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| March 01, 2022    | EGFR-Targeted ImmunoPET of UMUC3 Orthotopic Bladder Tumors  | Purpose: Immuno-positron emission tomography (immunoPET) combines the specificity of an antibody with the sensitivity of PET to image dysregulated pat  |
| March 01, 2022    | In vivo assessment of prostate cancer response using quantitative ultrasound characterization of ultrasonic scattering properties   | Background: The study here investigated quantitative ultrasound (QUS) parameters to assess tumour response to ultrasound-stimulated microbubbles (USMB) |
| March 01, 2022    | Investigation of Murine Vaginal Creep Response to Altered Mechanical Loads  | The vagina is a viscoelastic fibromuscular organ that provides support to the pelvic organs.  |
| November 02, 2021 | A 10% Tomato Diet Selectively Reduces Radiation-Induced Damage in TRAMP Mice  | Background: Tomatoes contain carotenoids that have the potential to alter the effects of external beam radiation therapy (EBRT).                        |
| November 02, 2021 | Photoacoustic image-guided corpus cavernosum intratunical injection of adipose stem cell-derived exosomes loaded polydopamine thermosensitive hydrogel for erectile dysfunction treatment | Stem cell-derived exosomes (SC-EXO) was an emerging therapeutic agent in regenerative medicine.   |
| November 02, 2021 | Dual Ultrasound and Photoacoustic Tracking of Magnetically Driven Micromotors: From In Vitro to In Vivo   | The fast evolution of medical micro- and nanorobots in the endeavor to perform non-invasive medical operations in living organisms has boosted the use  |
| August 09, 2021   | Differences in growth and vascularization of ectopic menstrual and non-menstrual endometrial tissue in mouse models of endometriosis  | Differences in growth and vascularization of ectopic menstrual and non-menstrual endometrial tissue in mouse models of endometriosis A. Nenicu†, K.     |
| June 07, 2021     | Development of a bispecific immune engager using a recombinant malaria protein  | As an immune evasion and survival strategy, the Plasmodium falciparum malaria parasite has evolved a protein named VAR2CSA.                             |
| June 04, 2021     | Transmucosal Delivery of Self-Assembling Photosensitizer-Nitazoxanide Nanocomplexes with Fluorinated Chitosan for Instillation-Based Photodynamic Therapy of Orthotopic Bladder Tumors    | Theoretically, on account of improved local bioavailability of photosensitizers and attenuated systemic phototoxicity, intravesical instillation-based  |
| June 04, 2021     | Sequential Release of Pooled siRNAs and Paclitaxel by Aptamer-Functionalized Shell-Core Nanoparticles to Overcome Paclitaxel Resistance of Prostate Cancer                                | Paclitaxel (PTX) is a first-line chemotherapeutic agent to treat prostate cancer (PCa), but a large number of patients acquired drug resistance after   |
| June 04, 2021     | Hollow Mesoporous Silica Nanoparticles Gated by Chitosan-Copper Sulfide Composites as Theranostic Agents for the Treatment of Breast Cancer   | The combination of chemotherapy and photothermal therapy (PTT) into a single formulation has attracted increasing attention as a strategy for enhancin  |
| March 12, 2021    | A multimodal molecular imaging approach targeting urokinase plasminogen activator receptor for the diagnosis, resection and surveillance of urothelial cell carcinoma                     | With a 5-year recurrence rate of 30–78%, urothelial cell carcinoma (UCC) rates amongst the highest of all solid malignancies.                           |
| February 23, 2021 | Bladder urothelium converts bacterial lipopolysaccharide information into neural signaling via an ATP-mediated pathway to enhance the micturition reflex for rapid defense                | When bacteria enter the bladder lumen, a first-stage active defensive mechanism flushes them out.   |
| February 23, 2021 | Testicular quantitative ultrasound: A noninvasive monitoring method for evaluating spermatogenic function in busulfan-induced testicular injury mouse models                              | Busulfan-induced testicular injury mouse models are commonly used for experiments on spermatogonial stem cell transplantation, treatments for azoosper  |
| January 18, 2021  | Systemic and intravesical adoptive cell therapy of tumor-reactive T cells can decrease bladder tumor growth in vivo   | BACKGROUND: The therapeutic armamentarium of bladder cancer has been recently enriched with the introduction of new therapies including immune checkpo  |

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| January 04, 2021   | Bruceantin targets HSP90 to overcome resistance to hormone therapy in castration-resistant prostate cancer  | Rationale: Aberrant androgen receptor (AR) signaling via full-length AR (AR-FL) and constitutively active AR variant 7 (AR-V7) plays a key role in the |
| October 19, 2020   | Testicular blood supply is altered in the 41,XXY* Klinefelter syndrome mouse model  | Hypergonadotropic hypogonadism is a major feature of Klinefelter syndrome (KS), assumed to be caused by testicular hormone resistance.                 |
| October 16, 2020   | Ultrasound-Mediated Delivery of Chemotherapy into the Transgenic Adenocarcinoma of the Mouse Prostate Model   | Ultrasound (US) in combination with microbubbles (MB) has had promising results in improving delivery of chemotherapeutic agents.                      |
| October 16, 2020   | Long-Term Monitoring of Donor Xenogeneic Testis Tissue Grafts and Cell Implants in Recipient Mice Using Ultrasound Biomicroscopy                            | Testis tissue xenografting and testis cell aggregate implantation from various donor species into recipient mice are novel models for the study and ma |
| September 09, 2020 | Construction of Nucleolin-Targeted Lipid Nanobubbles and Contrast-Enhanced Ultrasound Molecular Imaging in Triple-Negative Breast Cancer                    | Purpose: To construct aptamer AS1411-functionalized targeted lipid nanobubbles that could simultaneously target abnormally highly expressed nucleolin  |
| January 01, 2020   | Regeneration of testis tissue after ectopic implantation of porcine testis cell aggregates in mice: Improved consistency of outcomes and in situ monitoring | Ectopic implantation of donor testis cell aggregates in recipient mice results in de novo formation or regeneration of testis tissue and, as such, pro |
| January 01, 2020   | Validation of ultrasound biomicroscopy for the assessment of xenogeneic testis tissue grafts and cell implants in recipient mice                            | Background: Subcutaneous grafting/implantation of neonatal testis tissue/cells from diverse donor species into recipient mice can be used as an in viv |
| January 01, 2020   | High-definition ultrasound characterization of acute cyclophosphamide-induced cystitis in the mouse   | Purpose: To examine associations if any between changes in voiding function, hematuria, and bladder ultrasonography metrics in murine cyclophosphamide |
| January 01, 2020   | Dietary Tomato or Lycopene Do Not Reduce Castration-Resistant Prostate Cancer Progression in a Murine Model   | Background: Dietary tomato products or lycopene protect against prostate carcinogenesis, but their impact on the emergence of castration-resistant pro |
| January 01, 2020   | SUSD2 expression correlates with decreased metastasis and increased survival in a high-grade serous ovarian cancer xenograft murine model                   | The cause of death among high-grade serous ovarian cancer (HGSO) patients involves passive dissemination of cancer cells within the peritoneal cavity  |
| January 01, 2020   | Targeted nanobubbles carrying indocyanine green for ultrasound, photoacoustic and fluorescence imaging of prostate cancer                                   | Objective: To construct prostate-specific membrane antigen (PSMA)-targeting, indocyanine green (ICG)-loaded nanobubbles (NBs) for multimodal (ultrasou |
| September 01, 2019 | Biaxial biomechanical properties of the nonpregnant murine cervix and uterus  | From a biomechanical perspective, female reproductive health is an understudied area of research.  |
| March 01, 2019     | Mild hyperthermia as a localized radiosensitizer for deep-seated tumors: investigation in an orthotopic prostate cancer model in mice                       | OBJECTIVE:: Non-ablative or mild hyperthermia (HT) has been shown in preclinical (and clinical) studies as a localized radiosensitizer that enhances t |
| February 28, 2019  | Use of Antimetastatic SOD3-Mimetic Albumin as a Primer in Triple Negative Breast Cancer   | Of the deaths attributed to cancer, 90% are due to metastasis. Treatments that prevent or cure metastasis remain elusive.                              |
| January 03, 2019   | Abstract 2833: Epithelial cell adhesion molecule (EpCAM) is associated with prostate cancer progression and chemo-/radio-resistance in vitro and in vivo    | Prostate cancer (CaP) is the most common cancer in males in Australia which caused more than 3000 deaths in 2015.                                      |

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| January 01, 2019   | Efficient prostate cancer therapy with tissue-specific homing peptides identified by advanced phage display technology   | Selective targeting of drugs to tumor cells is a key goal in oncology.   |
| January 01, 2019   | Chlorella-gold nanorods hydrogels generating photosynthesis-derived oxygen and mild heat for the treatment of hypoxic breast cancer  | Hypoxic tumors are rarely cured because their low oxygen environment restricts the cytotoxicity of many chemotherapeutics by blocking the production o |
| December 22, 2018  | IL-6-mediated cross-talk between human preadipocytes and ductal carcinoma in situ in breast cancer progression   | Background: The function of preadipocytes in the progression of early stage breast cancer has not been fully elucidated at the molecular level.        |
| December 20, 2018  | Multimodal assessments of Zika virus immune pathophysiological responses in marmosets  | Animal models that recapitulate the human pathophysiology have been developed as useful research tools.  |
| December 19, 2018  | Contrast-enhanced ultrasound for ovary assessment in a murine model: preliminary findings on the protective role of a gonadotropin-releasing hormone analogue from chemotherapy-induced ovarian damage | The prolonged, gonadotoxic effect of chemotherapy can finally lead to infertility in female cancer survivors.  |
| November 22, 2018  | Conditional knockout of SHP2 in ErbB2 transgenic mice or inhibition in HER2-amplified breast cancer cell lines blocks oncogene expression and tumorigenesis  | Overexpression of the human epidermal growth factor receptor 2 (HER2) is the cause of HER2-positive breast cancer (BC).                                |
| November 01, 2018  | Intravesical ATP instillation induces urinary frequency because of activation of bladder afferent nerves without inflammatory changes in mice: A promising model for overactive bladder                | ATP in the suburothelial layer is released from the bladder urothelium by mechanical stimuli.  |
| October 23, 2018   | Radiation treatment monitoring with DCE-US in CWR22 prostate tumor xenografts  | Background Longitudinal monitoring of potential radiotherapy treatment effects can be determined by dynamic contrast-enhanced ultrasound (DCE-US).     |
| October 04, 2018   | Combination Therapy with DETA/NO and Clopidogrel Inhibits Metastasis in Murine Mammary Gland Cancer Models via Improved Vasoprotection   | Vascular endothelial dysfunction and platelet activation play a key role in tumor metastasis, and therefore both of these processes are considered imp |
| September 01, 2018 | Tumor inhibitory effects of intravesical Ganoderma lucidum instillation in the syngeneic orthotopic MB49/C57 bladder cancer mice model   | Ethnopharmacological relevance: Ganoderma lucidum (GL) has been traditionally used in oriental medicine as superior health tonic, and there are numero |
| June 19, 2018      | The oncolytic Adenovirus XVir-N-31 as a novel therapy in muscle-invasive bladder cancer  | Muscle invasive bladder cancer represents approximately 25% of patients diagnosed with bladder cancer and carries a significant risk of death.         |
| April 23, 2018     | Monitoring circulating prostate cancer cells by in vivo flow cytometry assesses androgen deprivation therapy on metastasis   | It remains controversial whether surgical castration prolongs survival rate and improves therapy prospects in patients suffering from prostate cancer. |
| February 23, 2018  | Primary Immunoprevention of Epithelial Ovarian Carcinoma by Vaccination against the Extracellular Domain of Anti-Müllerian Hormone Receptor II   | Epithelial ovarian carcinoma (EOC) is the most prevalent form of ovarian cancer in the United States, representing approximately 85% of all cases and  |
| January 01, 2018   | Intravesical Activation of the Cation Channel TRPV4 Improves Bladder Function in a Rat Model for Detrusor Underactivity  | Background: Improvement of bladder emptying by modulating afferent nerve activity is an attractive therapeutic strategy for detrusor underactivity.    |
| January 01, 2018   | MiR-301a-3p Suppresses Estrogen Signaling by Directly Inhibiting ESR1 in ER $\alpha$ Positive Breast Cancer.   | BACKGROUND/AIMS MiRNA-301a-3p is an oncogenic miRNA whose expression is associated with tumor development, metastases and overall poor prognosis.      |

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| January 01, 2018  | Generation of multiparametric MRI maps by using Gd-labelled- RBCs reveals phenotypes and stages of murine prostate cancer   | Prostate Cancer (PCa) is the second most common and fifth cause of cancer-related mortality in males in Western Countries.                             |
| January 01, 2018  | Selective inhibition of the lactate transporter MCT4 reduces growth of invasive bladder cancer  | Introduction & Objectives: The significance of lactate transporters has been recognized in various cancer types, but their role in urothelial carcinom |
| January 01, 2018  | Ultrasound molecular imaging as a non-invasive companion diagnostic for netrin-1 interference therapy in breast cancer  | In ultrasound molecular imaging (USMI), ligand-functionalized microbubbles (MBs) are used to visualize vascular endothelial targets.                   |
| January 01, 2018  | Facile fabrication of highly photothermal-effective albumin-assisted gold nanoclusters for treating breast cancer   | Gold nanoclusters (AuNCs) have been considered to be a promising candidate for hyperthermia-based anticancer therapy.                                  |
| August 06, 2017   | Radiolabeled pertuzumab for imaging of human epidermal growth factor receptor 2 expression in ovarian cancer  | © 2017, Springer-Verlag Berlin Heidelberg.   |
| May 15, 2017      | A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers  | An effective cancer blood biomarker screening strategy must distinguish aggressive from nonaggressive tumors at an early, intervenable time.           |
| May 04, 2017      | Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry  | Prostate specific membrane antigen (PSMA) targeted microbubbles (MBs) were developed using bioorthogonal chemistry.                                    |
| February 07, 2017 | Antagonists of growth hormone-releasing hormone inhibit proliferation induced by inflammation in prostatic epithelial cells   | The etiology of benign prostatic hyperplasia (BPH) is multifactorial, and chronic inflammation plays a pivotal role in its pathogenesis.               |
| November 09, 2016 | TGFβ Superfamily Members Mediate Androgen Deprivation Therapy-Induced Obese Frailty in Male Mice  | First line treatment for recurrent and metastatic prostate cancer is androgen deprivation therapy (ADT).UseofADThasbeenincreasing infrequencyanddurati |
| November 01, 2016 | Assessment of ischaemia-reperfusion injury in the mice testis by using contrast ultrasound molecular imaging  | Timely diagnosis of ischaemia–reperfusion (IR)-induced injury after testicular torsion may be critical for saving reproductive function.               |
| August 01, 2016   | Nanotherapy silencing the interleukin-8 gene produces regression of prostate cancer by inhibition of angiogenesis   | Interleukin-8 (IL-8) is a proangiogenic cytokine associated with aggressive prostate cancer (CaP).   |
| June 20, 2016     | Preclinical efficacy of bevacizumab with CRLX101, an investigational nanoparticle-drug conjugate, in treatment of metastatic triple-negative breast cancer          | VEGF-pathway targeting antiangiogenic drugs, such as bevacizumab, when combined with chemotherapy have changed clinical practice for the treatment of  |
| February 23, 2016 | In vivo imaging reveals an essential role of vasoconstriction in rupture of the ovarian follicle at ovulation   | Rupture of the ovarian follicle releases the oocyte at ovulation, a timed event that is critical for fertilization.                                    |
| January 01, 2015  | Ultrasound Molecular Imaging of the Breast Cancer Neovasculature using Engineered Fibronectin Scaffold Ligands: A Novel Class of Targeted Contrast Ultrasound Agent | Molecularly-targeted microbubbles (MBs) are increasingly being recognized as promising contrast agents for oncological molecular imaging with ultrasou |
| January 01, 2015  | Efficient production of cynomolgus monkeys with a toolbox of enhanced assisted reproductive technologies  | The efficiency of assisted reproductive technologies (ARTs) in nonhuman primates is low due to no screening criterions for selecting sperm, oocyte, an |
| November 16, 2015 | Earlier detection of breast cancer with ultrasound molecular imaging in a transgenic mouse model.   | While there is an increasing role of ultrasound for breast cancer screening in patients with dense breast, conventional anatomical ultrasound lacks se |

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| September 02, 2015 | Multimodal imaging guided preclinical trials of vascular targeting in prostate cancer   | // James Kalmuk 1, 4 , Margaret Folaron 1, 2 , Julian Buchinger 1, 5 , Roberto Pili 3 , Mukund Seshadri 1, 2 1 Department of Pharmacology and Therapeu |
| June 15, 2015      | Breast Cancer Detection by B7-H3-Targeted Ultrasound Molecular Imaging  | Ultrasound is a complimentary imaging modality to mammography in breast cancer detection in particular in patients with dense breast tissue, but is li |
| January 01, 2015   | Quantitative volumetric imaging of normal, neoplastic and hyperplastic mouse prostate using ultrasound  | Abstract Background: Genetically engineered mouse models are essential to the investigation of the molecular mechanisms underlying human prostate path |
| January 01, 2015   | Comparison of Photoacoustically Derived Hemoglobin and Oxygenation Measurements with Contrast-Enhanced Ultrasound Estimated Vascularity and Immunohistochemical Staining in a Breast Cancer Model | In this preliminary study, we compared two noninvasive techniques for imaging intratumoral physiological conditions to immunohistochemical staining in |
| January 01, 2015   | High-Fat, High-Calorie Diet Enhances Mammary Carcinogenesis and Local Inflammation in MMTV-PyMT Mouse Model of Breast Cancer  | Epidemiological studies provide strong evidence that obesity and the associated adipose tissue inflammation are risk factors for breast cancer; howeve |
| January 01, 2015   | Urine Stasis Predisposes to Urinary Tract Infection by an Opportunistic Uropathogen in the Megabladder (Mgb) Mouse  | PURPOSE: Urinary stasis is a risk factor for recurrent urinary tract infection (UTI).  |
| January 01, 2015   | Quantitative Ultrasound Comparison of MAT and 4T1 Mammary Tumors in Mice and Rats Across Multiple Imaging Systems   | Objectives—Quantitative ultrasound estimates such as the frequency-dependent backscatter coefficient (BSC) have the potential to enhance noninvasive t |
| January 01, 2015   | Novel effects of simvastatin on uterine fibroid tumors: In vitro and patient-derived xenograft mouse model study  | Objective Uterine leiomyomas represent a common gynecologic problem with no satisfactory long-term medical treatment.                                  |
| January 01, 2015   | Ultrasound Molecular Imaging of Vascular Endothelial Growth Factor Receptor 2 Expression for Endometrial Receptivity Evaluation   | Purpose: Ultrasound (US) molecular imaging by examining the expression\nof vascular endothelial growth factor receptor 2 (VEGFR2) on uterus\nvascular  |
| January 01, 2015   | Cell type–specific abundance of 4EBP1 primes prostate cancer sensitivity or resistance to PI3K pathway inhibitors   | The activity of the PI3K-AKT-mTOR signaling pathway is often increased in various cancer types.  |
| August 12, 2014    | In vivo imaging in the rabbit as a model for the study of ovulation-inducing factors.   | The study of factors responsible for eliciting ovulation in rabbits has been hampered by the lack of a suitable method of monitoring the ovaries in vi |
| August 08, 2014    | High-Resolution Ultrasound Allows Percutaneous Initiation and Surveillance of Prostate Cancer in an Orthotopic Murine Model   | Introduction: Prostate cancer xenografts should prefer or- thotopic growth to subcutaneous tumors as the former more closely mimics the natural tumor  |
| July 17, 2014      | Modulation of the tumor microvasculature by phosphoinositide-3 kinase inhibition increases doxorubicin delivery in vivo.  | PURPOSE: Because effective drug delivery is often limited by inadequate vasculature within the tumor, the ability to modulate the tumor microenvironme |
| July 17, 2014      | A peptide conjugate of vitamin E succinate targets breast cancer cells with high ErbB2 expression.  | Overexpression of erbB2 is associated with resistance to apoptosis.  |
| April 01, 2014     | 307 Orthotopic tumorgrafts in nude mice: A new method to study human prostate cancer  | BACKGROUND. In vivo model systems in prostate cancer research that authentically reproduce tumor growth are still sparse.                              |

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| March 01, 2014     | Ultrasound Molecular Imaging in a Human CD276 Expression-Modulated Murine Ovarian Cancer Model.   | PURPOSE: To develop a mouse ovarian cancer model that allows modulating the expression levels of human vascular targets in mouse xenograft tumors and    |
| January 01, 2014   | Safety and Chemopreventive Effect of Polyphenon E in Preventing Early and Metastatic Progression of Prostate Cancer in TRAMP Mice.                        | Prostate cancer treatment is often accompanied by untoward side effects.   |
| January 01, 2014   | Silencing HoxA1 by intraductal injection of siRNA lipidoid nanoparticles prevents mammary tumor progression in mice.                                      | With advances in screening, the incidence of detection of premalignant breast lesions has increased in recent decades; however, treatment options remain |
| January 01, 2014   | High-resolution imaging diagnosis and staging of bladder cancer: comparison between optical coherence tomography and high-frequency ultrasound.           | A comparative study between 1.3-microm optical coherence tomography (OCT) and 40-MHz high-frequency ultrasound (HFUS) is presented to enhance imaging    |
| October 01, 2013   | Phosphatidylserine-Targeting Antibody Induces M1 Macrophage Polarization and Promotes Myeloid-Derived Suppressor Cell Differentiation                     | Multiple tumor-derived factors are responsible for the accumulation and expansion of immune-suppressing myeloid-derived suppressor cells (MDSC) and M    |
| July 01, 2013      | Photoacoustic imaging of the bladder: a pilot study.  | Photoacoustic imaging is a promising new technology that combines tissue optical characteristics with ultrasound transmission and can potentially visu   |
| March 28, 2013     | Mitochondrial activation by inhibition of PDKII suppresses HIF1a signaling and angiogenesis in cancer   | Most solid tumors are characterized by a metabolic shift from glucose oxidation to glycolysis, in part due to actively suppressed mitochondrial functi   |
| March 26, 2013     | Ultrasound-Guided Intramural Inoculation of Orthotopic Bladder Cancer Xenografts: A Novel High-Precision Approach   | Orthotopic bladder cancer xenografts are essential for testing novel therapies and molecular manipulations of cell lines in vivo.                        |
| April 01, 2012     | Vascular Normalization by Loss of Siah2 Results in Increased Chemotherapeutic Efficacy  | Tumor hypoxia is associated with resistance to antiangiogenic therapy and poor prognosis.  |
| March 01, 2012     | Low-dose metronomic oral dosing of a prodrug of gemcitabine (LY2334737) causes antitumor effects in the absence of inhibition of systemic vasculogenesis. | Metronomic chemotherapy refers to the close, regular administration of conventional chemotherapy drugs at relatively low, minimally toxic doses, with    |
| March 01, 2012     | Oral infusion of pomegranate fruit extract inhibits prostate carcinogenesis in the TRAMP model.   | We earlier provided evidence that oral consumption of pomegranate fruit extract (PFE) inhibits prostate cancer (PCa) cell growth in nude mice.           |
| February 15, 2012  | Optical imaging with her2-targeted affibody molecules can monitor hsp90 treatment response in a breast cancer xenograft mouse model.                      | PURPOSE: To determine whether optical imaging can be used for in vivo therapy response monitoring as an alternative to radionuclide techniques.          |
| January 01, 2011   | Transcriptional profiling of the bladder in urogenital schistosomiasis reveals pathways of inflammatory fibrosis and urothelial compromise.               | Urogenital schistosomiasis, chronic infection by Schistosoma haematobium, affects 112 million people worldwide. S.                                       |
| January 01, 2011   | Experimental orthotopic prostate tumor in nude mice: Techniques for local cell inoculation and three-dimensional ultrasound monitoring                    | Objectives: Orthotopic prostate cancer models are of great importance for cancer research. Orthotopic models in mice have been described previously.     |
| September 15, 2011 | Mast Cell Targeting Hampers Prostate Adenocarcinoma Development but Promotes the Occurrence of Highly Malignant Neuroendocrine Cancers                    | Mast cells (MC) are c-Kit-expressing cells, best known for their primary involvement in allergic reactions, but recently reappraised as important play   |

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| August 01, 2011    | In vivo activity of combined PI3K/mTOR and MEK inhibition in a Kras(G12D);Pten deletion mouse model of ovarian cancer.  | The phosphatidylinositol 3-kinase (PI3K)/Akt pathway is commonly dysregulated in human cancer, making it an attractive target for novel anticancer the |
| June 01, 2011      | Proangiogenic factor PIGF programs CD11b(+) myelomonocytes in breast cancer during differentiation of their hematopoietic progenitors.  | Tumor-mobilized bone marrow-derived CD11b(+) myeloid cells promote tumor angiogenesis, but how and when these cells acquire proangiogenic properties i |
| June 01, 2011      | Effects of a synthetic PEG-ylated Tie-2 agonist peptide on endotoxemic lung injury and mortality.   | PURPOSE: To develop targeted molecular imaging probes for the noninvasive detection of breast cancer lymph node metastasis.                            |
| June 01, 2011      | In Vivo Targeted Contrast Enhanced Micro-Ultrasound to Measure Intratumor Perfusion and Vascular Endothelial Growth Factor Receptor 2 Expression in a Mouse Orthotopic Bladder Cancer Model | Purpose: We evaluated the feasibility of using targeted contrast enhanced micro-ultrasound imaging to assess intratumor perfusion and vascular endothe |
| April 01, 2011     | A perspective on vascular disrupting agents that interact with tubulin: preclinical tumor imaging and biological assessment.  | The tumor microenvironment provides a rich source of potential targets for selective therapeutic intervention with properly designed anticancer agents |
| February 15, 2011  | Fes Tyrosine Kinase Expression in the Tumor Niche Correlates with Enhanced Tumor Growth, Angiogenesis, Circulating Tumor Cells, Metastasis, and Infiltrating Macrophages                    | Fes is a protein tyrosine kinase with cell autonomous oncogenic activities that are well established in cell culture and animal models, but its involv |
| January 01, 2010   | In vivo bioimaging as a novel strategy to detect doxorubicin-induced damage to gonadal blood vessels.   | INTRODUCTION: Chemotherapy may induce deleterious effects in normal tissues, leading to organ damage.  |
| October 01, 2010   | Size and spatial orientation of uterine tissue transplants on the peritoneum crucially determine the growth and cyst formation of endometriosis-like lesions in mice.                       | BACKGROUND: In many studies in rodents, intraperitoneal endometriosis-like lesions are surgically induced by syngeneic or autologous transplantation o |
| February 01, 2010  | High-Resolution Ultrasound Imaging: A Novel Technique for the Noninvasive in Vivo Analysis of Endometriotic Lesion and Cyst Formation in Small Animal Models                                | Endometriosis, the presence of endometrial tissue at ectopic sites, is a highly prevalent gynecological dis- ease severely affecting a patient's quali |
| January 01, 2009   | Correlation between 2- and 3- dimensional assessment of Tumor Volume and Vascular Density by Ultrasonography in a Transgenic mouse model of Mammary carcinoma                               | Objective. Visualization and quantification of angiogenesis are instrumental in development of antian- giogenic therapy.                               |
| September 15, 2009 | Inhibition of Tumor Growth Progression by Antiandrogens and mTOR Inhibitor in a Pten-Deficient Mouse Model of Prostate Cancer   | Androgen receptors have been shown to play a critical role in prostate cancer.   |
| January 01, 2009   | Ovarian imaging in the mouse using ultrasound biomicroscopy (UBM): a validation study.  | The mouse is a well accepted model for studies of human reproduction despite little being known about follicle dynamics in this species.               |
| December 23, 2008  | Comparison of mouse mammary gland imaging techniques and applications: Reflectance confocal microscopy, GFP Imaging, and ultrasound   | BACKGROUND: Genetically engineered mouse models of mammary gland cancer enable the in vivo study of molecular mechanisms and signaling during developm |
| March 15, 2007     | Functional neoangiogenesis imaging of genetically engineered mouse prostate cancer using three-dimensional power Doppler ultrasound.  | We report the first application of high-frequency three-dimensional power Doppler ultrasound imaging in a genetically engineered mouse (GEM) prostate  |
| January 01, 2007   | Endothelial Growth Factor Receptor  | Objective.   |
| November 01, 2005  | Establishment of a serum tumor marker for preclinical trials of mouse prostate cancer models.   | Current prostate cancer research in both basic and preclinical trial studies employ genetically engineered mouse models.                               |

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| November 01, 2005 | The use of three-dimensional ultrasound micro-imaging to monitor prostate tumor development in a transgenic prostate cancer mouse model. | Longitudinal studies of mouse cancer models required large cohorts since autopsy was the only reliable method to evaluate treatment efficacy. |
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