

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	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
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
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 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 of
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 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 important
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 numerous
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	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.
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 ERα Positive Breast Cancer.	BACKGROUND/AIMS MiR-301a-3p is an oncogenic miRNA whose expression is associated with tumor development, metastases and overall poor prognosis.
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	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).
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.
August 06, 2017	Radiolabeled pertuzumab for imaging of human epidermal growth factor receptor 2 expression in ovarian cancer	© 2017, Springer-Verlag Berlin Heidelberg.
July 01, 2017	Abstract 2833: Epithelial cell adhesion molecule (EpCAM) is associated with prostate cancer progression and chemo-/radio-resistance in vitro and in vivo	Aims: Prostate cancer (CaP) is the most common cancer in males in Australia which caused more than 3000 deaths in 2015.
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
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	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.
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
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
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.
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 rema

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.
January 01, 2013	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
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	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.
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
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	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.
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	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
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
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	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 endothelium
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 is
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 involvement
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
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 disease severely affecting a patient's quality
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 antiangiogenic 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 development
April 01, 2007	A peptide conjugate of vitamin E succinate targets breast cancer cells with high ErbB2 expression.	Overexpression of erbB2 is associated with resistance to apoptosis.
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.

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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