photolyases: new tools for live-cell DNA damage quantification and laser-assisted repair. *Nucleic Acids Res* 47(7), 3536-3549

- Graves-Deal R, Bogatcheva G, Rehman S, Lu Y, Higginbotham JN and Singh B (2019). Broad-spectrum receptor tyrosine kinase inhibitors overcome de novo and acquired modes of resistance to EGFR-targeted therapies in colorectal cancer. *Oncotarget* 10(13), 1320-1333
- Cruz-Lozano M, González-González A, Marchal JA, Muñoz-Muela E, Molina MP, Cara FE, Brown AM, García-Rivas G, Hernández-Brenes C, Lorente JA, Sanchez-Rovira P, Chang JC and, Grandos-Principal S (2019). Hydroxytyrosol inhibits cancer stem cells and the metastatic capacity of triple-negative breast cancer cell lines by the simultaneous targeting of epithelial-to-mesenchymal transition, Wnt/β-catenin and TGFβ signaling pathways. *Eur J Nutr* 58(8), 3207-3219
- Greaves G, Milani M, Butterworth M, Carter RJ, Byrne DP, Eyers PA, Luo X, Cohen GM and Varadarajan S (2019). BH3-only proteins are dispensable for apoptosis induced by pharmacological inhibition of both MCL-1 and BCL-XL. *Cell Death Differ* 26(6), 1037-1047
- Menoni H, Wienholz F, Theil AF, Janssens RC, Lans H, Campalans A, Radicella JP, Martijn JA and Vermeulen W (2018). The transcription-coupled DNA repair-initiating protein XRC1 promotes XRCC1 recruitment to oxidative DNA damage. *Nucleic Acids Res* 46(15), 7747-7756
- Chen X, Legrand AJ, Cuniffe S, Hume S, Poletto M, Vaz B, Ramadan K, Yao D and Dianov GL (2018). Interplay between base excision repair protein XRC1 and ALDH2 predicts overall survival in lung and liver cancer patients. *Cell Oncol (Dordr)* 41(5), 527-539
- Wank M, Schilling D, Reindl J, Meyer B, Gempert J, Motov S, Alexander F, Wilkens JJ, Schlegel J, Schmid TE and Combs SE (2018). Evaluation of radiation-related invasion in primary patient-derived glioma cells and validation with established cell lines: impact of different radiation qualities with differing LET. *J Neurooncol* 139(3), 583-590
- Sadek KW, Haik MY, Ashour AA, Baloch T, Aboukassim T, Yasmeen A, Vranic S, Zeidan A and Al Moustafa AE (2018). Water-pipe smoking promotes epithelial-mesenchymal transition and invasion of human breast cancer cells via ERK1/ERK2 pathways. *Cancer Cell Int* 18:180
- Hale SJ, Jimenez-Pascual A, Kordowski A, Pugh J, Rao S, Silver DJ, Alban T, Watson DB, Chen R, McIntyre TM, Colombo G, Tarabozzi G, Holmberg KO, Forsberg-Nilsson K, Lathia JD and Siebzehnrub FA (2018). ADAMDEC1 maintains a novel growth factor signaling loop in cancer stem cells. *bioRxiv preprint first posted online Jan 26, 2019*; doi: <http://dx.doi.org/10.1101/531509>.
- Rizvi I, Obaid G, Bano S, Hasan T and Kessel D (2018). Photodynamic therapy: Promoting in vitro efficacy of photodynamic therapy by liposomal formulations of a photosensitizing agent. *Lasers Surg Med* 50(5), 499-505
- Min A, Kim JE, Kim YJ, Lim JM, Kim S, Kim JW, Lee KH, Kim TY, Oh D, Bang YJ and Im SA (2018). Cyclin E overexpression confers resistance to the CDK4/6 specific inhibitor palbociclib in gastric cancer cells. *Cancer Lett* 430, 123-132
- Turcato F, Kim P, Barnett A, Jin Y, Scerba M, Casey A, Selman W, Greig NH and Luo Y (2018). Sequential combined Treatment of Pifithrin-α and Posiphen Enhances Neurogenesis and Functional Recovery After Stroke. *Cell Transplant* 27(4), 607-621 Childress MA, Himmelberg SM, Chen H, Deng W, Davies MA and Lovly CM (2018). ALK Fusion Partners Impact Response to ALK Inhibition: Differential Effects on Sensitivity, Cellular Phenotypes, and Biochemical Properties. *Mol Cancer Res* 16(11), 1724-1736
- McDaniel NK, Cummings CT, Iida M, Hulse J, Pearson HE, Vasileiadi E, Parker RE, Orbuch RA, Ondracek OJ, Welke NB, Kang GH, Davies KD, Wang X, Frye SV, Earp HS, Harari PM, Kimple RJ, DeRyckere D, Graham DK and Wheeler DL (2018). MERTK mediates intrinsic and adaptive resistance to AXL-targeting agents. *Mol Cancer Ther* 17(11), 2297-2308
- Yan D, Parker RE, Wang X, Frye SV, Earp HS 3rd, DeRyckere D and Graham DK (2018). MERTK Promotes Resistance to Irreversible EGFR Tyrosine Kinase Inhibitors in Non-small Cell Lung Cancers Expressing Wild-type EGFR Family Members. *Clin Cancer Res* 24(24), 6523-6535
- Liu B, Han D, Zhang T, Cheng G, Yinliang L, Wang J, Zhao H and Zhao Z (2018). Hypoxia-induced autophagy promotes EGFR loss in specific cell contexts, which leads to cell death and enhanced radiosensitivity. *Int J Biochem Cell Biol* 111, 12-18
- Jurmeister S, Ramos-Montoya A, Sandi C, Pêrtega-Gomes N, Wadhwa K, Lamb AD, Dunning MJ, Attig J, Carroll JS, Fryer LG, Felisbino SL and Neal DE (2018). Identification of potential therapeutic targets in prostate cancer through a cross-species approach. *EMBO Mol Med* 2018 Mar;10(3). pii: e8274. doi: [10.15252/emmm.201708274](https://doi.org/10.15252/emmm.201708274)
- Rizzotto L, Lai TH, Bottoni A, Woyach JA, Lapalombella R, Bloomfield CD, Byrd JC and Sampath D (2018). Role and regulation of microRNAs targeting BTK in acute myelogenous leukemia. *Leuk Lymphoma* 59(6), 1461-1465
- Turcato F, Kim P, Barnett A, Jin Y, Scerba M, Casey A, Selman W, Greig NH and Luo Y (2018). Sequential combined Treatment of Pifithrin-α and Posiphen Enhances Neurogenesis and Functional Recovery After Stroke. *Cell Transplant* 27(4), 607-621
- Rizvi I, Obaid G, Bano S, Hasan T and Kessel D (2018). Photodynamic therapy: Promoting in vitro efficacy of photodynamic therapy by liposomal formulations of a photosensitizing agent. *Lasers Surg Med* 50(5), 499-505
- Lin M, Zhang X, Jia B and Guan S (2018). Suppression of glioblastoma growth and angiogenesis through molecular targeting of methionine aminopeptidase-2. *J Neurooncol* 136(2), 243-254
- Dompe N, Klijn C, Watson SA, Leng K, Port J, Cuellar T, Watanabe C, Haley B, Neve R, Evangelista M and Stokoe D (2018). A CRISPR screen identifies MAPK7 as a target for combination with MEK inhibition in KRAS mutant NSCLC. *PLoS One* 13(6):e0199264
- Bhat RR, Yadav P, Sahay D, Bhargava DK, Creighton CJ, Yazdanfarid S, Al-Rawi A, Yadav V, Qin L, Nanda S, Sethunath V, Fu X, De Angelis C, Narkar VA, Osborne CK, Schiff R and Trivedi MV (2018). GPCRs profiling and identification of GPR110 as a potential new target in HER2+ breast cancer. *Breast Cancer Res Treat* 170(2), 279-292
- Niklaus NJ, Humbert M and Tschan MP (2018). Cisplatin sensitivity in breast cancer cells is associated with particular DMTF1 splice variant expression. *Biochem Biophys Res Commun* 503(4), 2800-2806
- Gong C, Valduga J, Chateau A, Richard M, Pellegrini-Moise N, Barberi-Heyob M, Chastagner P and Boura C (2018). Stimulation of medulloblastoma stem cells differentiation by a peptidomimetic targeting neuropilin-1. *Oncotarget* 9(20), 15312-15325
- Laird JH, Lok BH, Ma J, Bell A, de Stanchina E, Poirier JT and Rudin CM (2018). Talazoparib Is a Potent Radiosensitizer in Small Cell Lung Cancer Cell Lines and Xenografts. *Clin Cancer Res* 24(20), 5143-5152
- Koh SB, Wallez Y, Dunlop CR, Bernaldo de Quirós Fernández S, Bapiro TE, Richards W and Jodrell DI (2018). Mechanistic Distinctions between CHK1 and WEE1 Inhibition Guide the Scheduling of Triple Therapy with Gemcitabine. *Cancer Res* 78(11), 3054-3066
- Wallez Y, Dunlop CR, Johnson TI, Koh SB, Fornari C, Yates JWT, Bernaldo de Quirós Fernández S, Lau A, Richards FM and Jodrell DI (2018). The ATR Inhibitor AZD6738 Synergizes with Gemcitabine In Vitro and In Vivo to Induce Pancreatic Ductal Adenocarcinoma Regression. *Mol Cancer Ther* 17(8), 1670-1682
- Ha JR, Ahn R, Smith HW, Sabourin V, Hébert S, Cepeda Cañedo E, Im YK, Kleinman CL, Muller WJ and Ursini-Siegel J (2018). Integration of Distinct ShcA Signaling Complexes Promotes Breast Tumor Growth and Tyrosine Kinase Inhibitor Resistance. *Mol Cancer Res* 16(5), 894-908
- Chen X, Legrand AJ, Cuniffe S, Hume S, Poletto M, Vaz B, Ramadan K, Yao D and Dianov GL (2018). Interplay between base excision repair protein XRC1 and ALDH2 predicts overall survival in lung and liver cancer patients. *Cell Oncol* 41(5), 527-539
- Rodríguez-Berriguete G, Granata G, Puliadi R, Tiwana G, Prevo R, Wilson RS, Yu S, Buffa F, Humphrey TC, McKenna WG and Higgins GS (2018). Nucleoporin 54 contributes to homologous recombination repair and post-replicative DNA integrity. *Nucleic Acids Res* 46(15), 7731-7746
- Jung M, Kang JH, Hernandez DM, Yin X, Andrianifahanana M, Wang Y, Gonzalez-Guerrico A, Limper AH, Lupu R and Leaf EB (2018). Fatty acid synthase is required for profibrotic TGF-β signaling. *FASEB J* 32(7), 3803-3815
- Wang H, Zhang C, Chi H and Meng Z (2018). Synergistic anticancer effects of bufalin and sorafenib by regulating apoptosis associated proteins. *Mol Med Rep* 17(6), 8101-8110
- Sabatella M, Theil AF, Ribeiro-Silva C, Slyska J, Thijssen K, Voskamp C, Lans H and Vermeulen W (2018). Repair protein persistence at DNA lesions characterizes XPF defect with Cockayne syndrome features. *Nucleic Acids Res* 46(18), 9563-9577
- Rahal OM, Wolfe AR, Mandal PK, Larson R, Tin S, Jimenez C, Zhang D, Horton J, Reuben JM, McMurray JS and Woodward WA (2018). Blocking Interleukin (IL)4- and IL13-Mediated Phosphorylation of STAT6 (Tyr641) Decreases M2 Polarization of Macrophages and Protects Against Macrophage-Mediated Radioresistance of Inflammatory Breast Cancer. *Int J Radiat Oncol Biol Phys* 100(4), 1034-1043
- Rhyasen GW, Yao Y, Zhang J, Dulak A, Castriotta L, Jacques K, Zhao W, Gharahdaghi F, Hattersley MM, Lyne PD, Clark E, Zinda M, Fawell SE, Mills GB and Chen H (2018). BRD4 amplification facilitates an oncogenic gene expression program in high-grade serous ovarian cancer and confers sensitivity to BET inhibitors. *PLoS One* 13(7):e0200826
- Hlouschek J, Ritter V, Wirsdörfer F, Klein D, Jendrossek V and Matschke J (2018). Targeting SLC25A10 alleviates improved antioxidant capacity and associated radioresistance of cancer cells induced by chronic-cycling hypoxia. *Cancer Lett* 439, 24-38
- Hlouschek J, Hansel C, Jendrossek V and Matschke J (2018). The Mitochondrial Citrate Carrier (SLC25A1) Sustains Redox Homeostasis and Mitochondrial Metabolism Supporting Radioresistance of Cancer Cells With Tolerance to Cycling Severe Hypoxia. *Front Oncol* 8:1770
- Ha JR, Ahn R, Smith HW, Sabourin V, Hébert S, Cepeda Cañedo E, Im YK, Kleinman C, Muller WJ and Ursini-Siegel J (2018). Integration of distinct ShcA signaling complexes promotes breast tumor growth and tyrosine kinase inhibitor resistance. *Mol Cancer Res* 16(5), 894-908
- Xu H, Wang T, Yang C, Li X, Liu G, Yang Z, Singh PK, Krishnan S and Ding D (2018). Supramolecular Nanofibers of Curcumin for Highly Amplified Radiosensitization of Colorectal Cancers to Ionizing Radiation. *Adv Funct Mater* 2018, 1707140. <https://doi.org/10.1002/adfm.201707140>
- Piscitello D, Varshney D, Lilla S, Viziosi MG, Reid C, Gorbunova V, Seluanov A, Gillespie DA and Adams PD3 (2018). AKT overactivation can suppress DNA repair via p70S6 kinase-dependent downregulation of MRE11. *Oncogene* 37(4), 427-438
- Carter RJ, Nickson CM, Thompson JM, Kacperek A, Hill MA and Parsons JL (2018). Complex DNA Damage Induced by High Linear Energy Transfer Alpha-Particles and Protons Triggers a Specific Cellular DNA Damage Response. *Int J Radiat Oncol Biol Phys* 100(3), 776-784
- Liu X, Jiang Y, Nowak B, Qiang B, Cheng N, Chen Y and Plunkett W (2018). Targeting BRCA1/2 deficient ovarian cancer with CNDAC-based drug combinations. *Cancer Chemother Pharmacol* 81(2), 255-267
- Young MA, Daly CS, Taylor E, James R, Clarke AR and Reed KR (2018). Subtle Stimulation of the Wnt-Signaling Pathway Through Loss of Apc2 Reduces the Fitness of Intestinal Stem Cells. *Stem Cells* 36(1), 114-122
- Dillon MT, Barker HE, Pedersen M, Hafsi H, Bhide SA, Newbold KL, Nutting CM, McLaughlin M and Harrington KJ (2017). Radiosensitization by the ATR Inhibitor AZD6738 through Generation of Acentric Micronuclei. *Mol Cancer Ther* 16(1), 25-34
- Jayakumar S, Patwardhan RS, Pal D, Singh B, Sharma D, Kutala VK and Sandur SK (2017). Mitochondrial targeted curcumin exhibits anticancer effects through disruption of mitochondrial redox and modulation of TrxR2 activity. *Free Radic Biol Med* 113, 530-538
- Choy L, Hagenbeek TJ, Solon M, French D, Finkle D, Shelton A, Venook R, Brauer MJ and Siebel CW (2017). Constitutive NOTCH3 Signaling Promotes the Growth of Basal Breast Cancers. *Cancer Res* 77(6), 1439-1452
- Han Y, Ren J, Lee E, Xu X, Yu W and Muegge K (2017). Lsh/HELLS regulates self-renewal/proliferation of neural stem/progenitor cells. *Sci Rep* 7(1), 1136
- Eskra JN, Kuiper JW, Walden PD, Bosland MC and Özten N (2017). Interactive effects of 9-cis-retinoic acid and androgen on proliferation, differentiation, and apoptosis of LNCaP prostate cancer cells. *Eur J Cancer Prev* 26(1), 71-77
- Polosukhina D, Love HD, Moses HL, Lee E, Zent R and Clark PE (2017). Pharmacologic Inhibition of β-Catenin With Pyvinium Inhibits Murine and Human Models of Wilms Tumor. *Oncol Res* 25(9), 1653-1664
- Morgillo F, Della Corte CM, Diana A, Mauro CD, Ciaramella V, Barra G, Belli V, Franzese E, Bianco R, Maiello E, de Vita F, Ciardiello F and Orditura M (2017). Phosphatidylinositol 3-kinase (PI3K)/AKT axis blockade with taselisib or ipatasertib enhances the efficacy of anti-microtubule drugs in human breast cancer cells. *Oncotarget* 8(44), 76479-76491
- Mandemaker IK, van Cuijk L, Janssens RC, Lans H, Bezstarosti K, Hoeijmakers JH, Demmers JA, Vermeulen W and Martijn JA (2017). DNA damage-induced histone H1 ubiquitylation is mediated by HUWE1 and stimulates the RNF8-RNF168 pathway. *Sci Rep* 7(1), 15353
- Naidu S, Shi L, Magee P, Middleton JD, Laganá A, Sahoo S, Leong HS, Galvin M, Frese K, Dive C, Guzzardo V, Fassan M and Garofalo M (2017). PDGFR-modulated miR-23b cluster and miR-125a-5p suppress lung tumorigenesis by targeting multiple components of KRAS and NF-κB pathways. *Sci Rep* 7(1), 15441
- Fitzpatrick PA, Akrap N, Söderberg EMV, Harrison H, Thomson GJ and Landberg G (2017). Robotic Mammography Assay for High-Throughput Screening in Triple-Negative Breast Cancer. *SLAS Discov* 22(7), 827-836
- Jiang M, Zhuang H, Xia R, Gan L, Wu Y, Ma J, Sun Y and Zhuang Z (2017). KIF11 is required for proliferation and self-renewal of docetaxel resistant triple negative breast cancer cells. *Oncotarget* 8(54), 92106-92118
- Witt AE, Lee CW, Lee TI, Azzam DJ, Wang B, Caslini C, Petrocca F, Grosso J, Jones M, Cohick EB, Gropper AB, Wahlestedt C, Richardson AL, Shiekhhattar R, Young RA and Ince TA (2017). Identification of a cancer stem cell-specific function for the histone deacetylases, HDAC1 and HDAC7, in breast and ovarian cancer. *Oncogene* 36(12), 1707-1720
- Espindola-Netto JM, Chini CCS, Tarragó M, Wang E, Dutta S, Pal K, Mukhopadhyay D, Sola-Penna M and Chini EN (2017). Preclinical efficacy of the novel competitive NAMPT inhibitor STF-118804 in pancreatic cancer. www.impactjournals.com/oncotarget/ *Oncotarget*, *Advance Publications* 2017
- Schwarz LJ, Hutchinson KE, Brent N, Rexer BN et al (2017). An ERBB1-3 Neutralizing Antibody Mixture With High Activity Against Drug-Resistant HER2+ Breast Cancers With ERBB Ligand Overexpression. *JNCI* 109(11) dx065. <https://doi.org/10.1093/jnci/djx065>
- Mazzu YZ, Hu Y, Soni RK, Mojica KM, Qin LX, Agius P, Waxman ZM, Mihailovic A, Socci ND, Hendrickson RC, Tuschl T and Singer S (2017). miR-193b-regulated signaling networks serve as tumor suppressors in liposarcoma and promote adipogenesis in adipose-derived stem cells. *Cancer Res* 77(21), 5728-5740

- Chen C, Wang X, Fang J, Xue J, Xiong X, Huang Y, Hu J and Ling K (2017). EGFR-induced phosphorylation of type I γ phosphatidylinositol phosphate kinase promotes pancreatic cancer progression. *Oncotarget* 8 (26), 42621-42637
- Li C, Singh B, Graves-Deal R, Ma H, Starchenko A, Fry WH, Lu Y, Wang Y, Bogatcheva G, Khan MP, Milne GL, Zhao S, Ayers GD, Li N, Hu H, Washington MK, Yeatman TJ, McDonald OG, Liu Q, Coffey RJ (2017). Three-dimensional culture system identifies a new mode of cetuximab resistance and disease-relevant genes in colorectal cancer. *Proc Natl Acad Sci U S A*. 114(14), E2852-E2861
- Matsuki M, Adachi Y, Ozawa Y, Kimura T, Hoshi T, Okamoto K, Tohyama O, Mitsuhashi K, Yamaguchi A, Matsui J and Funahashi Y (2017). Targeting of tumor growth and angiogenesis underlies the enhanced antitumor activity of lenvatinib in combination with everolimus. *Cancer Sci* 108(4), 763-771
- Rinaldi F, Del Favero E, Rondelli V, Pieretti S, Bogni A, Ponti J, Rossi F, Di Marzio L, Paolino D, Marianecci C and Carafa M (2017). pH-sensitive niosomes: Effects on cytotoxicity and on inflammation and pain in murine models. *J Enzyme Inhib Med Chem* 32(1), 538-546
- Gallenne T, Ross KN, Visser NL, Salony, Desmet CJ, Wittner BS, Wessels LFA, Ramaswamy S and Peeper DS (2017). Systematic functional perturbations uncover a prognostic genetic network driving human breast cancer. *Oncotarget* 8(13), 20572-20587
- Choy L, Hagenbeek TJ, Solon M, French D, Finkle D, Shelton A, Venook R, Brauer MJ and Siebel CW (2017). Constitutive NOTCH3 Signaling Promotes the Growth of Basal Breast Cancers. *Oncotarget* 8(13), 20572-20587
- Polosukhina D, Love HD, Correa H, Su Z, Dahlman KB, Pao W, Moses HL, Arteaga CL, Lovvorn HN 3rd, Zent R and Clark PE (2017). Functional KRAS mutations and a potential role for PI3K/AKT activation in Wilms Tumors. *Mol Oncol* 11(4), 405-421
- Wang X, Reyes ME, Zhang D, Funakoshi Y, Trape AP et al (2017). EGFR signaling promotes inflammation and cancer stem-like activity in inflammatory breast cancer. www.impactjournals.com/oncotarget/ *Oncotarget, Advance Publications* 2017
- Jansen VM, Bhola NE, Bauer JA, Formisano L, Lee KM, Hutchinson KE, Witkiewicz AK, Moore PD, Estrada MV, Sánchez V, Ericsson PG, Sanders ME, Pohlmann PR, Pishvaian MJ, Riddle DA, Dugger TC, Wei W, Knudsen ES and Arteaga CL (2017). Kinome-Wide RNA Interference Screen Reveals a Role for PDK1 in Acquired Resistance to CDK4/6 Inhibition in ER-Positive Breast Cancer. *Cancer Res* 77(9), 2488-2499
- Han Y, Ren J, Lee E, Xu X, Yu W and Muegge K (2017). Lsh/HELLS regulates self-renewal/proliferation of neural stem/progenitor cells. *Sci Rep* 7(1), 1136
- Yu H, Jiang Y, Liu L, Shan W, Chu X, Yang Z and Yang ZQ (2017). Integrative genomic and transcriptomic analysis for pinpointing recurrent alterations of plant homeodomain genes and their clinical significance in breast cancer. *Oncotarget* 8(8), 13099-13115
- Xie X, Kaoud TS, Edupuganti R, Zhang T, Kogawa T, Zhao Y, Chauhan GB, Giannoukos DN, Qi Y, Tripathy D, Wang J, Gray NS, Dalby KN, Bartholomeusz C, Ueno NT (2017). c-Jun N-terminal kinase promotes stem cell phenotype in triple-negative breast cancer through upregulation of Notch1 via activation of c-Jun. *Oncogene* 36(18), 2599-2608
- Voss DM, Spina R, Carter DL, Lim KS, Jeffery CJ and Bar EE (2017). Disruption of the monocarboxylate transporter-4-basinin interaction inhibits the hypoxic response, proliferation, and tumor progression. *Sci Rep* 7(1), 4292
- Tanei T, Choi DS, Rodriguez AA, Liang DH, Dobrolecki L, Caceres S, Peña L, Lacerda L, Illera MJ, de Andres PJ, Larson RA, Gao H, Debeb BG, Woodward WA, Reuben JM and Illera JC (2017). Canine cell line, IPC-366, as a good model for the study of inflammatory breast cancer. *Vet Comp Oncol* 15(3), 980-995
- Witt AE, Lee CW, Lee TI, Azzam DJ, Wang B, Caslini C, Petrocchio F, Grosso J, Jones M, Cohick EB, Gropper AB, Wahlestedt C, Richardson AL, Shiekhhattar R, Young RA and Ince TA (2017). Identification of a cancer stem cell-specific function for the histone deacetylases, HDAC1 and HDAC7, in breast and ovarian cancer. *Oncogene* 36(12), 1707-1720
- Lanfardini S, Olivero C, Borgogna C, Calati F, Powell K, Davies KJ, De Andrea M, Harries 1, Tang HKC, Pfister H, Gariglio M and Patel GK (2017). HPV8 Field Cancerization in a Transgenic Mouse Model Is due to Lig1+ Keratinocyte Stem Cell Expansion. *J Invest Dermatol* 137(10), 2208-2216
- Kessel D and Reiners JJ Jr (2017). Effects of Combined Lysosomal and Mitochondrial Photodamage in a Non-small-Cell Lung Cancer Cell Line: The Role of Paraptosis. *Photochem Photobiol* 93(6), 1502-1508
- Canella A, Welker AM, Yoo JY, Xu J, Abas FS, Kesanakurti D, Nagarajan P, Beattie CE, Sulman EP, Liu J, Gumin J, Lang FF, Gurcan MN, Kaur B, Sampath D and Puduvali VK (2017). Efficacy of Onalespib, a Long-Acting Second-Generation HSP90 Inhibitor, as a Single Agent and in Combination with Temozolomide against Malignant Gliomas. *Clin Cancer Res* 23(20), 6215-6226
- Li T, Wang Z, Hou YF and Li YY (2017). Pim-3 Regulates Stemness of Pancreatic Cancer Cells via Activating STAT3 Signaling Pathway. *J Cancer* 8(9), 1530-1541
- Baba Y, Tamura T, Satoh Y, Gotou M, Sawada H, Ebara S, Shibuya K, Soeda J and Nakamura K (2017). Pantumumab interaction with TAS-102 leads to combinatorial anticancer effects via blocking of EGFR-mediated tumor response to trifluridine. *Mol Oncol* 11(8), 1065-1077
- Kessel D (2017). Subcellular Targeting as a Determinant of the Efficacy of Photodynamic Therapy. *Photochem Photobiol* 93(2), 609-612
- Murai S, Ando A, Ebara S, Hirayama M, Satomi Y and Hara T (2017). Inhibition of malic enzyme 1 disrupts cellular metabolism and leads to vulnerability in cancer cells in glucose-restricted conditions. *Oncogenesis* 6(5), e329
- Philip CA, Laskov I, Beauchamp MC, Marques M, Amin O, Bitharas J, Kessou R, Kogan L, Baloch T, Gottlieb WH and Yasmeen A (2017). Inhibition of PI3K-AKT-mTOR pathway sensitizes endometrial cancer cell lines to PARP inhibitors. *BMC Cancer* 17(1), 638
- Shan W, Jiang Y, Yu H, Huang Q, Liu L, Guo X, Li L, Mi Q, Zhang K and Yang Z (2017). HDAC2 overexpression correlates with aggressive clinicopathological features and DNA-damage response pathway of breast cancer. *Am J Cancer Res* 7(5), 1213-1226
- Ha YJ, Tak KH, Kim CW, Roh S1, Choi EK, Cho DH, Kim JH, Kim SK, Kim SY, Kim YS and Kim JC (2017). PSMB8 as a Candidate Marker of Responsiveness to Preoperative Radiation Therapy in Rectal Cancer Patients. *Int J Radiat Oncol Biol Phys* 98(5), 1164-1173
- Feng F, Cheng Q, Yang L, Zhang D, Ji S, Zhang Q, Lin Y, Li F, Xiong L, Liu C and Jiang X (2017). Guidance to rational use of pharmaceuticals in gallbladder sarcomatoid carcinoma using patient-derived cancer cells and whole exome sequencing. *Oncotarget* 8(3), 5349-5360
- Nickson CM, Moori P, Carter RJ, Rubbi CP and Parsons JL (2017). Misregulation of DNA damage repair pathways in HPV-positive head and neck squamous cell carcinoma contributes to cellular radiosensitivity. *Oncotarget* 8(18), 29963-29975
- Walko G, Woodhouse S, Pisco AO, Rognoni E, Liakath-Ali K, Lichtenberger BM, Mishra A, Telesman SB, Viswanathan P, Logtenberg M, Renz LM, Donati G, Quist SR and Watt FM (2017). A genome-wide screen identifies YAP/WBP2 interplay conferring growth advantage on human epidermal stem cells. *Nat Commun* 8:14744
- Hilmi K, Jangal M, Marques M, Zhao T, Saad A, Zhang C, Luo VM, Syme A, Rejon C, Yu Z, Krum A, Fabian MR, Richard S, Alaoui-Jamali M, Orthwein A, McCaffrey L and Witcher M (2017). CTCF facilitates DNA double-strand break repair by enhancing homologous recombination repair. *Sci Adv* 3(5), e1601898
- Gupta A, Anjomani-Virmouni S, Koundouros N, Dimitriadi M, Choo-Wing R, Valle A, Zheng Y, Chiu YH, Agnihotri S, Zadeh G, Asara JM, Anastasiou D, Arends MJ, Cantley LC and Pouligiannis G (2017). PARK2 Depletion Connects Energy and Oxidative Stress to PI3K/Akt Activation via PTEN S-Nitrosylation. *Mol Cell* 65(6), 999-1013
- Ondracek J, Fadrus P, Sana J, Besse A, Loja T, Vecera M, Radova L, Smrcka M, Slampa P and Slaby O (2017). Global MicroRNA Expression Profiling Identifies Unique MicroRNA Pattern of Radioresistant Glioblastoma Cells. *Anticancer Res* 37(3), 1099-1104
- Thomas JD, Longen CG, Oyer HM, Chen N, Maher CM, Salvino JM, Kania B, Anderson KN, Ostrander WF, Knudsen KE and Kim FJ (2017). Sigma 1 Targeting to Suppress Aberrant Androgen Receptor Signaling in Prostate Cancer. *Cancer Res* 77(9), 2439-2452
- Dillon MT, Barker HE, Pedersen M, Hafsi H, Bhide SA, Newbold KL, Nutting CM, McLaughlin M and Harrington KJ (2017). Radiosensitization by the ATR Inhibitor AZD6738 through Generation of Acentric Micronuclei. *Mol Cancer Ther* 16(1), 25-34
- Edmonds MJ, Carter RJ, Nickson CM, Williams SC and Parsons JL (2017). Ubiquitylation-dependent regulation of NEIL1 by Mule and TRIM26 is required for the cellular DNA damage response. *Nucleic Acids Research* 45(2), 726-738
- Hou Z, Gattoc L, O'Connor C, Yang S, Wallace-Povirk A, George C, Orr S, Polin L, White K, Kushner J, Morris TR, Gangjee A and Matherly LH (2017). Dual targeting of epithelial ovarian cancer via folate receptor α and the proton-coupled folate transporter with 6-substituted pyrrolo[2,3-d]pyrimidine antifolates. *Mol Cancer Ther* 16(5), 819-830
- Kessel D (2017) Sequential vs. simultaneous photokilling by mitochondrial and lysosomal photodamage. *Proc SPIE 10047, Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic Therapy XXVI, 1004702 (February 8, 2017); doi:10.1117/12.2251207*
- Hanker AB, Brewer MR, Sheehan JH, Koch JP, Sliwoski GR, Nagy R, Lanman R, Berger MF, Hyman DM, Solit DB, He J, Miller V, Cutler RE Jr, Lalani AS, Cross D, Lovly CM, Meiler J and Arteaga CL (2017). An Acquired HER2/T7981 Gatekeeper Mutation Induces Resistance to Neratinib in a Patient with HER2 Mutant-Driven Breast Cancer. *Cancer Discov* 7(6), 575-585
- Sharma A and Capobianco E (2017). Immuno-Oncology Integrative Networks: Elucidating the Influences of Osteosarcoma Phenotypes. *Cancer Inform* 16:1176935117721691
- Khan S, Oosterhuis K, Wunderlich K, Bunick EM, Bhaggoo M, Boedhoe S, Karia S, Steenbergen RDM, Bosch L, Serroyen J, Janssen S, Schuitemaker H, Vellinga J, Schepel G, Zahn R and Custers J (2017). Development of a replication-deficient adenoviral vector-based vaccine candidate for the interception of HPV16- and HPV18-induced infections and disease. *Int J* 141(2), 393-404
- Starchenko A, Graves-Deal R, Yang YP, Li C, Zent R, Singh B and Coffey RJ (2017). Clustering of integrin $\alpha 5$ at the lateral membrane restores epithelial polarity in invasive colorectal cancer cells. *Mol Biol Cell* 28(10), 1288-1300
- Tian L, Goldstein A, Wang H, Ching Lo H, Sun Kim I, Welte T, Sheng K, Dobrolecki LE, Zhang X, Putluri N, Phung TL, Mani SA, Stossi F, Sreekumar A, Mancini MA, Decker WK, Zong C, Lewis MT and Zhang XH (2017). Mutual regulation of tumour vessel normalization and immunostimulatory reprogramming. *Nature* 544(7649), 250-254
- Ghosh M, Landis MD and Chang JC (2016). Antitumor activity of Cetuximab in combination with ixabepilone on triple negative breast cancer stem cells. *Breast Cancer Research* 18:6
- Ashton TM, Fokas E, Kunz-Schughart LA, Folkes LK, Anbalagan S, Huether M, Kelly CJ, Pirovano G, Buffa FM, Hammond EM, Stratford M, Muschel RJ, Higgins GS, McKenna WG (2016). The anti-metastatic atovaquone increases radiosensitivity by alleviating tumour hypoxia. *Nat Commun* 7:12308
- Welte T, Kim IS, Tian L, Gao X, Wang H, Li J, Holdman XB, Herschkowitz JL, Pond A, Xie G, Kurley S, Nguyen T, Liao L, Dobrolecki LE, Pang L, Mo Q, Edwards DP, Huang S, Xin L, Xu J, Li Y, Lewis MT, Wang T, Westbrook TF, Rosen JM and Zhang XH (2016). Oncogenic mTOR signalling recruits myeloid-derived suppressor cells to promote tumour initiation. *Nat Cell Biol* 18(6), 632-44
- Behnan J, Grieg Z, Joel M, Ramsness I and Stangeland B (2016). Gene knockdown of CENPA reduces sphere forming ability and stemness of glioblastoma initiating cells. *Neuroepigenetics* 7 (2016) 6-18
- Thakkar A, Wang B, Picon-Ruiz M, Buchwald P and Ince TA (2016). Vitamin D and androgen receptor-targeted therapy for triple-negative breast cancer. *Breast Cancer Res Treat* 157(1), 77-90
- Tanei T, Choi DS, Rodriguez AA, Liang DH, Dobrolecki L, Ghosh M, Landis MD and Chang JC (2016). Antitumor activity of Cetuximab in combination with ixabepilone on triple negative breast cancer stem cells. *Breast Cancer Res* 18(1), 6
- Smith DL, Debeb BG, Thames HD and Woodward WA (2016). Computational Modeling of Micrometastatic Breast Cancer Radiation Dose Response. *Int J Radiat Oncol Biol Phys* 96(1), 179-87
- Balko JM, Schwarz LJ, Luo N, Estrada MV, Giltman JM, Dávila-González D, Wang K, Sánchez V, Dean PT, Combs SE, Hicks D, Pinto JA, Landis MD, Doimi FD, Yelensky R, Miller VA, Stephens PJ, Rimm DL, Gómez H, Chang JC, Sanders ME, Cook RS and Arteaga CL (2016). Triple-negative breast cancers with amplification of JAK2 at the 9p24 locus demonstrate JAK2-specific dependence. *Sci Transl Med* 8(334), 334ra53
- Bhola NE, Jansen VM, Koch JP, Li H, Formisano L, Williams JA, Grandis JR and Arteaga CL (2016). Treatment of Triple-Negative Breast Cancer with TORC1/2 Inhibitors Sustains a Drug-Resistant and Notch-Dependent Cancer Stem Cell Population. *Cancer Res* 76(2), 440-52
- Kierulf-Vieira KS, Sandberg CJ, Grieg Z, Günther CC, Langmoen IA and Vik-Mo EO (2016). Wnt inhibition is dysregulated in gliomas and its re-establishment inhibits proliferation and tumor sphere formation. *Exp Cell Res* 340(1), 53-61
- Speyer CL, Nassar MA, Hachem AH, Bukhsh MA, Jafry WS, Khansa RM and Gorski DH (2016). Riluzole mediates anti-tumor properties in breast cancer cells independent of metabotropic glutamate receptor-1. *Breast Cancer Res Treat* 157(2), 217-28
- Gonzalez-Guerrico AM, Espinoza I, Schroeder B, Park CH, Kvp CM, Khurana A, Corominas-Faja B, Cuyàs E, Alarcón T, Kleer C, Menendez J and Lupu R (2016). Suppression of endogenous lipogenesis induces reversion of the malignant phenotype and normalized differentiation in breast cancer. *Oncotarget* 7(44), 71151-71168
- Zhang WK, Chin TM, Yang H, Nga ME, Lunny DP, Lim EK, Sun LL, Pang YH, Leow YN, Malusay SR, Lim PX, Lee JZ, Tan BJ, Shyh-Chang N, Lim EH, Lim WT, Tan DS, Tan EH, Tai BC, Soo RA, Tam WL and Lim B (2016). Tumour-initiating cell-specific miR-1246 and miR-1290 expression converge to promote non-small cell lung cancer progression. *Nat Commun* 7:11702
- Keller KC, Ding H, Tieu R, Sparks NR, Ehnes DD and zur Nieden NI (2016). Wnt5a Supports Osteogenic Lineage Decisions in Embryonic Stem Cells. *Stem Cells Dev* 25(13), 1020-32
- Shingu T, Holmes L, Henry V, Wang Q, Latha K, Gururaj AE, Gibson LA, Doucette T, Lang F, Rao G, Yuan L, Sulman EP, Farrell NP, Priebe W, Hess KR, Wang YA, Hu J and Böglöer O (2016). Suppression of RAF/MEK or PI3K synergizes cytotoxicity of receptor tyrosine kinase inhibitors in glioma tumor-initiating cells. *J Transl Med* 14:46
- Zhang Y, Cabarcas SM, Zheng M, Qi J, Sun L, Mathews LA, Zhang X, Lin H and Farrar WL (2016). Cryptotanshinone targets tumor-initiating cells through down-regulation of stemness genes expression. *Oncol Lett* 11(6), 3803-3812
- Forootan FS, Forootan SS, Gou X, Yang J, Liu B, Chen D, Al Fayi MS, Al-Jameel W, Rudland PS, Hussain SA and Ke Y (2016). Fatty acid activated PPAR γ promotes tumorigenicity of prostate cancer cells by up regulating VEGF via PPAR responsive elements of the promoter. *Oncotarget* 7(8), 9322-39

- Saud SM, Li W, Gray Z, Matter MS, Colburn NH, Young MR and Kim YS (2016). Diallyl Disulfide (DADS), a Constituent of Garlic, Inactivates NF- κ B and Prevents Colitis-Induced Colorectal Cancer by Inhibiting GSK-3 β . *Cancer Prev Res (Phila)* 9(7), 607-15
- Andrianifahanana M, Hernandez DM, Yin X, Kang JH, Jung MY, Wang Y, Yi ES, Roden AC, Limper AH and Leaf EB (2016). Probiotic up-regulation of glucose transporter 1 by TGF- β involves activation of MEK and mammalian target of rapamycin complex 2 pathways. *FASEB J* 30(11), 3733-3744
- Liberante FG, Pouryahya T, McMullin MF, Zhang SD and Mills KI (2016). Identification and validation of the dopamine agonist bromocriptine as a novel therapy for high-risk myelodysplastic syndromes and secondary acute myeloid leukemia. *Oncotarget* 7(6), 6609-19
- Thorenoor N, Faltejškova-Vychytilova P, Hombach S, Milcochova J, Kretz M, Svoboda M and Slaby O (2016). Long non-coding RNA ZFAS1 interacts with CDK1 and is involved in p53-dependent cell cycle control and apoptosis in colorectal cancer. *Oncotarget* 7(1), 622-37
- Ichikawa K, Miyano SW, Adachi Y, Matsuki M, Okamoto K, et al. (2016). Lenvatinib Suppresses Angiogenesis through the Inhibition of both the VEGFR and FGFR Signaling Pathways. *Glob J Cancer Ther* 2(1), 019-025.
- Matschke J, Rifkin H, Klein D, Handrick R, Lüdemann L, Metzén E, Shlomi T, Stuschke M and Jendrossek V (2016). Targeted inhibition of glutamine-dependent glutathione metabolism overcomes death resistance induced by chronic cycling hypoxia. *Antioxid Redox Signal* 25(2), 89-10
- Manton CA, Johnson B, Singh M, Bailey CP, Bouchier-Hayes L and Chandra J (2016). Induction of cell death by the novel proteasome inhibitor marizomib in glioblastoma in vitro and in vivo. *Sci Rep* 6, 18953.
- Park JH, Vithayathil S, Kumar S, Sung PL, Dobrolecki LE, Putluri V, Bhat VB, Bhowmik SK, Gupta V, Arora K, Wu D, Tsouko E, Zhang Y, Maity S, Dongi TR, Graham BH, Frigo DE, Coarfa C, Yotnda P, Putluri N, Sreekumar A, Lewis MT, Creighton CJ, Wong LJ and Kaiparettu BA (2016). Fatty Acid Oxidation-Driven Src Links Mitochondrial Energy Reprogramming and Oncogenic Properties in Triple-Negative Breast Cancer. *Cell Rep* 14(9), 2154-65
- Kessel D and Evans CL (2016). Promotion of Proapoptotic Signals by Lysosomal Photodamage: Mechanistic Aspects and Influence of Autophagy. *Photochem Photobiol* 92(4), 620-3
- Lynam-Lennon N, Bibby BA, Mongan AM, Marignol L, Paxton CN, Geiersbach K, Bronner MP, O'Sullivan J, Reynolds J and Maher SG (2016). Low miR-187 expression promotes resistance to chemoradiation therapy in vitro and correlates with treatment failure in patients with esophageal adenocarcinoma. *Mol Med* 22
- Matschke J, Wiebeck E, Hurst S, Rudner J and Jendrossek V (2016). Role of SGK1 for fatty acid uptake, cell survival and radioresistance of NCI-H460 lung cancer cells exposed to acute or chronic cycling severe hypoxia. *Radiat Oncol* 11:75
- Kim JA, Tan Y, Wang X, Cao X, Veeraraghavan J, Liang Y, Edwards DP, Huang S, Pan X, Li K, Schiff R and Wang XS (2016). Comprehensive functional analysis of the tousel-like kinase 2 frequently amplified in aggressive luminal breast cancers. *Nat Commun* 7:12991
- Matschke J, Wiebeck E, Hurst S, Rudner J and Jendrossek V (2016). Role of SGK1 for fatty acid uptake, cell survival and radioresistance of NCI-H460 lung cancer cells exposed to acute or chronic cycling severe hypoxia. *Radiat Oncol* 11:75
- Speyer CL, Nassar MA, Hachem AH, Bukhsh MA, Jafry WS, Khansa RM and Gorski DH (2016). Riluzole mediates anti-tumor properties in breast cancer cells independent of metabotropic glutamate receptor-1. *Breast Cancer Res Treat* 157(2), 217-28
- Kotschy A et al. (2016). The MCL1 inhibitor S63845 is tolerable and effective in diverse cancer models. *Nature* 538(7626), 477-482
- Chini CC, Espindola-Netto JM, Mondal G, Guerrero AM, Nin V, Escande C, Sola-Penna M, Zhang JS, Billadeau DD, Chini EN (2016). SIRT1-Activating Compounds (STAC) Negatively Regulate Pancreatic Cancer Cell Growth and Viability Through a SIRT1 Lysosomal-Dependent Pathway. *Clin Cancer Res* 22(10), 2496-507
- Minson KA, Smith CC, DeRyckere D, Libbrecht C, Lee-Sherick AB, Huey MG, Lasater EA, Kirkpatrick GD, Stashko MA, Zhang W, Jordan CT, Kireev D, Wang X, Frye SV, Earp HS, Shah NP, Graham DK (2016). The MERTK/FLT3 inhibitor MRX-2843 overcomes resistance-conferring FLT3 mutations in acute myeloid leukemia. *JCI Insight* 1(3), e85630
- Shinde A, Berhane H, Rhiu BH, Kalash R, Xu K, Goff J, Epperly MW, Francicola D, Zhang X, Dixon T, Shields D, Wang H, Wipf P, Parmar K, Guinan E, Kagan V, Tyurin V, Ferris RL, Zhang X, Li S and Greenberger JS (2016). Intra-aortic Mitochondrial-Targeted GS-Nitroxide, JP4-039, Radioprotects Normal Tissue in Tumor-Bearing Radiation-Sensitive Fancd2(-/-) (C57BL/6) Mice. *Radiat Res* 185(2), 134-50
- Sufit A, Lee-Sherick AB, DeRyckere D, Rupji M, Dwivedi B, Varella-Garcia M, Pierce AM, Kowalski J, Wang X, Frye SV, Earp HS, Keating AK and Graham DK (2016). MERTK Inhibition Induces Polyploidy and Promotes Cell Death and Cellular Senescence in Glioblastoma Multiforme. *PLoS One* 11(10), e0165107
- Vermeer DW, Coppock JD, Zeng E, Lee KM, Spanos WC, Onken MD, Uppaluri R, Lee JH and Vermeer PD (2016). Metastatic model of HPV+ oropharyngeal squamous cell carcinoma demonstrates heterogeneity in tumor metastasis. *Oncotarget* 7(17), 24194-207
- Gill MR, Harun SN, Halder S, Boghoozian RA, Ramadan K, Ahmad H and Vallis KA (2016). A ruthenium polypyridyl intercalator stalls DNA replication forks, radiosensitizes human cancer cells and is enhanced by Chk1 inhibition. *Sci Rep* 6, 31973
- Haider S, McIntyre A, van Stiphout RG, Winchester LM, Wigfield S, Harris AL and Buffa FM (2016). Genomic alterations underlie a pan-cancer metabolic shift associated with tumour hypoxia. *Genome Biol* 17(1), 140
- Hahn ER, Singh KB and Singh SV (2016). c-Myc is a novel target of cell cycle arrest by honokiol in prostate cancer cells. *Cell Cycle* 15(17), 2309-20
- den Hollander P, Rawls K, Tsimelzon A, Shepherd J, Mazumdar A, Hill J, Fuqua SA, Chang JC, Osborne CK, Hilsenbeck SG, Mills GB and Brown PH (2016). Phosphatase PTP4A3 Promotes Triple-Negative Breast Cancer Growth and Predicts Poor Patient Survival. *Cancer Res* 76(7), 1942-53
- Uboldi C, Urbán P, Gilliland D, Bajak E, Valsami-Jones E, Ponti J and Rossi F (2016). Role of the crystalline form of titanium dioxide nanoparticles: Rutile, and not anatase, induces toxic effects in Balb/3T3 mouse fibroblasts. *Toxicol In Vitro* 31, 137-45
- Rooney C, Geh C, Williams V, Heuckmann JM, Menon R, Schneider P, Al-Kadhimi K, Dymond M, Smith NR, Baker D, French T, Smith PD, Harrington EA, Barrett JC and Kilgour E (2016). Characterization of FGFR1 Locus in sqNSCLC Reveals a Broad and Heterogeneous Amplicon. *PLoS One* 11(2), e0149628
- S Chini CC, Espindola-Netto JM, Mondal G, Guerrero AM, Nin V, Escande C, Sola-Penna M, Zhang JS, Billadeau DD and Chini EN (2015). IRT1-Activating Compounds (STAC) Negatively Regulate Pancreatic Cancer Cell Growth and Viability Through a SIRT1 Lysosomal-Dependent Pathway. *Clin Cancer Res* 22(10), 2496-507
- Mughal AA, Grieg Z, Skjellegrind H, Fayzullin A, Lamkhannat M, Joel M, Ahmed MS, Murrell W, Vik-Mo EO, Langmoen IA and Stangeland B (2015). Knockdown of NAT12/NAA30 reduces tumorigenic features of glioblastoma-initiating cells. *Mol Cancer* 14:160
- Buchner M, Park E, Geng H, Klemm L, Flach J, Passetué E, Schjervein H, Melnick A, Paietta E, Kopanja D, Raychaudhuri P and Müschen M (2015). Identification of FOXM1 as a therapeutic target in B-cell lineage acute lymphoblastic leukaemia. *Nat Commun* 6:6471
- Park AK, Francis JM, Park WY, Park JO and Cho J (2015). Constitutive asymmetric dimerization drives oncogenic activation of epidermal growth factor receptor carboxyl-terminal deletion mutants. *Oncotarget* 6(11), 8839-50
- Lee J, Galloway R, Grandjean G, Jacob J, Humphries J, Bartholomeusz C, Goodstal S, Lim B, Bartholomeusz G, Ueno NT and Rao A (2015). Comprehensive Two- and Three-Dimensional RNAi Screening Identifies PI3K Inhibition as a Complement to MEK Inhibitor AS703026 for Combination Treatment of Triple-Negative Breast Cancer. *J Cancer* 6(12), 1306-19
- Lee-Sherick AB, Zhang W, Menachof KK, Hill AA, Rineella S, Kirkpatrick G, Page LS, Stashko MA, Jordan CT, Wei Q, Liu J, Zhang D, DeRyckere D, Wang X, Frye S, Earp HS and Graham DK (2015). Efficacy of a Mer and Flt3 tyrosine kinase small molecule inhibitor, UNC1666, in acute myeloid leukemia. *Oncotarget* 6(9), 6722-36
- Zhao J, Zhao D, Poage GM, Mazumdar A, Zhang Y, Hill JL, Hartman ZC, Savage MI, Mills GB and Brown PH (2015). Death-associated protein kinase 1 promotes growth of p53-mutant cancers. *J Clin Invest* 125(7), 2707-20
- Garcia-Rendueles ME, Ricarte-Filho JC, Untch BR, Landa I, Knauf JA, Voza F, Smith VE, Ganly I, Taylor BS, Persaud Y, Oler G, Fang Y, Jhanvar SC, Viale A, Heguy A, Huberman KH, Giancotti F, Gosselin R and Fagin JA (2015). NF2 Loss Promotes Oncogenic RAS-Induced Thyroid Cancers via YAP-Dependent Transactivation of RAS Proteins and Sensitizes Them to MEK Inhibition. *Cancer Discov* 5(11), 1178-93
- Durinck S, Stawiski EW, Pavia-Jiménez A, Modrusan Z, Kapur P, Jaiswal BS, Zhang N, Toffessi-Tcheuyap V, Nguyen TT, Pahuja KB, Chen YJ, Saleem S, Chaudhuri S, Heldens S, Jackson M, Peña-Llopis S, Guillory J, Toy K, Ha C, Harris CJ, Holloman E, Hill HM, Stinson J, Rivers CS, Janakiraman V, Wang W, Kinch LN, Grishin NV, Haverly PM, Chow B, Gehring JS, Reeder J, Pau G, Wu TD, Margulis V, Lotan Y, Sagalowsky A, Pedrosa I, de Sauvage FJ, Brugarolas J and Seshagiri S (2015). Spectrum of diverse genomic alterations define non-clear cell renal carcinoma subtypes. *Nat Genet* 47(1), 13-21
- Zhao XD, Lu YY, Guo H, Xie HH, He LJ, Shen GF, Zhou JF, Li T, Hu SJ, Zhou L, Han YN, Liang SL, Wang X, Wu KC, Shi YQ, Nie YZ and Fan DM (2015). MicroRNA-7/NF- κ B signaling regulatory feedback circuit regulates gastric carcinogenesis. *J Cell Biol* 210(4), 613-27
- Bartholomeusz C, Xie X, Pitner MK, Kondo K, Dadbin A, Lee J, Saso H, Smith PD, Dalby KN and Ueno NT (2015). MEK Inhibitor Selumetinib (AZD6244; ARRY-142886) Prevents Lung Metastasis in a Triple-Negative Breast Cancer Xenograft Model. *Mol Cancer Ther* 14(12), 2773-81
- Kai K, Kondo K, Wang X, Xie X, Pitner MK, Reyes ME, Torres-Adorno AM, Masuda H, Hortobagyi GN, Bartholomeusz C, Saya H, Tripathy D, Sen S and Ueno NT (2015). Antitumor Activity of KW-2450 against Triple-Negative Breast Cancer by Inhibiting Aurora A and B Kinases. *Mol Cancer Ther* 14(12), 2687-99
- Wilson AJ, Fadare O, Beeghly-Fadiel A, Son DS, Liu Q, Zhao S, Saskowski J, Uddin MJ, Daniel C, Crews B, Lehmann BD, Pietenpol JA, Crispens MA, Marnett LJ and Khabele D (2015). Aberrant over-expression of COX-1 intersects multiple pro-tumorigenic pathways in high-grade serous ovarian cancer. *Oncotarget* 6(25), 21353-68
- Joel M, Mughal AA, Grieg Z, Murrell W, Palmero S, Mikkelsen B, Fjerdingstad HB, Sandberg CJ, Behnan J, Glover JC, Langmoen IA and Stangeland B (2015). Targeting PBK/TOPK decreases growth and survival of glioma initiating cells in vitro and attenuates tumor growth in vivo. *Mol Cancer* 14:121
- Madan B, Ke Z, Harmston N, Ho SY, Frois AO, Alam J, Jeyaraj DA, Pendharkar V, Ghosh K, Virshup IH, Manoharan V, Ong EH, Sangthongpitag K, Hill J, Petretto E, Keller TH, Lee MA, Matter A and Virshup DM (2015). Wnt addition of genetically defined cancers reversed by PORCN inhibition. *Oncogene* 35(17), 2197-207
- Gallant JN, Sheehan JH, Shaver TM, Bailey M, Lipson D, Chandramohan R, Red Brewer M, York SJ, Kris MG, Pietenpol JA, Ladanyi M, Miller VA, Ali SM, Meiler J and Lovly CM (2015). EGFR kinase domain duplication (EGFR-KDD) is a novel oncogenic driver in lung cancer that is clinically responsive to afatinib. *Cancer Discov* 5(11), 1155-63
- Grisham RN, Sylvester BE, Won H, McDermott G, DeLair D, Ramirez R, Yao Z, Shen R, Dao F, Bogomolnii F, Makker V, Sala E, Soumerai TE, Hyman DM, Socci ND, Viale A, Gershenson DM, Farley J, Levine DA, Rosen N, Berger MF, Spriggs DR, Aghajanian CA, Solit DB and Iyer G (2015). Extreme Outlier Analysis Identifies Occult Mitogen-Activated Protein Kinase Pathway Mutations in Patients with Low-Grade Serous Ovarian Cancer. *J Clin Oncol* 33(34), 4099-105
- Légaré S, Cavallone L, Mamo A, Chabot C, Sirois I, Magliocco A, Klimowicz A, Tonin PN, Buchanan M, Keilty D, Hassan S, Laperrière D, Mader S, Aleynikova O and Basik M (2015). The estrogen receptor cofactor SPEN functions as a tumor suppressor and candidate biomarker of drug responsiveness in hormone-dependent breast cancers. *Cancer Res* 75(20), 4351-63
- Wilkes MC, Repellin CE, Kang JH, Andrianifahanana M, Yin X and Leaf EB (2015). Sorting Nexin 9 Differentiates Ligand-activated Smad3 from Smad2 for Nuclear Import and TGF β Signaling. *Mol Biol Cell* 26(21), 3879-91
- Stangeland B, Mughal AA, Grieg Z, Sandberg CJ, Joel M, Nygård S, Meling T, Murrell W, Vik Mo EO, Langmoen IA (2015). Combined expression analysis, bioinformatics and targeted proteomics identify new potential therapeutic targets in glioblastoma stem cells. *Oncotarget* 6(28), 26192-215
- Liu H, Liu L, Holowatyj A, Jiang Y and Yang ZQ (2015). Integrated genomic and functional analyses of histone demethylases identify oncogenic KDM2A isoform in breast cancer. *Mol Carcinog* 46(5):977-990
- Wolfe AR, Atkinson RL, Reddy JP, Debeb BG, Larson R, Li L, Masuda H, Brewer T, Atkinson BJ, Brewster A, Ueno NT and Woodward WA (2015). High-density and very-low-density lipoprotein have opposing roles in regulating tumor-initiating cells and sensitivity to radiation in inflammatory breast cancer. *Int J Radiat Oncol Biol Phys* 91(5), 1072-80
- Debeb BG, Smith DL, Li L, Larson R, Xu W and Woodward WA (2015). Differential effect of phosphorylation-defective survivin on radiation response in estrogen receptor-positive and -negative breast cancer. *PLoS One* 10(3), e0120719
- Chen H, Lee J, Kijavini NM, Haley B, Daemen A, Johnson L and Liang Y (2015). Requirement for BUB1/BUBR1 in tumor progression of lung adenocarcinoma. *Genes Cancer* 6(3-4), 106-18
- Li W, Saud SM, Young MR, Colburn NH and Hua B (2015). Cryptotanshinone, a Stat3 inhibitor, suppresses colorectal cancer proliferation and growth in vitro. *Mol Cell Biochem* 406(1-2), 63-73
- Yoshida T, Kim JH, Carver K, Su Y, Weremowicz S, Mulvey L, Yamamoto S, Brennan C, Mei S, Long H, Yao J and Polyak K (2015). CLK2 Is an Oncogenic Kinase and Splicing Regulator in Breast Cancer. *Cancer Res* 75(7), 1516-26
- Vendetti FP, Topper M, Huang P, Dobromilskaya I, Easwaran H, Wrangle J, Baylin SB, Poirier JT and Rudin CM (2015). Evaluation of azacitidine and entinostat as sensitization agents to cytotoxic chemotherapy in preclinical models of non-small cell lung cancer. *Oncotarget* 6(1), 56-70
- Pettersson F, Del Rincon SV, Emond A, Huor B, Ngan E, Ng J, Dobocan MC, Siegel PM and Miller WH Jr (2015). Genetic and pharmacologic inhibition of eIF4E reduces breast cancer cell migration, invasion, and metastasis. *Cancer Res* 75(6), 1102-12
- Ye Q, Holowatyj A, Wu J, Liu H, Zhang L, Suzuki T and Yang ZQ (2015). Genetic alterations of KDM4 subfamily and therapeutic effect of novel demethylase inhibitor in breast cancer. *Am J Cancer Res* 5(4):1519-30

- Scanu T, Spaapen RM, Bakker JM, Pratap CB, Wu L, Hofland I, Broeks A, Shukla VK, Kumar M, Janssen H, Song J-Y, Neeffjes-Borst EA, Riele H te, Holden DW, Nath G and Neeffjes J (2015). Salmonella Manipulation of Host Signaling Pathways Provokes Cellular Transformation Associated with Gallbladder Carcinoma. *Cell Host & Microbe* 17, 1–12
- Wee ZN, Yatim SM, Kohlbauser VK, Feng M, Goh JY, Yi B, Lee PL, Zhang S, Wang PP, Lim E, Tam WL, Cai Y, Ditzel HJ, Hoon DS, Tan EY and Yu Q (2015). IRAK1 is a therapeutic target that drives breast cancer metastasis and resistance to paclitaxel. *Nat Commun*. 6:8746
- Serguienko A, Grad I, Wennerström AB, Meza-Zepeda LA, Thiede B, Stratford EW, Myklebost O and Munthe E (2015). Metabolic reprogramming of metastatic breast cancer and melanoma by let-7a microRNA. *Oncotarget* 6(4), 2451-65
- Nencini A, Pratelli C, Quinn JM, Salerno M, Tunici P, De Robertis A, Valensin S, Mennillo F, Rossi M, Bakker A, Benicchi T, Cappelli F, Turilzzi E, Nibbio M, Caradonna NP, Zanelli U, Andreini M, Magnani M and Yarrone M (2015). Structure-activity relationship and properties optimization of a series of quinoxaline-2,4-diones as inhibitors of the canonical Wnt pathway. *Eur J Med Chem* 95, 526-45
- Granados-Principa S, Liu Y, Guevara ML, Blanco E, Choi DS, Qian W, Patel T, Rodriguez AA, Cusimano J, Weiss HL, Zhao H, Landis MD, Dave B, Gross SS and Chang JC (2015). Inhibition of iNOS as a novel effective targeted therapy against triple-negative breast cancer. *Breast Cancer Res*. 17:25
- Bartholomeusz C, Xie X, Pitner MK, Kondo K, Dabbin A, Lee J, Saso H, Smith PD, Dalby KN and Ueno NT (2015). MEK inhibitor selumetinib (AZD6244; ARRY-142886) prevents lung metastasis in a triple-negative breast cancer xenograft model. *Mol Cancer Ther*. 14(12), 2773-81
- Li S, Payne S, Wang F, Claus P, Su Z, Groth J, Geradts J, de Ridder G, Alvarez R, Marcom PK, Pizzo SV and Bachelder RE (2015). Nuclear basic fibroblast growth factor regulates triple-negative breast cancer chemo-resistance. *Breast Cancer Res*. 17:91
- Hover LD, Young CD, Bholra NE, Wilson AJ, Khabele D, Hong CC, Moses HL and Owens P (2015). Small molecule inhibitor of the bone morphogenetic protein pathway DMH1 reduces ovarian cancer cell growth. *Cancer Lett* 368(1):79-87
- Wang B, Lee CW, Witt A, Thakkar A and Ince TA (2015). Heat shock factor 1 induces cancer stem cell phenotype in breast cancer cell lines. *Breast Cancer Res Treat* 153(1), 57-66
- Amin O, Beauchamp MC, Nader PA, Laskov I, Iqbal S, Philip CA, Yasmeen A and Gotlieb WH (2015). Suppression of Homologous Recombination by insulin-like growth factor-1 inhibition sensitizes cancer cells to PARP inhibitors. *BMC Cancer* 15:817
- French R, Hayward O, Jones S, Yang W and Clarkson R (2015). Cytoplasmic levels of cFLIP determine a broad susceptibility of breast cancer stem/progenitor-like cells to TRAIL. *Mol Cancer* 14, 209
- Hezova R, Kovarikova A, Srovnal J, Zemanova M, Harustiak T, Ehrmann J, Hajduch M, Sachlova M, Svoboda M and Slaby O (2015). MiR-205 functions as a tumor suppressor in adenocarcinoma and an oncogene in squamous cell carcinoma of esophagus. *Tumour Biol* 37(6), 8007-18
- Kessel D and Reiners JJ Jr (2015). Promotion of Proapoptotic Signals by Lysosomal Photodamage. *Photochem Photobiol* 91(4), 931-6
- Ahmed SU, Carruthers R, Gilmour L, Yildirim S, Watts C and Chalmers AJ (2015). Selective Inhibition of Parallel DNA Damage Response Pathways Optimizes Radiosensitization of Glioblastoma Stem-like Cells. *Cancer Res* 75(20), 4416-28
- Boersma V, Moatti N, Segura-Bayona S, Peuscher MH, van der Torre J, Wevers BA, Orthwein A, Durocher D and Jacobs JJ (2015). MAD2L2 controls DNA repair at telomeres and DNA breaks by inhibiting 5' end resection. *Nature* 521(7553), 537-40
- Farcial L et al. (2015). Comprehensive In Vitro Toxicity Testing of a Panel of Representative Oxide Nanomaterials: First Steps towards an Intelligent Testing Strategy. *PLoS One* 10(5), e0121714
- Spratt DE, Evans MJ, Davis BJ, Doran MG, Lee MX, Shah N, Wongvipat J, Carnazza KE, Klee GG, Polkinghorne W, Tindall DJ, Lewis JS and Sawyers CL (2015). Androgen Receptor Upregulation Mediates Radioresistance after Ionizing Radiation. *Cancer Res* 75(22), 4688-96
- Davies BR, Guan N, Logie A, Crafter C, Hanson L, Jacobs V, James N, Dudley P, Jacques K, Ladd B, D'Cruz CM, Zinda M, Lindemann J, Kodaira M, Tamura K and Jenkins EL (2015). Tumors with AKT1E17K mutations are rational targets for single agent or combination therapy with AKT inhibitors. *Mol Cancer Ther*. 14(11), 2441-5
- O'Brien SK, Chen L, Zhong W, Armellino D, Yu J, Loreth C, Follettie M and Damelin M (2015). Breast cancer cells respond differentially to modulation of TGF-β2 signaling after exposure to chemotherapy or hypoxia. *Cancer Res* 75(21):4605-16
- Koumangoye RB, Andl T, Taubenslag KJ, Zilberman ST, Taylor CJ, Loomans HA and Andl (2015). SOX4 interacts with EZH2 and HDAC3 to suppress microRNA-31 in invasive esophageal cancer cells. *Mol Cancer* 14:24
- Cummings CT, Zhang W, Davies KD, Kirkpatrick GD, Zhang D, DeRyckere D, Wang X, Frye SV, Earp HS and Graham DK (2015). Small Molecule Inhibition of MERTK Is Efficacious in Non-Small Cell Lung Cancer Models Independent of Driver Oncogene Status. *Mol Cancer Ther* 14(9), 2014-22
- Randriarimanana T, Chateau A, Favier B, Pinel S and Boura C (2015). Sensitivity of glioma initiating cells to a monoclonal anti-EGFR antibody therapy under hypoxia. *Life Sci* 137, 74-80
- Aarts M, Bajrami I, Herrera-Abreu MT, Elliott R, Brough R, Ashworth A, Lord CJ and Turner NC (2015). Functional Genetic Screen Identifies Increased Sensitivity to WEE1 Inhibition in Cells with Defects in Fanconi Anemia and HR Pathways. *Mol Cancer Ther* 14(4), 865-76
- Bartholomeusz C and Esteve FJ (2015). CD44 expression contributes to trastuzumab resistance in HER2-positive breast cancer cells. *Breast Cancer Res Treat* 151(3), 501-13.
- Bibby BA, Reynolds JV and Maher SG (2015). MicroRNA-330-5p as a Putative Modulator of Neoadjuvant Chemoradiotherapy Sensitivity in Oesophageal Adenocarcinoma. *PLoS One* 10(7), e0134180.
- Boules DR, Arnold ST, Chauhan GB, Blachno KV, Deng N, Chang WC, Jin Q, Huang TH, Hsu JM, Brady SW, Bartholomeusz C, Ladbury JE, Stone S, Yu D, Hung MC and Esteve FJ (2015). HER family kinase domain mutations promote tumor progression and can predict response to treatment in human breast cancer. *Mol Oncol* 9(3), 586-600
- Boerner JL, Nechiporchik N, Mueller KL, Polin L, Heilbrun L, Boerner SA, Zoratti GL, Stark K, LoRusso PM and Burger A (2015). Protein Expression of DNA Damage Repair Proteins Dictates Response to Topoisomerase and PARP Inhibitors in Triple-Negative Breast Cancer. *PLoS One* 10(3), e0119614
- Arcila ME, Drilon A, Sylvester BE, Lovly CM, Borsu L, Reva B, Kris MG, Solit DB and Ladanyi M (2015). MAP2K1 (MEK1) Mutations Define a Distinct Subset of Lung Adenocarcinoma Associated with Smoking. *Clin Cancer Res* 21(8), 1935-43
- Deorukhkar A, Ahuja N, Mercado AL, Diagaradjane P, Raju U, Patel N, Mohindra P, Diep N, Guha S and Krishnan S (2015). Zerubone increases oxidative stress in a thiol-dependent ROS-independent manner to increase DNA damage and sensitize colorectal cancer cells to radiation. *Cancer Med* 4(2), 278-92
- Colbert PL, Vermeer DW, Wiekling BG, Lee JH and Vermeer PD (2015). EphrinB1: novel microtubule associated protein whose expression affects taxane sensitivity. *Oncotarget* 6(2), 953-68
- Naipal KA, Raams A, Bruens ST, Brandsma I, Verkaik NS, Jaspers NG, Hoesjmakers JH, van Leenders GJ, Pothof J, Kanaar R, Boormans J and van Gent DC (2015). Attenuated XPC expression is not associated with impaired DNA repair in bladder cancer. *PLoS One* 10(4), e0126029
- Carruthers R, Ahmed SU, Strathdee K, Gomez-Roman N, Amoah-Buahin E, Watts C and Chalmers AJ (2015). Abrogation of radioresistance in glioblastoma stem-like cells by inhibition of ATM kinase. *Mol Oncol* 9(1), 192-203
- Ha YJ, Kim CW, Roh SA, Cho DH, Park JL, Kim SY, Kim JH, Choi EK, Kim YS and Kim JC (2015). Epigenetic regulation of KLHL34 predictive of pathologic response to preoperative chemoradiation therapy in rectal cancer patients. *Int J Radiat Oncol Biol Phys* 91(3), 650-8
- Guest ST, Kratche ZR, Bollig-Fischer A, Haddad R, Ethier SP (2015). Two members of the TRiC chaperonin complex, CCT2 and TCP1 are essential for survival of breast cancer cells and are linked to driving oncogenes. *Exp Cell Res* 332(2), 223-35
- Pappano WN, Guo J, He Y, Ferguson D, Jagadeeswaran S, Osterling DJ, Gao W, Spence JK, Plushchev M, Sweis RF, Buchanan FG, Michaelides MR, Shoemaker AR, Tse C and Chiang GG (2015). The Histone Methyltransferase Inhibitor A-366 Uncovers a Role for G9a/GLP in the Epigenetics of Leukemia. *PLoS One* 10(7), e0131716
- Goldmacher VS, Audette CA, Guan Y, Sidhom EH, Shah JV, Whiteman KR, and Kovtun YV (2015). High-affinity accumulation of a maytansinoid in cells via weak tubulin interaction. *PLoS One* 2(2), e0117523
- Bajak E, Fabbri M, Ponti J, Gioria S, Ojea-Jiménez I, Collotta A, Mariani V, Gilliland D, Rossi F and Gribaldo L (2015). Changes in Caco-2 cells transcriptome profiles upon exposure to gold nanoparticles. *Toxicol Lett* 233(2), 187-99
- Tiwana GS, Prevo R, Buffa FM, Yu S, Ebner DV, Howarth A, Folkes LK, Budwal B, Chu KY, Durrant L, Muschel RJ, McKenna WG and Higgins GS (2015). Identification of vitamin B1 metabolism as a tumor-specific radiosensitizing pathway using a high-throughput colony formation screen. *Oncotarget* 6(8), 5978-89
- Turner-Ivey B, Guest ST, Irish JC, Kappler CS, Garrett-Mayer E, Wilson RC and Ethier SP (2014). KAT6A, a chromatin modifier from the 8p11-p12 amplicon is a candidate oncogene in luminal breast cancer. *Neoplasia* 16(8), 644-55
- Schwarz LJ, Fox EM, Baiko JM, Garrett JT, Kuba MG, Estrada MV, González-Angulo AM, Mills GB, Red-Brewer M, Mayer IA, Abramson V, Rizzo M, Kelley MC, Meszoely IM and Arteaga CL (2014). LYN-activating mutations abrogate antiestrogen resistance in estrogen receptor-positive breast cancer. *J Clin Invest* 124(12), 5490-502
- Patki M, Gadgeel S, Huang Y, McFall T, Shields AF, Matherly LH, Bepler G and Ratnam M (2014). Glucocorticoid receptor status is a principal determinant of variability in the sensitivity of non-small-cell lung cancer cells to pemetrexed. *J Thorac Oncol* 9(4), 519-26
- Yong JW, Choong ML, Wang S, Wang Y, Lim SQ and Lee MA (2014). Characterization of ductal carcinoma in situ cell lines established from breast tumor of a Singapore Chinese patient. *Cancer Cell Int* 14(1), 94
- Sun Q, Cibas ES, Huang H, Hodgson L and Overholtzer M (2014). Induction of entosis by epithelial cadherin expression. *Cell Res* 24(11), 1288-98
- Zhang B, Zhang B, Chen X, Bae S, Singh K, Washington MK, and Datta PK (2014). Loss of Smad4 in colorectal cancer induces resistance to 5-fluorouracil through activating Akt pathway. *Br J Cancer*. 2014 Feb 18;110(4), 946-57
- Rudraraju B, Droog M, Abdel-Fatah TM, Zwart W, Giannoudis A, Malki MI, Moore D, Patel H, Shaw J, Ellis IO, Chan S, Brooke KN, Nevedomskaya E, Nigro CL, Carroll J, Coombes RC, Bevan C, Ali S and Palmieri C (2014). Phosphorylation of activating transcription factor-2 (ATF-2) within the activation domain is a key determinant of sensitivity to tamoxifen in breast cancer. *Breast Cancer Res Treat* 147(2):295-309
- Lee J, Bartholomeusz C, Mansour O, Humphries J, Hortobagyi GN, Ordentlich P and Ueno NT (2014). A class I histone deacetylase inhibitor, entinostat, enhances lapatinib efficacy in HER2-overexpressing breast cancer cells through FOXO3-mediated Bim1 expression. *Breast Cancer Res Treat* 146(2), 259-72
- Li C, Ma H, Wang Y, Cao Z, Graves-Deal R, Powell AE, Starchenko A, Ayers GD, Washington MK, Kamath V, Desai K, Gerdes MJ, Solnica-Krezel L and Coffey RJ (2014). Excess PLAC8 promotes an unconventional ERK2-dependent EMT in colon cancer. *J Clin Invest* 124(5), 2172-87
- Song W, Ma Y, Wang J, Brantley-Sieders D, Chen J (2014). JNK signaling mediates EPHA2-dependent tumor cell proliferation, motility, and cancer stem cell-like properties in non-small cell lung cancer. *Cancer Res* 74(9), 2444-54
- Choong ML, Yong J, Wang Y and Lee MA (2014). Establishment and characterization of a singaporean chinese lung adenocarcinoma cell line with four copies of the epidermal growth factor receptor gene. *Biores Open Access* 3(4), 176-82
- Lee GY, Haverty PM, Li L, Klijavin NM, Bourgon R, Lee J, Stern H, Modrusan Z, Seshagiri S, Zhang Z, Davis D, Stokoe D, Settlerman J, de Sauvage FJ and Neve RM (2014). Comparative oncogenomics identifies PSMB4 and SHMT2 as potential cancer driver genes. *Cancer Res* 74(11), 3114-26
- Wennerström AB, Lothe IM, Sandhu V, Kure EH, Myklebost O and Munthe E (2014). Generation and characterisation of novel pancreatic adenocarcinoma xenograft models and corresponding primary cell lines. *PLoS One* 9(8), e103873
- Blackmore JK1, Emarkar S, Gu G, Chaubal V, Wang L, Li W and Smith CL (2014). The SMRT Coregulator Enhances Growth of Estrogen Receptor-α-Positive Breast Cancer Cells by Promotion of Cell Cycle Progression and Inhibition of Apoptosis. *Endocrinology* 155(9), 3251-61
- Mannino M, Gomez-Roman N, Hochegger H and Chalmers AJ (2014). Differential sensitivity of Glioma stem cells to Aurora kinase A inhibitors: implications for stem cell mitosis and centrosome dynamics. *Stem Cell Res* 13(1), 135-43
- Chen D, Forootan SS, Gosney JR, Forootan FS and Ke Y (2014). Increased expression of Id1 and Id3 promotes tumorigenicity by enhancing angiogenesis and suppressing apoptosis in small cell lung cancer. *Genes Cancer* 5(5-6), 212-25
- Murphy AJ, Pierce J, de Caestecker C, Ayers GD, Zhao A, Krebs JR, Saito-Diaz VK, Lee E, Perantoni AO, de Caestecker MP and Lovorn HN 3rd (2014). CITED1 confers stemness to Wilms tumor and enhances tumorigenic responses when enriched in the nucleus. *Oncotarget* 5(2), 386-402
- Chini CC, Gonzalez Guerrero A, Nin V, Camacho-Pereira J, Escande C, Barbosa M and Chini EN (2014). Targeting of NAD metabolism in pancreatic cancer cells: potential novel therapy for pancreatic tumors. *Clin Cancer Res* 20(1):120-30
- Balko JM, Giltnane JM, Wang K, Schwarz LJ, Young CD, Cook RS, Owens P, Sanders ME, Kuba MG, Sánchez V, Kurupi R, Moore PD, Pinto JA, Doimi FD, Gómez H, Horiuchi D, Goga A, Lehmann BD, Bauer JA, Pietenpol JA, Ross JS, Palmer GA, Yelensky R, Cronin M, Miller VA, Stephens PJ and Arteaga CL (2014). Molecular profiling of the residual disease of triple-negative breast cancers after neoadjuvant chemotherapy identifies actionable therapeutic targets. *Cancer Discov* 4(2), 232-45
- Jaganathan H, Gage J, Leonard F, Srinivasan S, Souza GR, Dave B and Godin B (2014). Three-dimensional in vitro co-culture model of breast tumor using magnetic levitation. *Sci Rep* 1(4), 6468
- Wei W, Twardy DJ, Zhang M, Zhang X, Landua J, Petrovic I, Bu W, Roarty K, Hilsenbeck SG, Rosen JM and Lewis MT (2014). STAT3 signaling is activated preferentially in tumor-initiating cells in claudin-low models of human breast cancer. *Stem Cells* 32(10), 2571-82
- Arasada RR, Amann JM, Rahman MA, Huppert SS and Carbone DP (2014). EGFR blockade enriches for lung cancer stem-like cells through Notch3-dependent signaling. *Cancer Res*. 74(19):5572-84

- Wei W, Tweardy DJ, Zhang M, Zhang X, Landua J, Petrovic I, Bu W, Roarty K, Hilsenbeck SG, Rosen JM and Lewis MT (2014). STAT3 signaling is activated preferentially in tumor-initiating cells in claudin-low models of human breast cancer. *Stem Cells* 32(10):2571-82
- Jaganathan H, Mitra S, Srinivasan S, Dave B, Godin B (2014). Design and in vitro evaluation of layer by layer siRNA nanovectors targeting breast tumor initiating cells. *PLoS One* 9(4), e91986
- Chen G, Kong J, Tucker-Burden C, Anand M, Rong Y, Rahman F, Moreno CS, Van Meir EG, Hadjipanayis CG, Brat DJ (2014). Human Brat Ortholog TRIM3 Is a Tumor Suppressor That Regulates Asymmetric Cell Division in Glioblastoma. *Cancer Res* 74(16), 4536-48
- Dave B, Granados-Principal S, Zhu R, Benz S, Rabizadeh S, Soon-Shiong P, Yu KD, Shao Z, Li X, Gilcrease M, Lai Z, Chen Y, Huang TH, Shen H, Liu X, Ferrari M, Zhan M, Wong ST, Kumaraswami M, Mittal V, Chen X, Gross SS and Chang JC (2014). Targeting RPL39 and MLF2 reduces tumor initiation and metastasis in breast cancer by inhibiting nitric oxide synthase signaling. *Proc Natl Acad Sci USA* 111(24), 8838-43
- Li W, Hua B, Saud SM, Lin H, Hou W, Matter MS, Jia L, Colburn NH and Young MR (2014). Berberine regulates AMP-activated protein kinase signaling pathways and inhibits colon tumorigenesis in mice. *Mol Carcinog*. 54(10), 1096-109
- Kessel D and Reiners JJ Jr (2014). Enhanced efficacy of photodynamic therapy via a sequential targeting protocol. *Photochem Photobiol* 90(4), 889-95
- Shinde A, Epperly MW, Cao S, Holt D, Goff J, Shields D, Francicola D, Wipf P, Wang H and Greenberger JS (2014). Improved hematopoiesis in GS-nitroxide (JP4-039)-treated mouse long-term bone marrow cultures and radioresistance of derived bone marrow stromal cell lines. *In Vivo* 28(5), 699-708
- Smyth T, Paraiso KH, Hearn K, Rodriguez-Lopez AM, Munck JM, Haarberg HE, Sondak VK, Thompson NT, Azab M, Lyons JF, Smalley KS and Wallis NG (2014). Inhibition of HSP90 by AT13387 Delays the Emergence of Resistance to BRAF Inhibitors and Overcomes Resistance to Dual BRAF and MEK Inhibition in Melanoma Models. *Mol Cancer Ther* 13(12), 2793-804
- Shields L, Vega-Carrascal I, Singleton S, Lyng FM and McClean B (2014). Cell Survival and DNA Damage in Normal Prostate Cells Irradiated Out-of-Field. *Radiat Res* 182(5), 499-506
- Yu WD, Peng YF, Pan HD, Wang L, Li K and Gu J (2014). Phosphatidylinositol 3-kinase CB association with preoperative radiotherapy response in rectal adenocarcinoma. *World J Gastroenterol* 20(43), 16258-67
- Ghiazza M, Alloa E, Oliaro-Bosso S, Viola F, Livraghi S, Rembges D, Camomaccio R, Rossi F, Ponti J and Fenoglio I (2014). Inhibition of the ROS-mediated cytotoxicity and genotoxicity of nano-TiO2 toward human keratinocyte cells by iron doping. *J Nanopart Res* (2014) 16, 2263
- Veeraraghavan J, Tan Y, Cao XX, Kim JA, Wang X, Chammess GC, Maiti SN, Cooper LJ, Edwards DP, Contreras A, Hilsenbeck SG, Chang EC, Schiff R and Wang XS (2014). Recurrent ESR1-CCDC170 rearrangements in an aggressive subset of oestrogen receptor-positive breast cancers. *Nat Commun*. 2014 Aug 7; 5, 4577
- Venmar KT, Carter KJ, Hwang DG, Dozier EA and Fingleton B (2014). IL4 Receptor ILR4a Regulates Metastatic Colonization by Mammary Tumors through Multiple Signaling Pathways. *Cancer Res* 74(16), 4329-40
- Piao HL, Yuan Y, Wang M, Sun Y, Liang H, and Ma L (2014). α -catenin acts as a tumour suppressor in E-cadherin-negative basal-like breast cancer by inhibiting NF- κ B signalling. *Nat Cell Biol*. 16(3), 245-54
- Madden JM, Mueller KL, Bollig-Fischer A, Stemmer P, Mattingly RR and Boerner JL (2014). Abrogating phosphorylation of eIF4B is required for EGFR and mTOR inhibitor synergy in triple-negative breast cancer. *Breast Cancer Res Treat* 147(2), 283-93
- Li S, Kennedy M, Payne S, Kennedy K, Seewaldt VL, Pizzo SV and Bachelder RE (2014). Model of tumor dormancy/recurrence after short-term chemotherapy. *PLoS One* 9(5), e98021
- Singh R, Shankar BS, Sainis KB (2014). TGF- β 1-ROS-ATM-CREB signaling axis in macrophage mediated migration of human breast cancer MCF7 cells. *Cell Signal* 26(7), 1604-15
- Chini CC, Guerrero AM, Nin V, Camacho-Pereira J, Escande C, Barbosa MT, Chini EN (2014). Targeting of NAD metabolism in pancreatic cancer cells: potential novel therapy for pancreatic tumors. *Clin Cancer Res* 20(1), 120-30
- Berhane H, Epperly MW, Goff J, Kalash R, Cao S, Francicola D, Zhang X, Shields D, Houghton F, Wang H, Wipf P, Parmar K and Greenberger JS (2014). Radiologic differences between bone marrow stromal and hematopoietic progenitor cell lines from Fanconi Anemia (Fancd2(-/-) mice. *Radiat Res* 181(1), 76-89
- Berhane H, Shinde A, Kalash R, Xu K, Epperly MW, Goff J, Francicola D, Zhang X, Dixon T, Shields D, Wang H, Wipf P, Li S, Gao X, Greenberger JS (2014). Amelioration of radiation-induced oral cavity mucositis and distant bone marrow suppression in fanconi anemia Fancd2(-/-) (FVB/N) mice by intraoral GS-nitroxide JP4-039. *Radiat Res* 182(1), 35-49
- Kalash R, Berhane H, Yang Y, Epperly MW, Wang H, Dixon T, Rhieu B, Greenberger JS and HRG MS (2014). Improved survival of mice after total body irradiation with 10 MV photon, 2400 MU/min SRU beam. *In Vivo* 28(1), 1-12
- Knobel KH, Pernu BM, Sufit A, Nelson S, Pierce AM and Keating AK (2014). MerTK inhibition is a novel therapeutic approach for glioblastoma multiforme. *Oncotarget* 5(5), 1338-51
- Foulks JM, Carpenter KJ, Luo B, Xu Y, Senina A, Nix R, Chan A, Clifford A, Wilkes M, Vollmer D, Brenning B, Merx S, Lai S, McCullar MV, Ho KK, Albertson DJ, Call LT, Bearss JJ, Tripp S, Liu T, Stephens BJ, Mollard A, Warner SL, Bearss DJ, Kanner SB (2014). A small-molecule inhibitor of PIM kinases as a potential treatment for urothelial carcinomas. *Neoplasia* 16(5), 403-12
- Hahn ER, Karlsson AI, Bonner MY, Arbiser JL, Singh SV (2014). Honokiol inhibits androgen receptor activity in prostate cancer cells. *Prostate* 74(4), 408-20
- Banda M, Speyer CL, Semma SN, Osuala KO, Kounalakis N, Torres Torres KE, Barnard NJ, Kim HJ, Sloane BF, Miller FR, Goydos JS and Gorski DH (2014). Metabotropic glutamate receptor-1 contributes to progression in triple negative breast cancer. *PLoS One* 9(1), e81126
- Balko JM, Schwarz LJ, Bholra NE, Kurupi R, Owen P, Miller TW, Gómez H, Cook RS and Arteaga CL (2013). Activation of MAPK pathways due to DUSP4 loss promotes cancer stem cell-like phenotypes in basal-like breast cancer. *Cancer Res* 73(20), 6346-58
- Garrett JT, Sutton CR, Kurupi R, Bialucha CU, Ettenberg SA, Collins SD, Sheng Q, Wallweber J, Defazio-Eli L and Arteaga CL (2013). Combination of antibody that inhibits ligand-independent HER3 dimerization and a p110 α inhibitor potently blocks PI3K signaling and growth of HER2+ breast cancers. *Cancer Res* 73(19), 6013-23
- Hanker AB, Pfeifferle AD, Balko JM, Kuba MG, Young CD, Sánchez V, Sutton CR, Cheng H, Perou CM, Zhao JJ, Cook RS and Arteaga CL (2013). Mutant PIK3CA accelerates HER2-driven transgenic mammary tumors and induces resistance to combinations of anti-HER2 therapies. *Proc Natl Acad Sci USA* 110(35), 14372-7
- Lauvrak SU, Munthe E, Kresse SH, Stratford EW, Namløs HM, Meza-Zepeda LA and Myklebost O (2013). Functional characterisation of osteosarcoma cell lines and identification of mRNAs and miRNAs associated with aggressive cancer phenotypes. *Br J Cancer* 109(8), 2228-36
- Wang X, Saso H, Iwamoto T, Xia W, Gong Y, Pusztai L, Woodward WA, Reuben JM, Warner SL, Bearss DJ, Hortobagyi GN, Hung MC and Ueno NT (2013). TIG1 Promotes the Development and Progression of Inflammatory Breast Cancer through Activation of Axl Kinase. *Cancer Res* 73(21), 6516-25
- Covington KR, Brusco L, Barone I, Tsimelzon A, Selever J, Corona-Rodriguez A, Brown P, Kumar R, Hilsenbeck SG and Fuqua SA (2013). Metastasis tumor-associated protein 2 enhances metastatic behavior and is associated with poor outcomes in estrogen receptor-negative breast cancer. *Breast Cancer Res Treat* 141(3), 375-384
- Cornelissen B, Waller A, Able S and Vallis KA (2013). Molecular Radiotherapy Using Cleavable Radioimmunoconjugates That Target EGFR and γ H2AX. *Mol Cancer Ther* 12(11), 2472-82
- Andrianifahanana M, Wilkes MC, Gupta SK, Rahimi RA, Repellin CE, Edens M, Wittenberger J, Yin X, Maidl E, Becker J and Leaf EB (2013). Profibrotic TGF β responses require the cooperative action of PDGF and ErbB receptor tyrosine kinases. *FASEB J* 27(11), 4444-54
- Saud SM, Young MR, Jones-Hall YL, Ileva L, Ebuomwan MO, Wise J, Colburn NH, Kim Y Sand Bobe G (2013). Chemopreventive activity of plant flavonoid isorhamnetin in colorectal cancer is mediated by oncogenic Src and β -catenin. *Cancer Res* 73(17), 5473-84
- Gururaj AE, Gibson L, Panchabhai S, Bai M, Manyam G, Lu Y, Latha K, Rojas ML, Hwang Y, Liang S and Bogler O (2013). Access to the nucleus and functional association with c-Myc is required for the full oncogenic potential of Δ EGFR/EGFR Δ . *J Biol Chem* 288(5), 3428-38
- Cabarcas SM, Sun L, Mathews L, Thomas S, Zhang X and Farrar WL (2013). The Differentiation of Pancreatic Tumor-Initiating Cells by Vitronectin Can Be Blocked by Cilengitide. *Pancreas* 42(5), 861-70
- Garrett JT, Sutton CR, Kuba MG, Cook RS and Arteaga CL (2013). Dual blockade of HER2 in HER2-overexpressing tumor cells does not completely eliminate HER3 function. *Clin Cancer Res* 19(3), 610-9
- Beckler MD, Higginbotham JN, Franklin JL, Ham AJ, Halvey PJ, Imasuen IE, Whitwell C, Li M, Liebler DC and Coffey RJ (2013). Proteomic analysis of exosomes from mutant KRAS colon cancer cells identifies intercellular transfer of mutant KRAS. *Mol Cell Proteomics* 12(2), 343-55
- Hartman ZC, Poage GM, den Hollander P, Tsimelzon A, Hill J, Panupinhu N, Zhang Y, Mazumdar A, Hilsenbeck SG, Mills GB and Brown PH (2013). Growth of Triple-Negative Breast Cancer Cells Relies upon Coordinate Autocrine Expression of the Proinflammatory Cytokines IL-6 and IL-8. *Cancer Res*. 73(11), 3470-80
- Sapra P, Dاملin M, Dijoseph J, Marquette K, Geles KG, Golas J, Dougher M, Narayanan B, Giannakou A, Khandke K, Dushin R, Ernstoff E, Lucas J, Leal M, Hu G, O'Donnell CJ, Tchistiaikova L, Abraham RT and Gerber HP (2013). Long-term tumor regression induced by an antibody-drug conjugate that targets 5T4, an oncofetal antigen expressed on tumor-initiating cells. *Mol Cancer Ther* 12(1), 38-47
- Bianco C, Castro NP, Baraty C, Rollman K, Held N, Rangel MC, Karasawa H, Gonzales M, Strizzi L and Salomon DS (2013). Regulation of human Cripto-1 expression by nuclear receptors and DNA promoter methylation in human embryonal and breast cancer cells. *J Cell Physiol* 228(6), 1174-88
- Lee-Sherick AB, Eisenman KM, Sather S, McGranahan A, Armistead PM, McGary CS, Hunsucker SA, Schlegel J, Martinson H, Cannon C, Keating AK, Earp HS, Liang X, Deryckere D and Graham DK (2013). Aberrant Mer receptor tyrosine kinase expression contributes to leukemogenesis in acute myeloid leukemia. *Oncogene* 32(46):5359-68
- Onnis B, Fer N, Rapisarda A, Perez VS and Mellillo G (2013). Autocrine production of IL-11 mediates tumorigenicity in hypoxic cancer cells. *J Clin Invest* 123(4), 1615-29
- Vartanian S, Bentley C, Brauer MJ, Li L, Shirasawa S, Sasazuki T, Kim JS, Haverty P, Stawiski E, Modrusan Z, Waldman T and Stokoe D (2013). Identification of mutant K-Ras-dependent phenotypes using a panel of isogenic cell lines. *J Biol Chem* 288(4), 2403-13
- Krishnan M, Lapiere LA, Knowles BC and Goldenring JR (2013). Rab25 regulates integrin expression in polarized colonic epithelial cells. *Mol Biol Cell* 24(6), 818-31
- Stratford EW, Bostad M, Castro R, Skarpen E, Berg K, Høegset A, Myklebost O and Selbo PK (2013). Photochemical internalization of CD133-targeting immunotoxins efficiently depletes sarcoma cells with stem-like properties and reduces tumorigenicity. *Biochim Biophys Acta* 1830(8), 4235-43
- Sun L, Mathews L, Cabarcas SM, Zhang X, Yang A, Zhang Y, Young MR, Klarmann KD, Keller JR and Farrar WL (2013). Epigenetic Regulation of SOX9 by the NF- κ B Signaling Pathway in Pancreatic Cancer Stem Cells. *Stem Cells*. 31(8), 1454-66
- Barrett CW, Ning W, Chen X, Smith JJ, Washington MK, Hill KE, Coburn LA, Peek RM, Chaturvedi R, Wilson KT, Burk RF and Williams CS (2013). Tumor suppressor function of the plasma glutathione peroxidase gp3x in colitis-associated carcinoma. *Cancer Res* 73(3), 1245-55
- Bentley C, Jurinka SS, Kljavin NM, Vartanian S, Ramani SR, Gonzalez LC, Yu K, Modrusan Z, Du P, Bourgon R, Neve RM and Stokoe D (2013). A requirement for wild-type Ras isoforms in mutant KRas-driven signalling and transformation. *Biochem J* 452(2), 313-20
- De Robertis A, Valensin S, Rossi M, Tunicci P, Verani M, De Rosa A, Giordano C, Varrone M, Nencini A, Pratelli C, Benicchi T, Bakker A, Hill J, Sangthongpitag K, Pendharkar V, Liu B, Ng FM, Then SW, Tai SJ, Cheong SM, He X, Caricasole A and Salerno M (2013). Identification and characterization of a small molecule inhibitor of Wnt signaling in glioblastoma cells. *Mol Cancer Ther*. 12(7), 1180-9
- Brandao LN, Wings A, Christoph S, Sather S, Migdall-Wilson J, Schlegel J, McGranahan A, Gao D, Liang X, Deryckere D and Graham DK (2013). Inhibition of MerTK increases chemosensitivity and decreases oncogenic potential in T-cell acute lymphoblastic leukemia. *Blood Cancer J*. 3:e101
- Xie X, Bartholomeusz C, Ahmed AA, Kazansky A, Diao L, Baggerly KA, Hortobagyi GN and Ueno NT (2013). Bisphosphorylated PEA-15 Sensitizes Ovarian Cancer Cells to Paclitaxel by Impairing the Microtubule-Destabilizing Effect of SCLIP. *Mol Cancer Ther* 12(6), 1099-111
- Duong MT, Akli S, Macalou S, Biernacka A, Debeb BG, Yi M, Hunt KK and Keyomarsi K (2013). Hbo1 is a cyclin E/CDK2 substrate that enriches breast cancer stem-like cells. *Cancer Res* 73(17), 5556-68
- Sandberg CJ, Altschuler G, Jeong J, Strømme KK, Stangeland B, Murrell W, Grasmö-Wendler UH, Myklebost O, Helseth E, Vik-Mo EO, Hide W and Langmoen IA (2013). Comparison of glioma stem cells to neural stem cells from the adult human brain identifies dysregulated Wnt- signaling and a fingerprint associated with clinical outcome. *Exp Cell Res* 319(14), 2230-43
- Chakraborty A, Bholra NE, Sutton C, Ghosh R, Kuba MG, Dave B, Chang JC and Arteaga CL (2013). Trastuzumab-resistant cells rely on a HER2-PI3K-FoxO-survival axis and are sensitive to PI3K inhibitors. *Cancer Res*. 73(3), 1190-200
- Arai K, Sakamoto R, Kubota D and Kondo T (2013). Proteomic approach toward molecular backgrounds of drug resistance of osteosarcoma cells in spheroid culture system. *Proteomics* 13(15), 2351-60
- B Gungor, P Owens and HL Moses (2013). Uncovering the Role of TGF β and BMP in Triple Negative Breast Cancer Stem Cells. *Young Scientists Journal*, 3
- Rolseth V, Krokeide SZ, Kunke D, Neurauder CG, Sanganthar R, Sejersted Y, Hildrestrand GA, Bjørås M and Luna L (2013). Loss of Neil3, the major DNA glycosylase activity for removal of hydantoin in single stranded DNA, reduces cellular proliferation and sensitizes cells to genotoxic stress. *Biochim Biophys Acta* 1833(5), 1157-64
- Schott AF, Landis MD, Dontu G, Griffith KA, Layman RM, Krop I, Paskett LA, Wong H, Dobrolecki LE, Lewis MT, Froehlich AM, Paraniham J, Hayes DF, Wicha MS and Chang JC (2013). Preclinical and clinical studies of gamma secretase inhibitors with docetaxel on human breast tumors. *Clin Cancer Res* 19(6), 1512-24
- Bholra NE, Balko JM, Dugger TC, Kuba MG, Sánchez V, Sanders M, Stanford J, Cook RS and Arteaga CL (2013). TGF- β inhibition enhances chemotherapy action against triple-negative breast cancer. *J Clin Invest* 123(3), 1348-58

- Polkinghorn WR, Parker JS, Lee MX, Kass EM, Spratt DE, Iaquina PJ, Arora VK, Yen WF, Cai L, Zheng D, Carver BS, Chen Y, Watson PA, Shah NP, Fujisawa S, Goglia AG, Gopalan A, Hieronymus H, Wongvipat J, Scardino PT, Zelefsky MJ, Jasin M, Chaudhuri J, Powell SN and Sawyers CL (2013). Androgen receptor signaling regulates DNA repair in prostate cancers. *Cancer Discov* 3(11), 1245-53
- Linger RM, Lee-Sherick AB, DeRyckere D, Cohen RA, Jacobsen KM, McGranahan A, Brandão LN, Winges A, Sawczyn KK, Liang X, Keating AK, Tan AC, Earp HS and Graham DK (2013). Mer receptor tyrosine kinase is a therapeutic target in pre-B-cell acute lymphoblastic leukemia. *Blood*, 122(9), 1599-609
- Gomez-Casal R, Bhattacharya C, Ganesh N, Bailey L, Basse P, Gibson M, Epperly M and Levina V (2013). Non-small cell lung cancer cells survived ionizing radiation treatment display cancer stem cell and epithelial-mesenchymal transition phenotypes. *Mol Cancer* 12(1), 94
- Epperly MW, Chaillel JR, Kalash R, Shaffer B, Goff J, Franicola D, Zhang X, Dixon T, Houghton F, Wang H, Berhane H, Romero C, Kim JH and Greenberger JS (2013). Conditional radioresistance of Tet-inducible manganese superoxide dismutase bone marrow stromal cell lines. *Radiat Res* 180(2), 189-204
- Kaur G, Behrsing H, Parchment RE, Millin MD and Teicher BA (2013). Analyses of the combination of 6-MP and dasatinib in cell culture. *Int J Oncol* 43(1), 13-22
- Krishnan M, Lapierre LA, Knowles BC and Goldenring JR (2013). Rab25 regulates integrin expression in polarized colonic epithelial cells. *Mol Biol Cell* 24(6), 818-31
- Shelton JW, Waxweiler TV, Landry J, Gao H, Xu Y, Wang L, El-Rayes B and Shu HK (2013). In Vitro and In Vivo Enhancement of Chemoradiation Using the Oral PARP Inhibitor ABT-888 in Colorectal Cancer Cells. *Int J Radiat Oncol Biol Phys* 86(3), 469-76
- Kaur G, Behrsing H, Parchment RE, Millin MD and Teicher BA (2013). Analyses of the combination of 6-MP and dasatinib in cell culture. *Int J Oncol* 43(1), 13-22
- Singh B, Bogatcheva G, Washington MK and Coffey RJ (2013). Transformation of polarized epithelial cells by apical mistrafficking of epiregulin. *Proc Natl Acad Sci USA* 110(22), 8960-5
- Fenoglio I, Ponti J, Alloa E, Ghiazza M, Corazzari I, Capomaccio R, Rembges D, Oliaro-Bosso S and Rossi F (2013). Singlet oxygen plays a key role in the toxicity and DNA damage caused by nanometric TiO₂ in human keratinocytes. *Nanoscale* 5(14), 6567-76
- Stratford EW, Castro R, Daffinrud J, Skårn M, Lauvrak S, Munthe E and Myklebost O (2012). Characterization of liposarcoma cell lines for preclinical and biological studies. *Sarcoma* 2012:148614
- Jang JS, Jeon HS, Sun Z, Aubry MC, Tang H, Park CH, Rakhshan F, Schultz DA, Kolbert CP, Lupu R, Park JY, Harris CC, Yang P and Jen J (2012). Increased miR-708 expression in NSCLC and its association with poor survival in lung adenocarcinoma from never smokers. *Clin Cancer Res*. 18(13), 3658-67
- Gupta SK, Oommen S, Aubry MC, Williams BP and Vlahakis NE (2012). Integrin α9β1 promotes malignant tumor growth and metastasis by potentiating epithelial-mesenchymal transition. *Oncogene* 32(2), 141-50.
- Hou J, Wu J, Dombkowski A, Zhang K, Holowatyj A, Boerner JL and Yang ZQ (2012). Genomic amplification and a role in drug-resistance for the KDM5A histone demethylase in breast cancer. *Am J Transl Res* 4(3), 247-256.
- Liu X, Shi Y, Maag DX, Palma JP, Patterson MJ, Ellis PA, Surber BW, Ready DB, Soni NB, Lador US, Xu AJ, Iyer R, Harlan JE, Solomon LR, Donawo CK, Penning TD, Johnson EF and Shoemaker AR (2012). Iniparib nonselectively modifies cysteine-containing proteins in tumor cells and is not a bona fide PARP inhibitor. *Clin Cancer Res* 18(2), 510-23.
- Regnell CE, Hildrestrand GA, Sejersted Y, Medin T, Moldestad O, Rolseth V, Krokeide SZ, Suganthan R, Luna L, Björås M and Bergersen LH (2012). Hippocampal adult neurogenesis is maintained by neil3-dependent repair of oxidative DNA lesions in neural progenitor cells. *Cell Rep* 2(3), 503-10
- Wang C, Mayer JA, Mazumdar A and Brown PH (2012). The rearranged during transfection/papillary thyroid carcinoma tyrosine kinase is an estrogen-dependent gene required for the growth of estrogen receptor positive breast cancer cells. *Breast Cancer Res Treat* 133(2), 487-500
- Hurst NJ, Najj AJ, Ustach CV, Movilla L and Kim HR (2012). Platelet-derived growth factor-C (PDGF-C) activation by serine proteases: implications for breast cancer progression. *Biochem J* 441(3), 909-18
- Wang C, Mayer JA, Mazumdar A and Brown PH (2012). The rearranged during transfection/papillary thyroid carcinoma tyrosine kinase is an estrogen-dependent gene required for the growth of estrogen receptor positive breast cancer cells. *Breast Cancer Res* 133(2), 487-500
- Cho YM, Kim YS, Kang MJ, Farrar WL and Hurt EM (2012). Long-term recovery of irradiated prostate cancer increases cancer stem cells. *Prostate* 72, 1746-1756
- Cabarcas SM, Thomas S, Zhang X, Cherry JM, Sebastian T, Yerramilli S, Lader E, Farrar WL, Hurt EM (2012). The role of upregulated miRNAs and the identification of novel mRNA targets in prostatespheres. *Genomics* 99(2), 108-17
- Mueller KL, Madden JM, Zoratti GL, Kuperwasser C, List K and Boerner JL (2012). Fibroblast-secreted hepatocyte growth factor mediates epidermal growth factor receptor tyrosine kinase inhibitor resistance in triple-negative breast cancers through paracrine activation of Met. *Breast Cancer Res* 14(4), R104
- Cerna D, Li H, Flaherty S, Takebe N, Coleman CN and Yoo SS (2012). Inhibition of nicotinamide phosphoribosyltransferase (NAMPT) activity by small molecule GMX1778 regulates reactive oxygen species (ROS)-mediated cytotoxicity in a p53- and nicotinic acid phosphoribosyltransferase1 (NAPRT1)-dependent manner. *J Biol Chem* 287(26), 22408-17
- Bhattacharya R, Wang E, Dutta SK, Vohra PK, E G, Prakash YS and Mukhopadhyay D (2012). NHERF-2 maintains endothelial homeostasis. *Blood* 119(20), 4798-806
- O'Sullivan RP, Greenberger JS, Goff J, Cao S, Kingston KA, Zhou S, Dixon T, Houghton FD, Epperly MW, Wang H and Glowacki J (2012). Dysregulated in vitro hematopoiesis, radiosensitivity, proliferation, and osteoblastogenesis with marrow from SAMP6 mice. *Exp Hematol* 40(6), 499-509
- Erickson HK, Lewis Phillips GD, Leipold DD, Provenzano CA, Mai E, Johnson HA, Gunter B, Audette CA, Gupta M, Pinkas J and Tibbitts J (2012). The effect of different linkers on target cell catabolism and pharmacokinetics/pharmacodynamics of trastuzumab maytansinoid conjugates. *Mol Cancer Ther* 11(5), 1133-42
- Kessel DH, Price M and Reiners JJ Jr (2012). ATG7 deficiency suppresses apoptosis and cell death induced by lysosomal photodamage. *Autophagy*. 8(9), 1333-41
- Debeb BG, Cohen EN, Boley K, Freiter EM, Li L, Robertson FM, Reuben JM, Cristofanilli M, Buchholz TA and Woodward WA (2012). Pre-clinical studies of Notch signaling inhibitor RO4929097 in inflammatory breast cancer cells. *Breast Cancer Res Treat*. 134(2), 495-510
- Mamo A, Cavallone L, Tuzmen S, Chabot C, Ferrario C, Hassan S, Edgren H, Kallioniemi O, Aleynikova O, Przybytkowski E, Malcolm K, Mousses S, Tonin PN and Basik M (2011). An integrated genomic approach identifies ARID1A as a candidate tumor-suppressor gene in breast cancer. *Oncogene* 31(16), 2090-2100
- Ferruzzi P, Mennillo F, De Rosa A, Giordano C, Rossi M, Benedetti G, Magrini R, Mohr GL, Miragliotta V, Magnoni L, Mori E, Thomas R, Tunicci P and Bakker A (2011). In vitro and in vivo characterization of a novel hedgehog signaling antagonist in human glioblastoma cell lines. *Int J Cancer* 131(2), E33-44
- Selever J, Gu G, Lewis MT, Beyer A, Herynk MH, Covington KR, Tsimelzon A, Dontu G, Provost P, Di Pietro A, Boumendjel A, Albain K, Miele L, Weiss H, Barone I, Ando S, and Fuqua SA (2011). Dicer-mediated upregulation of BCRP confers tamoxifen resistance in human breast cancer cells. *Clin Cancer Res* 17(20), 6510-21
- Lapierre LA, Caldwell CM, Higginbotham JN, Avant KM, Hall J, Beauchamp RD and Goldenring JR (2011). Transformation of rat intestinal epithelial cells by overexpression of Rab25 is microtubule dependent. *Cytoskeleton (Hoboken)* 68(2), 97-111
- Baillo A, Giroux C and Ethier SP (2011). Knock-down of amphiregulin inhibits cellular invasion in inflammatory breast cancer. *J Cell Physiol* 226(10), 2691-701
- Dhawan P, Ahmad R, Chaturvedi R, Smith JJ, Midha R, Mittal MK, Krishnan M, Chen X, Eschrich S, Yeatman TJ, Harris RC, Washington MK, Wilson KT, Beauchamp RD and Singh AB (2011). Claudin-2 expression increases tumorigenicity of colon cancer cells: role of epidermal growth factor receptor activation. *Oncogene* 30(29) 3234-47
- Florez O, Kim SE, Sandoval CP, Haynes CM and Overholzer M (2011). Autophagy machinery mediates macroendocytic processing and entotic cell death by targeting single membranes. *Nat Cell Biol* 13(11), 1335-43
- Koh MY, Lemos R Jr, Liu XP and Powis G (2011). The hypoxia associated factor (HAF) switches cells from HIF-1 α to HIF-2 α dependent signalling promoting stem cell characteristics, aggressive tumor growth and invasion. *Cancer Res*. 71(11), 4015-27
- Crea F, Hurt EM, Mathews LA, Cabarcas SM, Sun L, Marquez VE, Danesi R and Farrar WL (2011). Pharmacologic disruption of Polycomb Repressive Complex 2 inhibits tumorigenicity and tumor progression in prostate cancer. *Mol Cancer* 10(1), 40
- Espinoza I, Liu H, Busby R and Lupu R (2011). CCN1 is a candidate target for zoledronic acid treatment in breast cancer. *Mol Cancer Ther* 10(5), 732-41
- Andrzejak M, Marie Santiago M, and Kessel D (2011). Effects of endosomal photodamage on membrane recycling and endocytosis. *Photochem Photobiol* 87(3), 699-706
- Kessel D (2011). Inhibition of endocytic processes by photodynamic therapy. *Lasers Surg Med* 43(7), 542-7
- Woolston C and Martin S (2011). Analysis of tumor and endothelial cell viability and survival using sulforhodamine B and clonogenic assays. *Methods Mol Biol* 740, 45-56
- Z Kan, BS Jaiswal, J Stinson, V Janakiraman, et al. (2010). Diverse somatic mutation patterns and pathway alterations in human cancers. *Nature* 466, 869-873
- Dong J, Sereno A, Snyder WB, et al. (2010). Stable IgG-like bispecific antibodies directed towards the type I insulin-like growth factor receptor demonstrate enhanced ligand blockade and anti-tumor activity. *J Biol Chem*. 286(6), 4703-17
- Andl CD, McCowan KM, Allison GL, Rustgi AK (2010). Cathepsin B is the driving force of esophageal cell invasion in a fibroblast-dependent manner. *Neoplasia* 12(6), 485-498
- Liu XJ, Wang Y, Benaisa S, Matsuda A, Kantarjian H, Estrov Z and Plunkett W (2010). Homologous recombination as a resistance mechanism to replication-induced double-strand breaks caused by the antileukemia agent CNDAC. *Blood* 116(10), 1737-1746
- Andrianifahanana M, Wilkes MC, Repellin CE, Edens M, Kottom TJ, Rahimi RA and Leaf EB. (2010). ERBB receptor activation is required for profibrotic responses to transforming growth factor beta. *Cancer Research* 70(19), 7421-30
- Chi P, Chen Y, Zhang L, Guo X, Wongvipat J, Shamu T, Fletcher JA, Dewell S, Maki RG, Zheng D, Antonescu CR, Allis CD and Sawyers CL (2010). ETV1 is a lineage survival factor that cooperates with KIT in gastrointestinal stromal tumours. *Nature* 467(7317), 849-53
- Yao S et al. (2010). PRKC-ζ expression promotes the aggressive phenotype of human prostate cancer cells and is a novel target for therapeutic intervention. *Genes & Cancer*, 1(5), 444-464
- Heyerdahl SL, Rozenberg J, Jamtgaard L, Rishi V, Varticovskie L, Akah K, Scudiero D, Shoemaker RH, Karpova TS, Day RN, McNally JG and Vinson C (2010). The arylsulfonamide compound NSC13746 disrupts B-ZIP binding to DNA in living cells. *Eur J Cell Biology* 89 (7), 564-573
- Watson PA, Chen YF, Balbas MD, Wongvipat J, Socci ND, Viale A, Kim K and Sawyers CL (2010). Constitutively active androgen receptor splice variants expressed in castration-resistant prostate cancer require full-length androgen receptor. *Proc Natl Acad Sci USA*. 107(39), 16759-16765
- Robertson FM, Woodward WA, Pickei R, Ye Z, Bornmann W, Pal A, Peng Z, Hall CS, and Cristofanilli M (2010). Suberoylanilide hydroxamic acid blocks self-renewal and homotypic aggregation of inflammatory breast cancer spheroids. *Cancer* 116(S11), 2760 - 2767
- Robertson FM, Ogasawara MA, Ye Z, Chu K, Pickei R, Debeb BG, Woodward WA, Hittelman WN, Cristofanilli M and Barsky SH (2010). Imaging and analysis of 3D tumor spheroids enriched for a cancer stem cell phenotype. *Journal of Biomolecular Screening*. 15(7), 820-9
- Debeb BG, Zhang X, Krishnamurthy S, Gao H, Cohen E, Li L, Rodriguez AA, Landis MD, Lucci A, Ueno NT, Robertson F, Xu W, Lacerda L, Buchholz TA, Cristofanilli M, Reuben JM, Lewis MT and Woodward WA (2010). Characterizing cancer cells with cancer stem cell-like features in 293T human embryonic kidney cells. *Molecular Cancer* 9, 180
- Debeb BG, Xu W, Mok H, Li L, Robertson F, Ueno NT, Reuben J, Lucci A, Cristofanilli M and Woodward WA (2010). Differential radiosensitizing effect of valproic acid in differentiation versus self-renewal promoting culture conditions. *Int J Rad Onc* 76(3), 889-895
- Duhagon MA, Hurt EM, Sotelo-Silveira JR, Zhang X and Farrar WL (2010). Genomic profiling of tumor initiating prostatespheres. *BMC Genomics* 11, 324-340
- Woodward WA, Debeb BG, Xu W and Buchholz TA (2010). Overcoming radiation resistance in inflammatory breast cancer. *Cancer* 116 (S11), 2840-2845
- Jaiswal BS et al. (2009). Somatic mutations in p85α promote tumorigenesis through Class IA PI3K activation. *Cancer Cell* 16, 463-474
- Kajiwara Y, Panchabhai S, Liu DD, Kong M, Lee JJ and Levin VA (2009). Melding a new 3-dimensional agarose colony assay with the E(mack) model to determine the effects of drug combinations on cancer cells. *Technol Cancer Res Treat* 8, 163-176
- Wilkes MC, Repellin CE, Hong M, Bracamonte M, Penheiter SG, Borg J-P, and Leaf EB (2009). Erbin and the NF2 tumor suppressor Merlin cooperatively regulate cell-type-specific activation of PAK2 by TGF-β. *Developmental Cell* 16, 433-444
- Dave B, Lewis M and Chang J (2009). Lentiviral shRNA screen to test the validity of a gene signature of breast cancer stem cells using high throughput mammosphere assays. *Cancer Res* 69 (24 Suppl), Abstract nr 1158
- Kajiwara Y, Panchabhai S and Levin VA (2008). A new preclinical 3-dimensional agarose colony formation assay. *Technol Cancer Res Treat* 7, 329-334

Organoid Counting

Chen S, Giannakou A, Golas J, & Geles KG (2020). Multidimensional Coculture System to Model Lung Squamous Carcinoma Progression. *Journal of Visualized Experiments*, (157). doi:10.3791/60644

Dustin D, Gu G, Beyer AR, Herzog SK, Edwards DG, Lin H, Fuqua SAW (2020). RON signalling promotes therapeutic resistance in ESR1 mutant breast cancer. *British Journal of Cancer*. doi:10.1038/s41416-020-01174-z

Chakraborty G, Armenia J, Mazzu YZ, Nandakumar S, Stopsack KH, Atiq MO, Komura K, Jehane L, Hirani R, Chadalavada K, Yoshikawa Y, Khan NA, Chen Y, Abida W, Mucci LA, Lee G-SM, Nanjangud GJ and Kantoff PW (2020). Significance of BRCA2 and RB1 Co-loss in Aggressive Prostate Cancer Progression. *Clin Cancer Res* 26(8):2047-2064

Chakraborty G, Patail NK, Hirani R, Nandakumar S, MazzuYZ, Yoshikawa Y, Atiq MO, Jehane L, Stopsack KH, Lee G-SM, Abida W, Morris MJ, Mucci LA, Danila DC and Kantoff PW (2020). Attenuation of SRC kinase activity augments PARP inhibitor-mediated synthetic lethality in BRCA2-altered prostate tumors. *Clin Cancer Res*. 2020 Dec 17; *clin can res*.2483.2020. doi: 10.1158/1078-0432.CCR-20-2483. Online ahead of print.

Min J, Vega PN, Engevik AC, Williams JA, Yang Q, Patterson LM, Simmons AJ, R Bliton RJ, Betts JW, Lau KS, Magness ST, Goldenring JR and Choi E (2019). Heterogeneity and dynamics of active Kras-induced dysplastic lineages from mouse corpus stomach. *Nat Commun*. 2019 Dec 5;10(1):5549. doi: 10.1038/s41467-019-13479-6

Young MA, Daly CS, Taylor E, James R, Clarke AR, Reed KR (2018). Subtle Deregulation of the Wnt-Signaling Pathway Through Loss of Apc2 Reduces the Fitness of Intestinal Stem Cells. *Stem Cells* 36(1):114-122

Chen S, Giannakou A, Wyman S, Gruzas J, Golas J, Zhong W, Geles KG (2018). Cancer-associated fibroblasts suppress SOX2-induced dysplasia in a lung squamous cancer coculture. *Proceedings of the National Academy of Sciences*, 201803718. doi:10.1073/pnas.1803718115

Other

Tornillo G, Knowlson C, Kendrick H, Cooke J, Mirza H, Aurrekoetxea-Rodríguez I, ... Smalley MJ (2018). Dual Mechanisms of LYN Kinase Dysregulation Drive Aggressive Behavior in Breast Cancer Cells. *Cell Reports*, 25(13), 3674–3692.e10