



References on the Use of ALZET® Osmotic Pumps in Various Immunodeficient Mouse Strains, including NOG, NSG, NOD/SCID, SCID, and Nude

NOG Mice

Q2329 Zhang Y, Patel S, Abdelouahab H, Wittner M, Willekens C, Shen S et al. CXCR4 inhibitors selectively eliminate CXCR4-expressing human acute myeloid leukemia cells in NOG mouse model. *Cell Death & Disease* 2012; 3(3):U31-U41. >>> AMD 3100; TN140; SC; Mice (NOG); 7 days; Control animals received mp w/ PBS; animal info (NOG -/-); cancer; half-life, pg 2 "Taking into consideration the short in vivo half-life of AMD3100 (3-5 h) and TN140 (9.6 h) the drugs were administered by s.c. pumps implantation during 7 days."

Q0599 Smith MS, Goldman DC, Bailey AS, Pfaffle DL, Kreklywich CN, Spencer DB et al. Granulocyte-Colony Stimulating Factor Reactivates Human Cytomegalovirus in a Latently Infected Humanized Mouse Model. *Cell Host & Microbe* 2010; 8(3):284-291. >>> Colony-stimulating factor, G; AMD 3100; SC; Mice (NOG); 1007D; 7 days; Controls received mp w/ PBS; animal info (7-10 wks old, NOD-scid, IL2Rgc null); immunology.

NSG Mice

Q00172 Maier B, Ogihara T, Trace AP, Tersey SA, Robbins RD, Chakrabarti SK et al. The unique hypusine modification of eIF5A promotes islet beta cell inflammation and dysfunction in mice. *J Clin Invest* 2010; 120(6):2156-2170. >>> GC7; Saline; SC; Mice (NSG); 8 days; Controls received mp w/ vehicle; enzyme inhibitor (deoxyhypusine synthase); animal info (male, C57BL/6J, NOD/SCID/Il2rg-null, 10 weeks old); comparison of IP injections vs. mp; endocrinology; agent also known as N1-guanyl-1,7-diaminoheptane.

Q1299 Rowe J, Greenblatt RJ, Liu DM, Moffat JF. Compounds that target host cell proteins prevent varicella-zoster virus replication in culture, ex vivo, and in SCID-Hu mice. *Antiviral Res* 2010; 86(3):276-285. >>> Phosphonoacetic acid; roscovitine; DMSO; SC; Mice (NSG); 2001; 7 days; Controls received mp w/ vehicle; animal info (SCID-Hu, 7-8 wks old); enzyme inhibitor (cyclin-dependent kinase); 50% DMSO used; bioluminescence (IVIS 200); antiviral.

Q2314 Maude SL, Tasian SK, Vincent T, Hall JW, Sheen C, Roberts KG et al. Targeting JAK1/2 and mTOR in murine xenograft models of Ph-like acute lymphoblastic leukemia. *Blood* 2012; 120(17):3510-3518. >>> Ruxolitinib; Dimethylacetamide; propylene glycol; SC; Mice (NSG); 3-4 weeks; Control animals received mp w/ vehicle; animal info (NOD SCID, nonobese); ruxolitinib also known as INCB018424; stress/adverse effects "One ruxolitinib-treated mouse... experienced a wound dehiscence at the subcutaneous pump surgical site" pg 3512; cancer (leukemia); chemotherapeutic.

Q2663 Salomonson E, Stacer AC, Ehrlich A, Luker KE, Luker GD. Imaging CXCL12-CXCR4 Signaling in Ovarian Cancer Therapy. *PLoS One* 2013; 8(1):U82-U91. >>> AMD 3100; NaCl; SC; Mice (NSG); 2 weeks; Control animals received mp w/ vehicle; animal info (NOD/SCID, IL2r gamma -/-).

NOD/SCID Mice

Q3034 Suzuki N, Yamazaki S, Yamaguchi T, Okabe M, Masaki H, Takaki S et al. Generation of Engraftable Hematopoietic Stem Cells From Induced Pluripotent Stem Cells by Way of Teratoma Formation. MOLECULAR THERAPY 2013; 21(7):1424-1431. >>> Stem cell factor, human recomb.; thrombopoietin; SC; Mice (NOD/SCID); 2 weeks; Animal info (NOD/SCID (male, 5-7 weeks old); KSN/Slc (4-5 weeks old)); immunology; peptides.

Q2594 Welschinger R, Liedtke F, Basnett J, Dela Pena A, Juarez JG, Bradstock KF et al. Plerixafor (AMD3100) induces prolonged mobilization of acute lymphoblastic leukemia cells and increases the proportion of cycling cells in the blood in mice. Exp Hematol 2013; 41(3):293-302. >>> AMD 3100; Mice (NOD/SCID); 3 weeks; Control animals received mp w/ vehicle; animal info (NOD/SCID).

Q2109 Westwell-Roper C, Dai DL, Soukhatcheva G, Potter KJ, van Rooijen N, Ehses JA et al. IL-1 Blockade Attenuates Islet Amyloid Polypeptide-Induced Proinflammatory Cytokine Release and Pancreatic Islet Graft Dysfunction. J Immunol 2011; 187(5):2755-2765. >>> Anakinra; Mice (NOD/SCID); 8 weeks; Controls received mp w/ saline; animal info (11 wks old, NOD/SCID); pumps replaced every 2 weeks; long-term study; immunology.

Q2078 Faleo G, Fotino C, Bocca N, Molano RD, Zahr-Akrawi E, Molina J et al. Prevention of Autoimmune Diabetes and Induction of beta-Cell Proliferation in NOD Mice by Hyperbaric Oxygen Therapy. Diabetes 2012; 61(7):1769-1778. >>> Exenatide; SC; IP; Mice (NOD/SCID); 2 weeks; Controls received mp without hyperbaric oxygen therapy; animal info (NOD/MrkTac, NOD.SCID); hyperbaric oxygen therapy 100% (HOT-100%); diabetes.

Q1832 Dubrovskaya A, Elliott J, Salamone RJ, Telegeev GD, Stakhovskiy AE, Schepotin IB et al. CXCR4 Expression in Prostate Cancer Progenitor Cells. PLoS One 2012; 7(2):U454-U466. >>> AMD 3100; SC; Mice (NOD/SCID); Animal info (NOD.CB17-Prkdc, 5-8 wks old); 0.5 ul/hr pump used; cancer.

Q1234 Mirandola L, Yu YF, Chui K, Jenkins MR, Cobos E, John CM et al. Galectin-3C Inhibits Tumor Growth and Increases the Anticancer Activity of Bortezomib in a Murine Model of Human Multiple Myeloma. PLoS One 2011; 6(7):U173-U186. >>> Galectin-3C; PBS; IP; IV; Mice (NOD/SCID); 2002; 16 days; Controls received mp w/ vehicle; animal info (female, 6 wks old, NOD/SCID); cancer (multiple myeloma); half-life, 3 hours (p. e21811); "Our data suggest that sustained delivery may be preferable (over injections intramuscularly twice daily) for maximal response to treatment" pg e21811; galectin-3C is an N-terminally truncated form of galectin-3.

Q1055 Erlandsson A, Lin CHA, Yu FG, Morshead CM. Immunosuppression promotes endogenous neural stem and progenitor cell migration and tissue regeneration after ischemic injury. Exp Neurol 2011; 230(1):48-57. >>> Epidermal growth factor, recomb. human; erythropoietin; cyclosporine A; CSF/CNS; SC; Mice (NOD/SCID); 1007D; Animal info (male, C57/BL6, 8-10 wks old); pumps replaced after 7 days; ALZET brain infusion kit 3 used.

Q0673 Roland CL, Lynn KD, Toombs JE, Dineen SP, Udugamasooriya DG, Brekken RA. Cytokine Levels Correlate with Immune Cell Infiltration after Anti-VEGF Therapy in Preclinical Mouse Models of Breast Cancer. PLoS One 2009; 4(11):U41-U53. >>> GU81; IP; Mice (NOD/SCID); 1, 3, 4 weeks; Controls received IP IgG injection; animal info (6-8 wks old, female, NOD/SCID, BALB/c); cancer (breast); chemotherapeutic.

Q0606 Kato T, Natsume A, Toda H, Iwamizu H, Sugita T, Hachisu R et al. Efficient delivery of liposome-mediated MGMT-siRNA reinforces the cytotoxicity of temozolomide in GBM-initiating cells.

Gene Therapy 2010; 17(11):1363-1371. >>> RNA, small interfering; Mice (NOD/SCID); 1007D; 1 week; Animal info (6 wks old, female NOD-SCID); MGMT-siRNA/LipoTrust complex; O6-methylguanine- DNA methyltransferase; incorrectly stated 1003D pump; cancer.

P9704 Kaneko S, Mastaglio S, Bondanza A, Ponzoni M, Sanvito F, Aldrighetti L et al. IL-7 and IL-15 allow the generation of suicide gene-modified alloreactive self-renewing central memory human T lymphocytes. Blood 2009; 113(5):1006-1015. >>> Ganciclovir; SC; Mice (NOD/SCID); 7 days; Controls received mp w/PBS; animal info (6-8 wks old, female, NOD/Scid); "ALZET pumps...were implanted subcutaneously to ensure drug release at a constant rate" pg 1008.

P9279 Mueller LUW, Schore RJ, Zheng Y, Thomas EK, Kim MO, Cancelas JA et al. Rac guanosine triphosphatases represent a potential target in AML. LEUKEMIA 2008; 22(9):1803-1806. >>> NSC23766; Mice (NOD/SCID); 28 days; Controls received mp w/ PBS; pumps replaced after 14 days; enzyme inhibitor (Rac GTPas); cancer (acute myeloid leukemia); multiple pumps per animal (2); animal info (NOD/SCID, irradiated).

P8712 Vasvari GP, Dyckhoff G, Kashfi F, Lemke B, Lohr J, Helmke BM et al. Combination of thalidomide and cisplatin in an head and neck squamous cell carcinomas model results in an enhanced antiangiogenic activity in vitro and in vivo. Int J Cancer 2007; 121(8):1697-1704. >>> Cisplatin; IP; Mice (NOD/SCID); 1002; 4 weeks; Controls received no treatment; pumps replaced after 2 weeks; no stress (see pg. 1699); cancer (head/neck squamous cell carcinoma); animal info (female, NOD/SCID, 6-8 wks old, 15-25g).

P8372 Bonig H, Priestley GV, Oehler V, Papayannopoulou T. Hematopoietic progenitor cells (HPC) from mobilized peripheral blood display enhanced migration and marrow homing compared to steady-state bone marrow HPC. Exp Hematol 2007; 35(2):326-334. >>> Colony-stimulating factor, G, recomb. human; SC; Mice (NOD/SCID); 2001; 5 days; Peptides; hematology.

P7936 Bondanza A, Valtolina V, Magnani Z, Ponzoni M, Fleischhauer K, Bonyhadi M et al. Suicide gene therapy of graft-versus-host disease induced by central memory human T lymphocytes. Blood 2006; 107(5):1828-1836. >>> Ganciclovir; SC; Mice (NOD/SCID); 2001; 7 days; Controls received mp w/ saline; animal info (female, NOD/SCID, 6-8 weeks old, GvHD); gene therapy.

P4297 Kreklau EL, Kurpad C, Williams DA, Erickson LC. Prolonged inhibition of O⁶-methylguanine DNA methyltransferase in human tumor cells by O⁶-benzylguanine in vitro and in vivo. J Pharmacol Exp Ther 1999; 291(3):1269-1275. >>> Benzylguanine, O6-; PEG 400; PBS; SC; Mice (NOD/SCID); 1003D; 24 hours; controls received mp w/ vehicle; cancer; "The four groups were comprised of control animals and those implanted s.c. w/ one, two, three Alzet pumps... per mouse" (p. 1270); enzyme inhibitor.

SCID Mice

Q2878 Zhidkov N, De Souza R, Ghassemi AH, Allen C, Piquette-Miller M. Continuous Intraperitoneal Carboplatin Delivery for the Treatment of Late-Stage Ovarian Cancer. MOLECULAR PHARMACEUTICS 2013; 10(9):3315-3322. >>> Carboplatin; PBS; IP; Mice (SCID); 1002; 14 days; Controls received mp w saline; toxicology; animal info (6-8 week old female SCID); comparison of bolus injection vs mp; cancer (ovarian).

Q2462 Uckun FM, Qazi S, Dibirdik I, Myers DE. Rational design of an immunoconjugate for selective knock-down of leukemia-specific E2A-PBX1 fusion gene expression in human Pre-B leukemia. Integrative Biology 2013; 5(1):122-132. >>> Oligonucleotide, alpha CD 19; SC; Mice (SCID); 1002; 14

days; Control animals received mp w/ control oligonucleotide; antisense (E2A-PBX1 with mAb specific for CD 19 receptor); cancer (leukemia).

Q2324 Holmberg C, Quante M, Steele I, Kumar JD, Balabanova S, Duval C et al. Release of TGF beta ig-h3 by gastric myofibroblasts slows tumor growth and is decreased with cancer progression. *Carcinogenesis* 2012; 33(8):1553-1562. >>> Transforming growth factor-beta-induced gene h3; Mice (SCID); Animal info (SCID, 6-8 wks old); cancer.

Q2322 Caceres G, Robey RW, Sokol L, McGraw KL, Clark J, Lawrence NJ et al. HG-829 Is a Potent Noncompetitive Inhibitor of the ATP-Binding Cassette Multidrug Resistance Transporter ABCB1. *Cancer Res* 2012; 72(16):4204-4213. >>> HG-829; Cremophor EL; ethanol; water; IP; Mice (SCID); 2004; Control animals received mp w/ vehicle; animal info (SCID, CB17, 5-7 wks old); 35% cremophor EL, 35% ethanol used; IP catheter used; cancer; HG-829, aka PGE2799041, is a Pgp modulator.

Q2168 Germann M, Wetterwald A, Guzman-Ramirez N, van der Pluijm G, Culig Z, Cecchini MG et al. Stem-Like Cells with Luminal Progenitor Phenotype Survive Castration in Human Prostate Cancer. *Stem Cells* 2012; 30(6):1076-1086. >>> Uridine, bromodeoxy; NaCl; SC; Mice (SCID); 2 weeks; Animal info (male, SCID); 14-day pump used; labeling of CR BM18 cancer cells; cancer (prostate).

Q2074 Ghadimi MP, Young ED, Belousov R, Zhang YQ, Lopez G, Lusby K et al. Survivin Is a Viable Target for the Treatment of Malignant Peripheral Nerve Sheath Tumors. *Clinical Cancer Research* 2012; 18(9):2545-2557. >>> YM155; Saline; SC; Mice (nude/SCID); 1003D; 3 days; Controls received mp w/ vehicle; animal info (SCID, STS26T).

Q2059 Lamkin DM, Sloan EK, Patel AJ, Chiang BS, Pimentel MA, Ma JCY et al. Chronic stress enhances progression of acute lymphoblastic leukemia via beta-adrenergic signaling. *BRAIN BEHAVIOR AND IMMUNITY* 2012; 26(4):635-641. >>> Propranolol hydrochloride; PBS; SC; Mice (SCID); Controls received mp w/ vehicle; animal info (SCID, male, 6-8 wks old).

Q1342 Shimamura T, Fujisawa T, Husain SR, Joshi B, Puri RK. Interleukin 13 Mediates Signal Transduction through Interleukin 13 Receptor alpha 2 in Pancreatic Ductal Adenocarcinoma: Role of IL-13 Pseudomonas Exotoxin in Pancreatic Cancer Therapy. *Clinical Cancer Research* 2010; 16(2):577-586. >>> Interleukin-13; PBS; albumin, human serum; IP; Mice (SCID); 1007D; 7 days; Controls received vehicle injections; animal info (5-6 wks old, male, SCID); comparison of ip injections vs ip mp; cancer (pancreatic); "Compared with (bolus IP) administration of 50 ug/kg IL-13 cytotoxin daily for 7 consecutive days, (ALZET pumps) (infused over 7 days) significantly suppressed tumor growth (P = 0.022) from the beginning of the treatment until the end of the experiment... Compared with the (bolus IP) 50 ug/kg group, a significant prolonged survival time was observed in the (ALZET pump) 50 ug/kg group", pg 581.

Q1332 Soleimani R, Heytens E, Oktay K. Enhancement of Neoangiogenesis and Follicle Survival by Sphingosine-1-Phosphate in Human Ovarian Tissue Xenotransplants. *PLoS One* 2011; 6(4):U2019-U2026. >>> Sphingosine-1-Phosphate; Saline; SC; Mice (SCID); 2001D; 1-4 days; 24 hours; Controls received mp w/ vehicle; animal info (SCID).

Q1208 Liang G, Butterfield C, Liang JW, Birsner A, Folkman J, Shing Y. Beta-35 is a transferrin-derived inhibitor of angiogenesis and tumor growth. *Biochem Biophys Res Commun* 2011; 409(3):562-566. >>> Beta-35; IP; Mice (SCID); 200 hours; Controls received mp w/ vehicle; animal info (male, 24-27 g); pumps replaced every 7 days; cancer (pancreatic, melanoma); Beta-35 is an angiogenesis inhibitor.

Q1143 Jani JP, Arcari J, Bernardo V, Bhattacharya SK, Briere D, Cohen BD et al. PF-03814735, an Orally Bioavailable Small Molecule Aurora Kinase Inhibitor for Cancer Therapy. MOLECULAR CANCER THERAPEUTICS 2010; 9(4):883-894. >>> PF-03814735; Cremophor EL; IP; Mice (nude; SCID); 1007D; 7 days; Controls received mp w/ vehicle; animal info (athymic, nude-Foxn1); cancer; enzyme inhibitor (Aurora kinase).

Q1021 Crowley SD, Song YS, Lin EE, Griffiths R, Kim HS, Ruiz P. Lymphocyte responses exacerbate angiotensin II-dependent hypertension. American Journal of Physiology-Regulatory Integrative and Comparative Physiology 2010; 298(4):R1089-R1097. >>> Angiotensin II; NaCl; saline; SC; Mice (SCID); 2004; 28 days; Controls received mp w/ vehicle; animal info (wt, C3H, C3H SCID, 2-4 mo old); peptides.

Q0871 Fernandez CA, Roy R, Lee S, Yang JA, Panigrahy D, Van Vliet KJ et al. The Anti-angiogenic Peptide, Loop 6, Binds Insulin-like Growth Factor-1 Receptor. J Biol Chem 2010; 285(53):41886-41895. >>> Peptide, loop 6; IP; Mice (SCID); Controls received mp w/ PBS; peptides; enzyme inhibitor (metalloproteinase); cancer; Loop 6, anti-angiogenic peptide, is a smaller domain C-terminal portion of TIMP-2.

Q0858 Tateno C, Kataoka M, Utoh R, Tachibana A, Itamoto T, Asahara T et al. Growth Hormone-Dependent Pathogenesis of Human Hepatic Steatosis in a Novel Mouse Model Bearing a Human Hepatocyte-Repopulated Liver. Endocrinology 2011; 152(4):1479-1491. >>> Growth hormone, human; SC; Mice (transgenic/SCID); 2 weeks; Animal info (uPA/SCID, 20-30 days old, chimeric).

Q0772 Hartman NW, Carpentino JE, LaMonica K, Mor DE, Naegele JR, Grabel L. CXCL12-Mediated Guidance of Migrating Embryonic Stem Cell-Derived Neural Progenitors Transplanted into the Hippocampus. PLoS One 2010; 5(12):U385-U397. >>> AMD 3100; PBS; SC; Mice (SCID); 1004; Controls received mp w/ vehicle; animal info (8-10 wks old, B6.CB17-Prkdc scid/SzJ); tissue adhesive and wound clips used.

***Many more references available for SCID mice**

Nude Mice

Q2986 Kesanakurti D, Chetty C, Maddirela DR, Gujrati M, Rao JS. Essential role of cooperative NF-kappaB and Stat3 recruitment to ICAM-1 intronic consensus elements in the regulation of radiation-induced invasion and migration in glioma. ONCOGENE 2013; 32(43):5144-5155. >>> Oligonucleotide, antisense; plasmid, scrambled vector, pSV; PBS; SC; Mice (nude); 2004; Cancer (glioblastoma); animal info (nu/nu mice).

Q2875 Lin Q, Wang FF, Yang R, Zheng XM, Gao HB, Zhang P. Effect of Chronic Restraint Stress on Human Colorectal Carcinoma Growth in Mice. PLoS One 2013; 8(4):U1127-U1137. >>> Epinephrine; atenolol; ICI 118,551; PBS; ascorbic acid; SC; Mice (nude); 1002; 2 weeks; Controls received mp w PBS, PHE (2mg/kg/d) and PRO (2mg/kg/d), CRS PBS, CRS PHE (2mg/kg/d) and PRO (2mg/kg/d); animal info (nude); cancer (colorectal); dose-response (Fig.4, S5); used microosmotic pumps to reduce stress associated w animal handling, and bypass the effect of quick metabolism that is associated with stress hormones and antagonists; ICI 118,551 is a specific B2-AR antagonist.

Q2847 Sohn YB, Lee J, Cho SY, Kim SJ, Ko AR, Nam MH et al. Improvement of CNS Defects Via Continuous Intrathecal Enzyme Replacement by Osmotic Pump in Mucopolysaccharidosis Type II Mice. AMERICAN JOURNAL OF MEDICAL GENETICS PART A 2013; 161A(5):1036-1043. >>> Iduronate-2-sulfatase; , recomb. human; CSF, artificial; CSF/CNS (intrathecal); Mice (nude); 2004; 3

weeks; Control animals received mp w/ vehicle; animal info (KDS KO, wt, male, female); good methods (pg 1037) "The catheter and osmotic mini-pump were sewed to the muscle to fix the devices, and the opened skin was sewn closed"; ALZET intrathecal catheter used.

Q2692 Ciceroni C, Bonelli M, Mastrantoni E, Niccolini C, Laurenza M, Larocca LM et al. Type-3 metabotropic glutamate receptors regulate chemoresistance in glioma stem cells, and their levels are inversely related to survival in patients with malignant gliomas. CELL DEATH AND DIFFERENTIATION 2013; 20(3):396-407. >>> LY341495; Saline; IP; Mice (nude); 28 days; Control animals received mp w/ vehicle; animal info (male, CD1, 20-22 g).

Q2638 Kesanakurti D, Chetty C, Dinh DH, Gujrati M, Rao JS. Role of MMP-2 in the regulation of IL-6/Stat3 survival signaling via interaction with alpha5beta1 integrin in glioma. ONCOGENE 2013; 32(3):327-340. >>> Plasmid, scrambled vector; RNA, small interfering; Mice (nude); 2004; Animal info (nu/nu, 4-6 wks old, athymic); MMP-2 siRNA.

Q2613 Katz SC, Burga RA, Naheed S, Licata LA, Thorn M, Osgood D et al. Anti-KIT designer T cells for the treatment of gastrointestinal stromal tumor. Journal of Translational Medicine 2013; 11(1):U1-U10. >>> Interleukin-2, human; SC; Mice (nude); Animal info (6 wks old, male, Nu/J); 7-day pumps used.

Q2574 Kogame A, Tagawa Y, Shibata S, Tojo H, Miyamoto M, Tohyama K et al. Pharmacokinetic and Pharmacodynamic Modeling of Hedgehog Inhibitor TAK-441 for the Inhibition of Gli1 messenger RNA Expression and Antitumor Efficacy in Xenografted Tumor Model Mice. Drug Metabolism and Disposition 2013; 41(4):727-734. >>> TAK-441; DMSO; PEG; SC; Mice (nude); 1003D; 3 days; Animal info (female, athymic, nu/nu, Balb/c, 8 wks old, 18-26 g); TAK-441 is a potent, selective hedgehog signaling pathway inhibitor; cancer; pk study.

Q2565 Gogineni VR, Gupta R, Nalla AK, Velpula KK, Rao JS. uPAR and cathepsin B shRNA impedes TGF-beta1-driven proliferation and invasion of meningioma cells in a XIAP-dependent pathway. Cell Death & Disease 2012; 3(1):U20-U29. >>> Plasmid, scrambled vector, pSV; plasmid, pUC; Mice (nude); Control animals received mp w/ scrambled vector; animal info (nu/nu, athymic); pUC is a bicistronic shRNA constructs targeting uPAR and cathepsin B.

Q2564 Mo W, Chen J, Patel A, Zhang L, Chau V, Li YJ et al. CXCR4/CXCL12 Mediate Autocrine Cell-Cycle Progression in NF1-Associated Malignant Peripheral Nerve Sheath Tumors. Cell 2013; 152(5):1077-1090. >>> AMD 3100; SC; Mice (nude); 2 months; Control animals received mp w/ saline; animal info (nu/nu, athymic, female, 16 wks old); long-term study.

Q2563 Kesanakurti D, Chetty C, Maddirela DR, Gujrati M, Rao JS. Functional cooperativity by direct interaction between PAK4 and MMP-2 in the regulation of anoikis resistance, migration and invasion in glioma. Cell Death & Disease 2012; 3(1):U78-U90. >>> Plasmid, scrambled vector; plasmid, PAK4si; Mice (nude); 2004; Animal info (female, nu/nu).

Q2557 Gopinath S, Malla R, Alapati K, Gorantla B, Gujrati M, Dinh DH et al. Cathepsin B and uPAR regulate self-renewal of glioma-initiating cells through GLI-regulated Sox2 and Bmi1 expression. Carcinogenesis 2013; 34(3):550-559. >>> Plasmid, pCU; plasmid, SV; CSF/CNS (intratumoral); Mice (nude); Control animals received mp w/ PBS; animal info (5 wks old, female, nude); infusion rate of 0.25 ul/hr; pCU plasmid is a bicistronic shRNA construct directed against both uPAR and cathepsin B; cancer (glioblastoma).

Q2350 Heger NE, Hall SJ, Sandrof MA, McDonnell EV, Hensley JB, McDowel EN et al. Human Fetal Testis Xenografts Are Resistant to Phthalate-Induced Endocrine Disruption. *Environ Health Perspect* 2012; 120(8):1137-1143. >>> Cytidine, bromodeoxy; SC; Mice (nude); rat (nude); 2001; Wound clips used.

Q2323 Kaneko MK, Kunita A, Abe S, Tsujimoto Y, Fukayama M, Goto K et al. Chimeric anti-podoplanin antibody suppresses tumor metastasis through neutralization and antibody-dependent cellular cytotoxicity. *CANCER SCIENCE* 2012; 103(11):1913-1919. >>> NZ-1; immunoglobulin G, rat; IP; Mice (nude); 2002; Animal info (BALB/c); NZ-1 is a rat antipodoplanin monoclonal antibody.

Q2313 Kim HS, Masko EM, Poulton SL, Kennedy KM, Pizzo SV, Dewhirst MW et al. Carbohydrate restriction and lactate transporter inhibition in a mouse xenograft model of human prostate cancer. *BJU INTERNATIONAL* 2012; 110(7):1062-1069. >>> Cyano-4-hydroxycinnamate, alpha; DMSO; PEG; SC; Mice (nude); 42 days; Control animals received mp w/ vehicle; animal info (athymic, male, 6-8 wks old); cancer (prostate); 9 mm wound clips used; post op. care (triple antibiotic ointment).

Q2296 Broadhead ML, Choong PFM, Dass CR. Efficacy of Continuously Administered PEDF-Derived Synthetic Peptides against Osteosarcoma Growth and Metastasis. *JOURNAL OF BIOMEDICINE AND BIOTECHNOLOGY* 2012; ;(:):U1-U10. >>> StVOrth-2; StVOrth-3; Water, sterile; IP; Mice (nude); 1002; Control animals received mp w/ vehicle; animal info (BALB/c, 5 wks old); peptides; "It is known that the pumps are capable of delivering a steady state quantity of peptides into the abdominal cavity [18, 19], which will eventually be taken into the microvasculature supplying the abdominal region." pg 3; cancer (osteosarcoma).

Q2255 Yoon DH, Shin JS, Jin DH, Hong SW, Jung KA, Kim SM et al. The Survivin Suppressant YM155 Potentiates Chemosensitivity to Gemcitabine in the Human Pancreatic Cancer Cell Line MiaPaCa-2. *Anticancer Res* 2012; 32(5):1681-1688. >>> YM155; Mice (nude); 1003D; 3 days; Animal info (5 wks old, female, BALB/c, nu/nu); infusion for 3-days a week for two weeks; cancer (pancreatic).

Q2252 Yamanaka K, Nakata M, Kaneko N, Fushiki H, Kita A, Nakahara T et al. YM155, a selective survivin suppressant, inhibits tumor spread and prolongs survival in a spontaneous metastatic model of human triple negative breast cancer. *INTERNATIONAL JOURNAL OF ONCOLOGY* 2011; 39(3):569-575. >>> YM155; Saline, diluted; SC; Mice (nude); 1003D; 7 days; Controls received mp w/ vehicle; animal info (MRK nu-1, 5 wks old, female); cancer (breast).

Q2239 Yamanaka K, Nakahara T, Yamauchi T, Kita A, Takeuchi M, Kiyonaga F et al. Antitumor Activity of YM155, a Selective Small-Molecule Survivin Suppressant, Alone and in Combination with Docetaxel in Human Malignant Melanoma Models. *Clinical Cancer Research* 2011; 17(16):5423-5431. >>> YM155; Mice (nude); 1003D; 1007D; 3, 7 days; Animal info (nu/nu); Model 1003D infused 3-days a week for 2 weeks; pumps replaced; cancer (malignant melanoma).

Q2226 Hwang Y, Chumbalkar V, Latha K, Bogler O. Forced Dimerization Increases the Activity of Delta EGFR/EGFRvIII and Enhances Its Oncogenicity. *MOLECULAR CANCER RESEARCH* 2011; 9(9):1199-1208. >>> AP20187; Mice (nude); 2 weeks; Controls received mp w/ vehicle; cancer (glioma, glioblastoma).

***Many more references available for Nude mice**