

June 25, 2021	<a href="#">Magnetic black phosphorus microbubbles for targeted tumor theranostics</a>	Black phosphorus (BP) is attracting more and more interest for the biomedical application.
January 18, 2021	<a href="#">Morphological, functional, and molecular assessment of breast cancer bone metastases by experimental ultrasound techniques compared with magnetic resonance imaging and histological analysis</a>	Background: The imaging of bone metastases, which is regularly performed by cross-sectional modalities, is clinically vital when characterizing and st
November 03, 2020	<a href="#">Cysteine depletion induces pancreatic tumor ferroptosis in mice</a>	Ferroptosis is a form of cell death that results from the catastrophic accumulation of lipid reactive oxygen species (ROS).
October 19, 2020	<a href="#">Contrast-Enhanced Multispectral Photoacoustic Imaging for Irregular Hepatectomy Navigation: A Pilot Study</a>	Irregular hepatectomy plays a prominent role in the treatment of small hepatocellular carcinoma (HCC) patients with severe cirrhosis and localized liv
September 09, 2020	<a href="#">Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents</a>	A new photoacoustic (PA) dye was developed as a simple-to-use reagent for creating targeted PA imaging agents.
March 30, 2020	<a href="#">Noninvasive monitoring of liver metastasis development via combined multispectral photoacoustic imaging and fluorescence diffuse optical tomography</a>	Rationale: In vivo molecular imaging in preclinical animal models is a tool of choice for understanding the pathophysiological mechanisms involved in
January 01, 2019	<a href="#">Label-free Visualization of Early Cancer Hepatic Micrometastasis and Intraoperative Image-guided Surgery by Photoacoustic Imaging</a>	Objectives: The detection of cancer micrometastasis for early diagnosis and treatment poses a great challenge for conventional imaging techniques.
January 01, 2019	<a href="#">Indocyanine Green J Aggregates in Polymersomes for Near-Infrared Photoacoustic Imaging</a>	Clinical translation of photoacoustic imaging (PAI) has been limited by the lack of near-infrared (NIR) contrast agents with low toxicity required for
April 30, 2018	<a href="#">Intraoperative Resection Guidance with Photoacoustic and Fluorescence Molecular Imaging Using an Anti-B7-H3 Antibody-Indocyanine Green Dual Contrast Agent</a>	Breast cancer often requires surgical treatment including breast-conserving surgical resection.
November 01, 2017	<a href="#">Exploration of melanoma metastases in mice brains using endogenous contrast photoacoustic imaging</a>	Photoacoustic imaging (PAI) provides real time non-invasive and contrast agent free monitoring of some endogenous compounds concentrations that provid
January 01, 2016	<a href="#">Spectroscopic photoacoustic molecular imaging of breast cancer using a B7-H3-targeted ICG contrast agent</a>	Purpose: Breast cancer imaging methods lack diagnostic accuracy, in particular for patients with dense breast tissue, and improved techniques are crit
January 01, 2013	<a href="#">Quantification of Murine Pancreatic Tumors by High-Resolution Ultrasound</a>	Ultrasonography is a powerful imaging modality that enables non-invasive, real time visualization of abdominal organs and tissues.
November 01, 2012	<a href="#">Functional polycystin-1 dosage governs autosomal dominant polycystic kidney disease severity</a>	Autosomal dominant polycystic kidney disease (ADPKD) is caused by mutations to PKD1 or PKD2, triggering progressive cystogenesis and typically leading
November 29, 2021	<a href="#">GM-CSF drives myelopoiesis, recruitment and polarisation of tumour-associated macrophages in cholangiocarcinoma and systemic blockade facilitates antitumour immunity</a>	OBJECTIVE: Intrahepatic cholangiocarcinoma (iCCA) is rising in incidence, and at present, there are limited effective systemic therapies.
November 29, 2021	<a href="#">Gain-of-function p53R172H mutation drives accumulation of neutrophils in pancreatic tumors, promoting resistance to immunotherapy</a>	Tumor genotype can influence the immune microenvironment, which plays a critical role in cancer development and therapy resistance.
November 02, 2021	<a href="#">A 10% Tomato Diet Selectively Reduces Radiation-Induced Damage in TRAMP Mice</a>	Background: Tomatoes contain carotenoids that have the potential to alter the effects of external beam radiation therapy (EBRT).

October 19, 2021	<a href="#">Retinoblastoma cell-derived exosomes promote angiogenesis of human vesicle endothelial cells through microRNA 92a-3p</a>	Exosomes derived from tumor cells play a key role in tumor development.
October 19, 2021	<a href="#">Combining sonodynamic therapy with chemoradiation for the treatment of pancreatic cancer</a>	Treatment options for patients with pancreatic cancer are limited and survival prospects have barely changed over the past 4 decades.
October 19, 2021	<a href="#">Mn(II)-directed dual-photosensitizers co-assemblies for multimodal imaging-guided self-enhanced phototherapy</a>	Phototherapy has attracted increasing attention in cancer therapy owing to its non-invasive nature, high spatiotemporal selectivity, and negligible si
October 19, 2021	<a href="#">Acoustically Detonated Microbubbles Coupled with Low Frequency Insonation: Multiparameter Evaluation of Low Energy Mechanical Ablation</a>	Noninvasive ultrasound surgery can be achieved using focused ultrasound to locally affect the targeted site without damaging intervening tissues.
October 19, 2021	<a href="#">Sonopermeation with Nanoparticle-Stabilized Microbubbles Reduces Solid Stress and Improves Nanomedicine Delivery to Tumors</a>	Drug delivery to tumors is challenging due to biological barriers obstructing effective delivery.
October 19, 2021	<a href="#">Multifunctional nanozyme for multimodal imaging-guided enhanced sonodynamic therapy by regulating the tumor microenvironment</a>	Sonodynamic therapy (SDT) is a highly promising approach for cancer therapy, but its efficacy is severely hampered by the low specificity of sonosensi
October 18, 2021	<a href="#">Membrane composition is a functional determinant of NIR-activable liposomes in orthotopic head and neck cancer</a>	Near-infrared (NIR)-activable liposomes containing photosensitizer (PS)-lipid conjugates are emerging as tunable, high-payload, and tumor-selective pl
October 18, 2021	<a href="#">A live single-cell reporter assay links intratumor heterogeneity to metastatic proclivity in Ewing sarcoma</a>	Targeting of the most aggressive tumor cell subpopulations is key for effective management of most solid malignancies.
October 18, 2021	<a href="#">Immune/Hypoxic Tumor Microenvironment Regulation-Enhanced Photodynamic Treatment Realized by pH-Responsive Phase Transition-Targeting Nanobubbles</a>	Due to a special pathological type of triple-negative breast cancer (TNBC) and the lack of expression of the estrogen receptor (ER), progesterone rece
August 24, 2021	<a href="#">Targeted Micellar Phthalocyanine for Lymph Node Metastasis Homing and Photothermal Therapy in an Orthotopic Colorectal Tumor Model</a>	Small-sized trastuzumab-targeted micelles (T-MP) were engineered using a surfactant-stripping approach that yielded concentrated phthalocyanines with
August 09, 2021	<a href="#">Cross-Modality Imaging of Murine Tumor Vasculature—a Feasibility Study</a>	Tumor vasculature and angiogenesis play a crucial role in tumor progression. Their visualization is therefore of utmost importance to the community.
August 09, 2021	<a href="#">Iminodibenzyl redirected cyclooxygenase-2 catalyzed dihomog-linolenic acid peroxidation pattern in lung cancer</a>	Cyclooxygenase-2 (COX-2) is up-regulated by redox imbalance and is considered a target for cancer therapy.
July 07, 2021	<a href="#">Molecular magnetic resonance imaging of Alpha-v-Beta-3 integrin expression in tumors with ultrasound microbubbles</a>	Microbubbles (MB) are used as ultrasound (US) contrast agents and can be efficiently targeted against markers of angiogenesis and inflammation.
July 07, 2021	<a href="#">DLL1 orchestrates CD8+ T cells to induce long-term vascular normalization and tumor regression</a>	The immunosuppressive and hypoxic tumor microenvironment (TME) remains a major obstacle to impede cancer immunotherapy.
July 07, 2021	<a href="#">Low-dose X-ray enhanced tumor accumulation of theranostic nanoparticles for high-performance bimodal imaging-guided photothermal therapy</a>	Background: Theranostic nanoparticles (NPs) have achieved rapid development owing to their capacity for personalized multimodal diagnostic imaging and
June 25, 2021	<a href="#">ROS-responsive liposomes with NIR light-triggered doxorubicin release for combinatorial therapy of breast cancer</a>	Background: Reactive oxygen species (ROS)-responsive drug delivery systems (DDSs) are potential tools to minimize the side effects and substantially e

June 25, 2021	<a href="#">Dual mitigation of immunosuppression combined with photothermal inhibition for highly effective primary tumor and metastases therapy</a>	T-cell based immune response can attack cancer cells formidably when certain immune checkpoint (e.g., PD-1/PD-L1) is blocked.
June 25, 2021	<a href="#">Dual-Stimuli-Responsive Nanotheranostics for Dual-Targeting Photothermal-Enhanced Chemotherapy of Tumor</a>	Stimuli-responsive nanotheranostics have been widely explored for precision medicine.
June 21, 2021	<a href="#">Volumetric tumor delineation and assessment of its early response to radiotherapy with optical coherence tomography</a>	Texture analyses of optical coherence tomography (OCT) images have shown initial promise for differentiation of normal and tumor tissues.
June 21, 2021	<a href="#">Instant Ultrasound-Evoked Precise Nanobubble Explosion and Deep Photodynamic Therapy for Tumors Guided by Molecular Imaging</a>	Nanobubbles (NBs) have recently gained interest in cancer imaging and therapy due to the fact that nanoparticles with the size range of 1-1000 nm can
June 21, 2021	<a href="#">Tailored theranostic nanoparticles cause efficient ferroptosis in head and neck squamous cell carcinoma through a reactive oxygen species "butterfly effect"</a>	Multidrug resistance (MDR) is the main reason of chemotherapy failure in head and neck squamous cell carcinoma (HNSCC) patients, leading to the worst
June 10, 2021	<a href="#">Targeted microbubbles carrying lipid-oil-nanodroplets for ultrasound-triggered delivery of the hydrophobic drug, Combretastatin A4</a>	The hydrophobicity of a drug can be a major challenge in its development and prevents the clinical translation of highly potent anti-cancer agents.
June 10, 2021	<a href="#">FOSL1 promotes cholangiocarcinoma via transcriptional effectors that could be therapeutically targeted</a>	Background & Aims: Cholangiocarcinoma (CCA) is a neoplasia of the biliary tract driven by genetic, epigenetic and transcriptional mechanisms.
June 09, 2021	<a href="#">A metal protoporphyrin-induced nano-self-assembly for potentiating photothermal therapy by depleting antioxidant defense systems</a>	Nanomaterial-mediated low-temperature photothermal therapy (PTT) by integrating photothermal agent and heat shock proteins (HSPs) inhibitor holds great
June 09, 2021	<a href="#">Construction of Smart Nanotheranostic Platform Bi-Ag@PVP: Multimodal CT/PA Imaging-Guided PDT/PTT for Cancer Therapy</a>	High-efficiency nanotheranostic agents with multimodal imaging guidance have attracted considerable interest in the field of cancer therapy.
June 09, 2021	<a href="#">A Pegylated Flavin Adenine Dinucleotide PEG Complex to Boost Immunogenic and Therapeutic Effects in a Liver Cancer Model</a>	Flavin adenine dinucleotide (FAD) is engaged in several metabolic diseases.
June 09, 2021	<a href="#">Tuning band gap of MnO2 nanoflowers by Alkali metal doping for enhanced Ferroptosis/phototherapy synergism in Cancer</a>	Due to the complexity and heterogeneity of tumors, the therapeutic effectiveness of monomodal phototherapy is still limited.
June 07, 2021	<a href="#">Applications of the Chick Chorioallantoic Membrane as an Alternative Model for Cancer Studies</a>	A variety of in vivo experimental models have been established for the studies of human cancer using both cancer cell lines and patient-derived xenograft
June 07, 2021	<a href="#">Development of a bispecific immune engager using a recombinant malaria protein</a>	As an immune evasion and survival strategy, the Plasmodium falciparum malaria parasite has evolved a protein named VAR2CSA.
June 04, 2021	<a href="#">Targeting mitochondrial iron metabolism suppresses tumor growth and metastasis by inducing mitochondrial dysfunction and mitophagy</a>	Deferoxamine (DFO) represents a widely used iron chelator for the treatment of iron overload.
June 04, 2021	<a href="#">Transmucosal Delivery of Self-Assembling Photosensitizer-Nitazoxanide Nanocomplexes with Fluorinated Chitosan for Instillation-Based Photodynamic Therapy of Orthotopic Bladder Tumors</a>	Theoretically, on account of improved local bioavailability of photosensitizers and attenuated systemic phototoxicity, intravesical instillation-based
June 04, 2021	<a href="#">Oxygen and oxaliplatin-loaded nanoparticles combined with photo-sonodynamic inducing enhanced immunogenic cell death in syngeneic mouse models of ovarian cancer</a>	Immunotherapy by stimulating the host immune system has been a promising therapeutic strategy for advanced ovarian cancer.

June 04, 2021	<a href="#">Sequential Release of Pooled siRNAs and Paclitaxel by Aptamer-Functionalized Shell-Core Nanoparticles to Overcome Paclitaxel Resistance of Prostate Cancer</a>	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	<a href="#">Hollow Mesoporous Silica Nanoparticles Gated by Chitosan-Copper Sulfide Composites as Theranostic Agents for the Treatment of Breast Cancer</a>	The combination of chemotherapy and photothermal therapy (PTT) into a single formulation has attracted increasing attention as a strategy for enhancing
June 04, 2021	<a href="#">PH-triggered poly(ethylene glycol)-poly(lactic acid/glycolic acid)/ croconaine nanoparticles-assisted multiplexed photoacoustic imaging and enhanced photothermal cancer therapy</a>	The most advantageous and attractive property of photoacoustic imaging is its capability to visualize and differentiate multiple species according to
May 28, 2021	<a href="#">Targeting EphA2 suppresses hepatocellular carcinoma initiation and progression by dual inhibition of JAK1/STAT3 and AKT signaling</a>	Hepatocellular carcinoma (HCC) remains one of the deadliest malignancies worldwide.
May 20, 2021	<a href="#">Development of an embedded multimodality imaging platform for onco-pharmacology using a smart anticancer prodrug as an example</a>	Increasingly, in vivo imaging holds a strategic position in bio-pharmaceutical innovation.
March 25, 2021	<a href="#">Regorafenib combined with PD1 blockade increases CD8 T-cell infiltration by inducing CXCL10 expression in hepatocellular carcinoma</a>	Background and purpose Combining inhibitors of vascular endothelial growth factor and the programmed cell death protein 1 (PD1) pathway has shown effi
March 25, 2021	<a href="#">Placental growth factor promotes tumour desmoplasia and treatment resistance in intrahepatic cholangiocarcinoma</a>	Objective: Intrahepatic cholangiocarcinoma (ICC) - a rare liver malignancy with limited therapeutic options - is characterised by aggressive progressi
March 25, 2021	<a href="#">Combination of vasculature targeting, hypofractionated radiotherapy, and immune checkpoint inhibitor elicits potent antitumor immune response and blocks tumor progression</a>	ABSTRACT Background Tumor endothelial marker 1 (TEM1) is a protein expressed in the tumor- associated endothelium and/or stroma of various types of ca
March 25, 2021	<a href="#">One-step synthesis of multifunctional nanoparticles for CT/PA imaging guided breast cancer photothermal therapy</a>	Advances in nanotheranostics have promoted the development of precision medicine, which has great potential as a weapon for clinical diagnosis and the
March 25, 2021	<a href="#">Respiratory Motion Mitigation and Repeatability of Two Diffusion-Weighted MRI Methods Applied to a Murine Model of Spontaneous Pancreatic Cancer</a>	Respiratory motion and increased susceptibility effects at high magnetic fields pose challenges for quantitative diffusion-weighted MRI (DWI) of a mou
March 25, 2021	<a href="#">Photoacoustic monitoring of oxygenation changes induced by therapeutic ultrasound in murine hepatocellular carcinoma</a>	Hepatocellular carcinoma (HCC) is a highly vascular solid tumor.
March 12, 2021	<a href="#">A multimodal molecular imaging approach targeting urokinase plasminogen activator receptor for the diagnosis, resection and surveillance of urothelial cell carcinoma</a>	With a 5-year recurrence rate of 30–78%, urothelial cell carcinoma (UCC) rates amongst the highest of all solid malignancies.
March 08, 2021	<a href="#">Digoxin treatment reactivates in vivo radioactive iodide uptake and correlates with favorable clinical outcome in non-medullary thyroid cancer</a>	Purpose: Non-medullary thyroid cancer (NMTC) treatment is based on the ability of thyroid follicular cells to accumulate radioactive iodide (RAI).
March 08, 2021	<a href="#">Inhibition of focal adhesion kinase enhances antitumor response of radiation therapy in pancreatic cancer through CD8+ T cells</a>	Objective: Pancreatic ductal adenocarcinoma (PDAC) is a deadly malignancy, due in large part to its resistance to conventional therapies, including ra
March 03, 2021	<a href="#">Adaptation of pancreatic cancer cells to nutrient deprivation is reversible and requires glutamine synthetase stabilization by mTORC1</a>	Pancreatic ductal adenocarcinoma (PDA) is a lethal, therapy-resistant cancer that thrives in a highly desmoplastic, nutrient-deprived microenvironment
March 02, 2021	<a href="#">Sonoporation-enhanced chemotherapy significantly reduces primary tumour burden in an orthotopic pancreatic cancer xenograft</a>	Purpose: Adenocarcinoma of the pancreas remains one of the most lethal human cancers.

March 01, 2021	<a href="#">Pharmacological Normalization of Pancreatic Cancer–Associated Fibroblast Secretome Impairs Pro-metastatic Cross-Talk With Macrophages</a>	Cancer-associated fibroblasts orchestrate pancreatic adeno- carcinoma (PDA) aggressiveness.
March 01, 2021	<a href="#">Time-restricted feeding normalizes hyperinsulinemia to inhibit breast cancer in obese postmenopausal mouse models</a>	Accumulating evidence indicates that obesity with its associated metabolic dysregulation, including hyperinsulinemia and aberrant circadian rhythms, i
February 23, 2021	<a href="#">Gold nanoparticle-based nanoprobe with enhanced tumor targeting and photothermal/photodynamic response for therapy of osteosarcoma</a>	Abstract Plasmonic nanomaterials, especially a wide variety of gold nanoparticles, demonstrate great potential for theranostics of cancer.
February 23, 2021	<a href="#">Enhanced Antitumoral Activity and Photoacoustic Imaging Properties of AuNP-Enriched Endothelial Colony Forming Cells on Melanoma</a>	Near infrared (NIR)-resonant gold nanoparticles (AuNPs) hold great promise in cancer diagnostics and treatment.
February 23, 2021	<a href="#">Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer</a>	Over the last decade, there has been significant developments in nanotechnology, in particular for combined imaging and therapeutic applications (ther
February 23, 2021	<a href="#">Tumor-Specific Activatable Nanocarriers with Gas-Generation and Signal Amplification Capabilities for Tumor Theranostics</a>	Multifunctional nanotheranostics are typically designed by integrating multiple functional components.
January 29, 2021	<a href="#">Quantitative In Vivo Monitoring of Hypoxia and Vascularization of Patient-Derived Murine Xenografts of Mantle Cell Lymphoma Using Photoacoustic and Ultrasound Imaging</a>	Tumor oxygenation and vascularization are important parameters that determine the aggressiveness of the tumor and its resistance to cancer therapies.
January 18, 2021	<a href="#">4-Methoxydalbergione is a potent inhibitor of human astrogloma U87 cells in vitro and in vivo</a>	Astrogloma is the most common primary tumor in the central nervous system without effective treatment strategies.
January 18, 2021	<a href="#">Multifunctional nanotheranostic gold nanocage/ selenium core-shell for pai-guided chemo-photothermal synergistic therapy in vivo</a>	Introduction: Cancer theragnosis involving cancer diagnosis and targeted therapy simultaneously in one integrated system would be a promising solution
January 18, 2021	<a href="#">Systemic and intravesical adoptive cell therapy of tumor-reactive T cells can decrease bladder tumor growth in vivo</a>	BACKGROUND: The therapeutic armamentarium of bladder cancer has been recently enriched with the introduction of new therapies including immune checkpo
January 14, 2021	<a href="#">Biomimetic Anti PD 1 Peptide Loaded 2D FePSe 3 Nanosheets for Efficient Photothermal and Enhanced Immune Therapy with Multimodal MR/PA/Thermal Imaging</a>	Metal phosphorous trichalcogenides (MPX3) are novel 2D nanomaterials that have recently been exploited as efficient photothermal–chemodynamic agents f
January 14, 2021	<a href="#">Apigenin Increases SHIP-1 Expression, Promotes Tumoricidal Macrophages and Anti-Tumor Immune Responses in Murine Pancreatic Cancer</a>	Pancreatic cancer (PC) has an extremely poor prognosis due to the expansion of immunosuppressive myeloid-derived suppressor cells (MDSC) and tumor-ass
January 14, 2021	<a href="#">Galactosyltransferase B4GALT1 confers chemoresistance in pancreatic ductal adenocarcinomas by upregulating N-linked glycosylation of CDK11p110</a>	Aberrant glycosylation in pancreatic cancer has been linked to cancer development, progression and chemoresistance.
January 04, 2021	<a href="#">Ultrastable AgBiS2Hollow Nanospheres with Cancer Cell-Specific Cytotoxicity for Multimodal Tumor Therapy</a>	Specific cytotoxicity for catalytic nanomedicine triggered by the tumor microenvironment (TME) has attracted increasing interest.
January 04, 2021	<a href="#">Therapeutic Ultrasound Parameter Optimization for Drug Delivery Applied to a Murine Model of Hepatocellular Carcinoma</a>	Ultrasound and microbubble (USMB)-mediated drug delivery is a valuable tool for increasing the efficiency of the delivery of therapeutic agents to can

January 04, 2021	<a href="#">Bruceantin targets HSP90 to overcome resistance to hormone therapy in castration-resistant prostate cancer</a>	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
January 04, 2021	<a href="#">Highly photostable croconium dye-anchored cell membrane vesicle for tumor pH-responsive duplex imaging-guided photothermal therapy</a>	The development of tumor acidic microenvironment-responsive theranostic agents is a research hotspot.
January 04, 2021	<a href="#">Photoacoustic and magnetic resonance imaging of hybrid manganese dioxide-coated ultra-small NaGdF4 nanoparticles for spatiotemporal modulation of hypoxia in head and neck cancer</a>	There is widespread interest in developing agents to modify tumor hypoxia in head and neck squamous cell carcinomas (HNSCC).
January 04, 2021	<a href="#">Assessment of the theranostic potential of gold nanostars-a multimodal imaging and photothermal treatment study</a>	Gold nanoparticles offer the possibility to combine both imaging and therapy of otherwise difficult to treat tumors.
January 04, 2021	<a href="#">Multimodal Imaging of Pancreatic Ductal Adenocarcinoma Using Multifunctional Nanoparticles as Contrast Agents</a>	Late diagnosis and refractory behavior toward current treatment protocols make pancreatic ductal adenocarcinoma (PDAC) one of the most difficult cancer
January 04, 2021	<a href="#">Bacteria-derived membrane vesicles to advance targeted photothermal tumor ablation</a>	Nanoscale outer membrane vesicles (OMVs) secreted by Gram-negative bacteria are often applied in antibacterial treatment as adjuvants or antigens.
January 04, 2021	<a href="#">Triptolide targets super-enhancer networks in pancreatic cancer cells and cancer-associated fibroblasts</a>	The tumor microenvironment in pancreatic ductal adenocarcinoma (PDAC) is highly heterogeneous, fibrotic, and hypovascular, marked by extensive desmopl
January 04, 2021	<a href="#">Multifunctional tumor-targeted PLGA nanoparticles delivering Pt(IV)/siBIRC5 for US/MRI imaging and overcoming ovarian cancer resistance</a>	Cisplatin (Pt(II)) resistance is an important factor in the high mortality rates of ovarian cancer.
December 30, 2020	<a href="#">Ultrasound Molecular Imaging of Renal Cell Carcinoma: VEGFR targeted therapy monitored with VEGFR1 and FSHR targeted microbubbles</a>	Recent treatment developments for metastatic renal cell carcinoma offer combinations of immunotherapies or immunotherapy associated with tyrosine kina
November 03, 2020	<a href="#">BRAFV600E overrides NOTCH signaling in thyroid cancer.</a>	Background: Several mechanisms likely co-operate with the MAP-kinase pathway to promote cancer progression in the thyroid.
November 03, 2020	<a href="#">Targeted theranostics of lung cancer: PD-L1-guided delivery of gold nanoprisms with chlorin e6 for enhanced imaging and photothermal/photodynamic therapy</a>	Peptide modified nanoparticles have emerged as powerful tools for enhanced cancer diagnosis and novel treatment strategies.
November 03, 2020	<a href="#">Respiratory Supercomplexes Promote Mitochondrial Efficiency and Growth in Severely Hypoxic Pancreatic Cancer</a>	Pancreatic ductal adenocarcinoma (PDAC) is characterized by extensive fibrosis and hypovascularization, resulting in significant intratumoral hypoxia
October 23, 2020	<a href="#">Precision mouse models with expanded tropism for human pathogens</a>	A major limitation of current humanized mouse models is that they primarily enable the analysis of human-specific pathogens that infect hematopoietic
October 19, 2020	<a href="#">In Vivo Real-Time Pharmaceutical Evaluations of Near-Infrared II Fluorescent Nanomedicine Bound Polyethylene Glycol Ligands for Tumor Photothermal Ablation</a>	Pharmaceutical evaluations of nanomedicines are of great significance for their further launch into industry and clinic.
October 19, 2020	<a href="#">Ultrasound-triggered therapeutic microbubbles enhance the efficacy of cytotoxic drugs by increasing circulation and tumor drug accumulation and limiting bioavailability and toxicity in normal tissues</a>	Most cancer patients receive chemotherapy at some stage of their treatment which makes improving the efficacy of cytotoxic drugs an ongoing and import
October 16, 2020	<a href="#">Prophylactical low dose whole-liver irradiation inhibited colorectal liver metastasis by regulating hepatic niche in mice</a>	Background: The liver is the most common target for metastatic colorectal cancer.

October 16, 2020	<a href="#">Elevated Serum Amino Acids Induce a Subpopulation of Alpha Cells to Initiate Pancreatic Neuroendocrine Tumor Formation</a>	The cellular origin of sporadic pancreatic neuroendocrine tumors (PNETs) is obscure.
October 16, 2020	<a href="#">Ultrasound-Mediated Delivery of Chemotherapy into the Transgenic Adenocarcinoma of the Mouse Prostate Model</a>	Ultrasound (US) in combination with microbubbles (MB) has had promising results in improving delivery of chemotherapeutic agents.
October 16, 2020	<a href="#">Iron(II) phthalocyanine loaded and as1411 aptamer targeting nanoparticles: A nanocomplex for dual modal imaging and photothermal therapy of breast cancer</a>	Purpose: A multi-functional nanoplatform with diagnostic imaging and targeted treatment functions has aroused much interest in the nanomedical research
October 16, 2020	<a href="#">Cisplatin promotes the expression level of PD-L1 in the microenvironment of hepatocellular carcinoma through YAP1</a>	Hepatocellular carcinoma (HCC) is one of the most lethal malignancies worldwide.
October 16, 2020	<a href="#">Novel biomimetic dual-mode nanodroplets as ultrasound contrast agents with potential ability of precise detection and photothermal ablation of tumors</a>	Purpose: Molecule-targeted ultrasound imaging has attracted extensive attention for precise diagnosis and targeted therapy of tumors.
October 16, 2020	<a href="#">pH-responsive Ag2S nanodots loaded with heat shock protein 70 inhibitor for photoacoustic imaging-guided photothermal cancer therapy</a>	Heat-treated cancer cells have thermo-resistance due to the up-regulated levels of heat shock proteins (HSP) resulting in low therapeutic efficiency a
October 16, 2020	<a href="#">Synergistic activity of linifanib and irinotecan increases the survival of mice bearing orthotopically implanted human anaplastic thyroid cancer.</a>	Anaplastic thyroid cancer (ATC) is the most aggressive form of thyroid cancer, and novel combined therapies are urgently needed to prolong patient sur
October 01, 2020	<a href="#">Albumin-constrained large-scale synthesis of renal clearable ferrous sulfide quantum dots for T1-Weighted MR imaging and phototheranostics of tumors</a>	Ultras-small-sized iron-based nanoparticles are showing increasing potentials to be alternatives as T1-weighted magnetic resonance imaging (MRI) contras
September 09, 2020	<a href="#">Construction of Nucleolin-Targeted Lipid Nanobubbles and Contrast-Enhanced Ultrasound Molecular Imaging in Triple-Negative Breast Cancer</a>	Purpose: To construct aptamer AS1411-functionalized targeted lipid nanobubbles that could simultaneously target abnormally highly expressed nucleolin
September 09, 2020	<a href="#">Interrogating the immune-modulating roles of radiation therapy for a rational combination with immune-checkpoint inhibitors in treating pancreatic cancer</a>	Background Radiation therapy (RT) has the potential to enhance the efficacy of immunotherapy, such as checkpoint inhibitors, which has dramatically al
September 09, 2020	<a href="#">Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment</a>	The development of novel anticancer therapies warrants the parallel development of biomarkers that can quantify their effectiveness.
September 09, 2020	<a href="#">The novel DPP-BDT nanoparticles as efficient photoacoustic imaging and positron emission tomography agents in living mice</a>	Background: Molecular imaging is of great benefit to early disease diagnosis and timely treatment.
June 01, 2020	<a href="#">Photoacoustic imaging for three-dimensional visualization and delineation of basal cell carcinoma in patients</a>	Background: Photoacoustic (PA) imaging is an emerging non-invasive biomedical imaging modality that could potentially be used to determine the borders
June 01, 2020	<a href="#">Gambogic acid augments black phosphorus quantum dots (BPQDs)-based synergistic chemo-photothermal therapy through downregulating heat shock protein expression</a>	In an attempt to attain synergistic therapeutic benefits and address various intrinsic limitations of the highly efficient black phosphorus quantum do
June 01, 2020	<a href="#">Light-assisted hierarchical intratumoral penetration and programmed antitumor therapy based on tumor microenvironment (TME)-amendatory and self-adaptive polymeric nanoclusters</a>	The anticancer performance of nanomedicine is largely impeded by insufficient intratumoral penetration.

June 01, 2020	<a href="#">Generation of Pancreatic Organoid-Derived Isografts</a>	This protocol is a procedure for generating orthotopic isografts using mouse pancreatic cancer organoids.
May 14, 2020	<a href="#">Nanostructural Control Enables Optimized Photoacoustic–Fluorescence–Magnetic Resonance Multimodal Imaging and Photothermal Therapy of Brain Tumor</a>	The performance of current multimodal imaging contrast agents is often constrained by the tunability of nanomaterial structural design.
May 01, 2020	<a href="#">Sequential delivery of nanoformulated <math>\alpha</math>-mangostin and triptolide overcomes permeation obstacles and improves therapeutic effects in pancreatic cancer</a>	Pancreatic ductal adenocarcinoma (PDAC) is a devastating disease exhibiting the poorest prognosis among solid tumors.
May 01, 2020	<a href="#">Opposing Functions of BRD4 Isoforms in Breast Cancer</a>	Bromodomain-containing protein 4 (BRD4) is a cancer therapeutic target in ongoing clinical trials disrupting primarily BRD4-regulated transcription pr
May 01, 2020	<a href="#">Co-delivery of Cu(I) chelator and chemotherapeutics as a new strategy for tumor theranostic</a>	Chelating Cu from tumors has been verified as an effective and promising strategy for cancer therapy through antiangiogenesis.
May 01, 2020	<a href="#">Melanin-instructed biomimetic synthesis of copper sulfide for cancer phototheranostics</a>	Biomimetic synthesis is a promising strategy for the preparation of nanotheranostics with excellent biocompatibility.
May 01, 2020	<a href="#">Biogenic nanobubbles for effective oxygen delivery and enhanced photodynamic therapy of cancer</a>	Tumor hypoxia is believed to be a factor limiting successful outcomes of oxygen-consuming cancer therapy, thereby reducing patient survival.
May 01, 2020	<a href="#">Biodegradable theranostic nanoplatforms of albumin-biomaterialized nanocomposites modified hollow mesoporous organosilica for photoacoustic imaging guided tumor synergistic therapy</a>	Benefit from the integration of therapeutic and diagnostic functions, theranostic nanoplatforms have attracted widespread attention in preclinical res
May 01, 2020	<a href="#">Design of Light/ROS Cascade-Responsive Tumor-Recognizing Nanotheranostics for Spatiotemporally Controlled Drug Release in Locoregional Photo-Chemotherapy</a>	Carrier-free nanotheranostics with high drug loading and no carrier-related toxicity are highly promising cancer therapy agents.
April 01, 2020	<a href="#">Scalable dextran-polypyrrole nano-assemblies with photothermal/photoacoustic dual capabilities and enhanced biocompatibility</a>	Polypyrroles have shown great potential in photoacoustic imaging and photothermal therapy owing to its excellent photothermal conversion capabilities.
April 01, 2020	<a href="#">Rod-based urchin-like hollow microspheres of Bi<sub>2</sub>S<sub>3</sub>: Facile synthesis, photo-controlled drug release for photoacoustic imaging and chemo-photothermal therapy of tumor ablation</a>	Hollow nanostructures have been evoked considerable attention owing to their intriguing hollow interior for important and potential applications in dr
April 01, 2020	<a href="#">Janus <math>\gamma</math>-Fe<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub>-based nanotheranostics for dual-modal imaging and enhanced synergistic cancer starvation/chemodynamic therapy</a>	Multimodal cancer synergistic therapy exhibited remarkable advantages over monotherapy in producing an improved therapeutic efficacy.
April 01, 2020	<a href="#">Less is more: Silver-AIE core@shell nanoparticles for multimodality cancer imaging and synergistic therapy</a>	Nanomaterials with integrated multiple imaging and therapeutic modalities possess great potentials in accurate cancer diagnostics and enhanced therapy
April 01, 2020	<a href="#">Spectral Signatures in the Different Layers of the Human Eyelid by Photoacoustic Imaging</a>	Background and Objectives: The eyelids are susceptible to a number of skin cancers, which are challenging to excise radically without sacrificing exce
April 01, 2020	<a href="#">Surface-modified GVs as nanosized contrast agents for molecular ultrasound imaging of tumor</a>	Nanobubbles, as a kind of new ultrasound contrast agent (UCAs), have shown promise to penetrate tumor vasculature to allow for targeted imaging.

March 31, 2020	<a href="#">Long Circulating Drug Dye Based Micelles with Ultrahigh pH Sensitivity for Deep Tumor Penetration and Superior Chemo-Photothermal Therapy</a>	Nanocarriers for chemo-photothermal therapy suffer from insufficient retention at the tumor site and poor penetration into tumor parenchyma.
March 31, 2020	<a href="#">Novel Multifunctional Nanoagent for Visual Chemo/Photothermal Therapy of Metastatic Lymph Nodes via Lymphatic Delivery</a>	Breast cancer is one of the major diseases that threaten women's health.
March 30, 2020	<a href="#">Biologically Responsive Plasmonic Assemblies for Second Near-Infrared Window Photoacoustic Imaging-Guided Concurrent Chemo-Immunotherapy</a>	We developed dual biologically responsive nanogapped gold nanoparticle vesicles loaded with immune inhibitor and carrying an anticancer polymeric prod
March 01, 2020	<a href="#">B cell-Derived IL35 Drives STAT3-Dependent CD8 + T-cell Exclusion in Pancreatic Cancer</a>	Pancreatic ductal adenocarcinoma (PDA) is an aggressive malignancy characterized by a paucity of tumor-proximal CD8+ T cells and resistance to immunot
March 01, 2020	<a href="#">In vivo delivery of an exogenous molecule into murine T lymphocytes using a lymphatic drug delivery system combined with sonoporation</a>	Physical delivery of exogenous molecules into lymphocytes is extremely challenging because conventional methods have notable limitations.
March 01, 2020	<a href="#">LIN28B Underlies the Pathogenesis of a Subclass of Ewing Sarcoma</a>	Ewing sarcoma (EwS) is associated with poor prognosis despite current multimodal therapy.
March 01, 2020	<a href="#">Senescence-Induced Vascular Remodeling Creates Therapeutic Vulnerabilities in Pancreas Cancer</a>	Summary KRAS mutant pancreatic ductal adenocarcinoma (PDAC) is characterized by a desmoplastic response that promotes hypovascularity, immunosuppressi
March 01, 2020	<a href="#">Cathodic protected Mn<sup>2+</sup> by Na<sub>2</sub>WO<sub>3</sub> nanorods for stable magnetic resonance imaging-guided tumor photothermal therapy</a>	The stability and safety of magnetic resonance imaging (MRI) contrast agents (CAs) are crucial for accurate diagnosis and real-time monitor of tumor d
March 01, 2020	<a href="#">Biodegradable CoS<sub>2</sub> nanoclusters for photothermal-enhanced chemodynamic therapy</a>	Retaining in tumors for cancer diagnosis/treatment with sequential elimination from body is crucial to the clinical translation of inorganic medicamen
March 01, 2020	<a href="#">Bimetallic nanodots for tri-modal CT/MRI/PA imaging and hypoxia-resistant thermoradiotherapy in the NIR-II biological windows</a>	Hypoxic tumor microenvironment leads to resistance or failure of radiotherapy (RT).
March 01, 2020	<a href="#">Light-activated oxygen self-supplied starving therapy in near-infrared (NIR) window and adjuvant hyperthermia-induced tumor ablation with an augmented sensitivity</a>	Glucose oxidase (GOx)-mediated starvation circumvents the energy supply for tumor growth, which has been proved as a potent tumor treatment modality.
February 01, 2020	<a href="#">Dual-stimuli responsive nanotheranostics for mild hyperthermia enhanced inhibition of Wnt/<math>\beta</math>-catenin signaling</a>	Wnt/ $\beta$ -catenin signaling cascade is highly associated with tumorigenesis and progression of various cancers.
February 01, 2020	<a href="#">US-triggered ultra-sensitive "thrombus constructor" for precise tumor therapy</a>	Embolization therapy is an attractive strategy for antitumor therapy, especially for solid tumors.
February 01, 2020	<a href="#">Tumor Contrast Imaging with Gas Vesicles by Circumventing the Reticuloendothelial System</a>	Gas vesicles (GVs) are nanosized structures (45–800 nm) and have been reported to produce non-linear contrast signals, making them an attractive agent
February 01, 2020	<a href="#">Enhancing sustained-release local therapy: Single versus dual chemotherapy for the treatment of neuroblastoma</a>	Background: Neuroblastoma is the most common pediatric extracranial solid malignancy with limited effective treatment.
January 30, 2020	<a href="#">Interstitial diffuse optical probe with spectral fitting to measure dynamic tumor hypoxia</a>	Understanding the dynamic nature of tumor hypoxia is vital for cancer therapy.

January 01, 2020	<a href="#">Conjugation of a Scintillator Complex and Gold Nanorods for Dual-Modal Image-Guided Photothermal and X-ray-Induced Photodynamic Therapy of Tumors</a>	Light-mediated therapy has many unique merits but monotherapy strategies rarely completely inhibit tumor growth because resistance often develops.
January 01, 2020	<a href="#">ILC2s amplify PD-1 blockade by activating tissue-specific cancer immunity</a>	Group 2 innate lymphoid cells (ILC2s) regulate inflammation and immunity in mammalian tissues <sup>1,2</sup> .
January 01, 2020	<a href="#">Polydopamine-doped virus-like structured nanoparticles for photoacoustic imaging guided synergistic chemo-/photothermal therapy</a>	The therapeutic diagnosis effect of cancer commonly depends on the cellular uptake efficiency of nanomaterials.
January 01, 2020	<a href="#">GSH Depleted PtCu 3 Nanocages for Chemodynamic Enhanced Sonodynamic Cancer Therapy</a>	The ultrahigh concentration of glutathione (GSH) inside tumors destroys reactive oxygen species (ROS) based therapy, improving the outcome of chemodyn
January 01, 2020	<a href="#">Fluorinated Chitosan To Enhance Transmucosal Delivery of Sonosensitizer-Conjugated Catalase for Sonodynamic Bladder Cancer Treatment Post-intravesical Instillation</a>	Sonodynamic therapy (SDT) is a noninvasive ultrasound-triggered therapeutic strategy for site-specific treatment of tumors with great depth penetratio
January 01, 2020	<a href="#">Clarithromycin inhibits autophagy in colorectal cancer by regulating the hERG1 potassium channel interaction with PI3K</a>	We have studied how the macrolide antibiotic Clarithromycin (Cla) regulates autophagy, which sustains cell survival and resistance to chemotherapy in
January 01, 2020	<a href="#">Inhibited metastasis and amplified chemotherapeutic effects by epigene-transfection based on a tumor-targeting nanoparticle</a>	Purpose: Tumor metastasis and drug resistance have always been vital aspects to cancer mortality and prognosis.
January 01, 2020	<a href="#">Development and Validation of a Clinically Relevant Workflow for MR-Guided Volumetric Arc Therapy in a Rabbit Model of Head and Neck Cancer</a>	There is increased interest in the use of magnetic resonance imaging (MRI) for guiding radiation therapy (RT) in the clinical setting.
January 01, 2020	<a href="#">Radiosensitive core/satellite ternary heteronanostructure for multimodal imaging-guided synergistic cancer radiotherapy</a>	Developing safe, effective and targeting radiosensitizers with clear action mechanisms to achieve synergistic localized cancer treatment is an importa
January 01, 2020	<a href="#">Tumor Microenvironment Adaptable Nanoplatform for O<sub>2</sub> Self Sufficient Chemo/Photodynamic Combination Therapy</a>	Malignant proliferation of tumor cells induces abnormal tissue microenvironments, leading to therapeutic resistance and poor therapeutic outcome.
January 01, 2020	<a href="#">Dietary Tomato or Lycopene Do Not Reduce Castration-Resistant Prostate Cancer Progression in a Murine Model</a>	Background: Dietary tomato products or lycopene protect against prostate carcinogenesis, but their impact on the emergence of castration-resistant pro
January 01, 2020	<a href="#">Statin as anti-cancer therapy in autochthonous T-lymphomas expressing stabilized gain-of-function mutant p53 proteins</a>	An important component of missense mutant p53 gain-of-function (mutp53 GOF) activities is the ability of stabilized mutp53 proteins to upregulate the
January 01, 2020	<a href="#">On-demand drug release nanoplatform based on fluorinated aza-BODIPY for imaging-guided chemo-phototherapy</a>	Intelligent drug delivery systems (DDS), integrating with multi-modal imaging guidance and controlled drug release, have practical significance in enh
January 01, 2020	<a href="#">Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties</a>	The low magnetic saturation of iron oxide nanoparticles, which are developed primarily as contrast agents for magnetic resonance imaging, limits the s
January 01, 2020	<a href="#">Progression of AITL-like tumors in mice is driven by Tfh signature proteins and T-B cross talk</a>	Angioimmunoblastic T-cell lymphoma (AITL) is an aggressive peripheral T-cell lymphoma driven by a pool of neoplastic cells originating from T follicul

January 01, 2020	<a href="#">Systemic long term inactivation of hypoxia inducible factor prolyl 4 hydroxylase 2 ameliorates aging induced changes in mice without affecting their life span</a>	Hypoxia inactivates hypoxia-inducible factor (HIF) prolyl 4-hydroxylases (HIF-P4Hs), which stabilize HIF and upregulate genes to restore tissue oxygen
January 01, 2020	<a href="#">Near-Infrared Light-Responsive Nitric Oxide Delivery Platform for Enhanced Radioimmunotherapy</a>	Radiotherapy (RT) is a widely used way for cancer treatment.
January 01, 2020	<a href="#">Hydrogen-Peroxide-Responsive Protein Biomimetic Nanoparticles for Photothermal-Photodynamic Combination Therapy of Melanoma</a>	Background and Objectives: Recently, there has been a rapid increase in the incidences of melanoma, which represents a serious threat to human health.
January 01, 2020	<a href="#">PEGylated-folic acid–modified black phosphorus quantum dots as near-infrared agents for dual-modality imaging-guided selective cancer cell destruction</a>	Biological systems have high transparency to 700–1100-nm near-infrared (NIR) light.
January 01, 2020	<a href="#">Inhibition of erythropoietin producing hepatoma receptor B4 (EphB4) signaling suppresses the vascularization and growth of endometriotic lesions</a>	Background and Purpose: The development of endometriotic lesions is crucially dependent on the formation of new blood vessels.
January 01, 2020	<a href="#">Heterogeneity and chimerism of endothelial cells revealed by single-cell transcriptome in orthotopic liver tumors</a>	The liver is a common host organ for cancer, either through lesions that arise in liver epithelial cells [e.g., hepatocellular carcinoma (HCC)] or as
January 01, 2020	<a href="#">Organoid-Transplant Model Systems to Study the Effects of Obesity on the Pancreatic Carcinogenesis in vivo</a>	Pancreatic ductal adenocarcinoma (PDAC) is the third leading cause of cancer-related mortality among adults in developed countries.
January 01, 2020	<a href="#">Liposomal 2-Methoxyestradiol Nanoparticles for Treatment of Uterine Leiomyoma in a Patient-Derived Xenograft Mouse Model</a>	Uterine leiomyomas represent a challenging problem with limited medical treatment options.
January 01, 2020	<a href="#">Local delivery of dinutuximab from lyophilized silk fibroin foams for treatment of an orthotopic neuroblastoma model</a>	Immunotherapy targeting GD2 is a primary treatment for patients with high-risk neuroblastoma.
January 01, 2020	<a href="#">Chemiluminescence resonance energy transfer-based nanoparticles for quantum yield-enhanced cancer phototheranostics</a>	Chemiluminescence (CL) has recently gained attention for CL resonance energy transfer (CRET)–mediated photodynamic therapy of cancer.
January 01, 2020	<a href="#">Establishment and characterization of a cell line and patient-derived xenograft (PDX) from peritoneal metastasis of low-grade serous ovarian carcinoma</a>	Peritoneal spread indicates poor prognosis in patients with serous ovarian carcinoma (SOC) and is generally treated by surgical cytoreduction and chem
January 01, 2020	<a href="#">SUSD2 expression correlates with decreased metastasis and increased survival in a high-grade serous ovarian cancer xenograft murine model</a>	The cause of death among high-grade serous ovarian cancer (HGSOC) patients involves passive dissemination of cancer cells within the peritoneal cavity
January 01, 2020	<a href="#">Microvascular Ultrasonic Imaging of Angiogenesis Identifies Tumors in a Murine Spontaneous Breast Cancer Model</a>	The purpose of this study is to determine if microvascular tortuosity can be used as an imaging biomarker for the presence of tumor-associated angiogenesis
January 01, 2020	<a href="#">Tumor-Specific Endogenous Fe II -Activated, MRI-Guided Self-Targeting Gadolinium-Coordinated Theranostic Nanoplatforms for Amplification of ROS and Enhanced Chemodynamic Chemotherapy</a>	Low drug payload and lack of tumor-targeting for chemodynamic therapy (CDT) result in an insufficient reactive oxygen species (ROS) generation, which
January 01, 2020	<a href="#">“All-in-One” Silver Nanoprism Platform for Targeted Tumor Theranostics</a>	Designing a multifunctional theranostic nanoplat- form with optional therapeutic strategies is highly desirable to select the most suitable therapeuti

January 01, 2020	<a href="#">2,4-dienoyl-CoA reductase regulates lipid homeostasis in treatment-resistant prostate cancer</a>	Despite the clinical success of Androgen Receptor (AR)-targeted therapies, reactivation of AR signalling remains the main driver of castration-resistance
January 01, 2020	<a href="#">Evaluation of ductal carcinoma in situ grade via triple-modal molecular imaging of B7-H3 expression</a>	Ductal carcinoma in situ (DCIS) will account for 62,930 cases of breast cancer in 2019.
January 01, 2020	<a href="#">MT1-MMP-Activated Liposomes to Improve Tumor Blood Perfusion and Drug Delivery for Enhanced Pancreatic Cancer Therapy</a>	Promoting tumor angiogenesis effectively and specifically to resolve tumor-associated hypoperfusion holds promise for improving pancreatic cancer therapy
January 01, 2020	<a href="#">Multifunctional Nanoparticles for Multimodal Imaging-Guided Low-Intensity Focused Ultrasound/Immunosynergistic Retinoblastoma Therapy</a>	Retinoblastoma (RB) is prone to delayed diagnosis or treatment and has an increased likelihood of metastasizing.
January 01, 2020	<a href="#">High Frequency Spectral Ultrasound Imaging to Detect Metastasis in Implanted Biomaterial Scaffolds</a>	For most cancers, metastasis is the point at which disease is no longer curable.
January 01, 2020	<a href="#">Prostate tumor-derived GDF11 accelerates androgen deprivation therapy-induced sarcopenia</a>	Most prostate cancers depend on androgens for growth, and therefore, the mainstay treatment for advanced, recurrent, or metastatic prostate cancer is
January 01, 2020	<a href="#">CD105 is a prognostic marker and valid endothelial target for microbubble platforms in cholangiocarcinoma</a>	Purpose: The current treatment outcomes in cholangiocarcinoma are poor with cure afforded only by surgical extirpation.
January 01, 2020	<a href="#">Magnetic targeted near-infrared II PA/MR imaging guided photothermal therapy to trigger cancer immunotherapy</a>	Rationale: Photothermal therapy (PTT) alone is easy to cause cancer recurrence and fail to completely resist metastasis, yet recurrence and metastasis
January 01, 2020	<a href="#">Selective Alanine Transporter Utilization Creates a Targetable Metabolic Niche in Pancreatic Cancer</a>	Pancreatic ductal adenocarcinoma (PDAC) evolves a complex microenvironment comprised of multiple cell types, including pancreatic stellate cells (PSC)
January 01, 2020	<a href="#">Development of a chimeric Fab directed against human galectin-3 and validation as an immune-PET tracer for the sensitive in vivo imaging of thyroid cancer</a>	BACKGROUND The lack of facile methods for the specific characterization of malignant thyroid nodules makes the diagnosis of thyroid cancer (TC) challenging
January 01, 2020	<a href="#">Fluorescent Silica Nanoparticles to Label Metastatic Tumor Cells in Mineralized Bone Microenvironments</a>	During breast cancer bone metastasis, tumor cells interact with bone microenvironment components including inorganic minerals.
January 01, 2020	<a href="#">Pancreatic tropism of metastatic renal cell carcinoma</a>	Renal cell carcinoma (RCC) is characterized by a particularly broad metastatic swath, and, enigmatically, when the pancreas is a destination, the disease
January 01, 2020	<a href="#">Mitochondria as Target for Tumor Management of Hemangioendothelioma</a>	Aims: Hemangioendothelioma (HE) may be benign or malignant. EOMA cells are validated to study mechanisms in HE.
January 01, 2020	<a href="#">Use of Transabdominal Ultrasound for the Detection of Intra-Peritoneal Tumor Engraftment and Growth in Mouse Xenografts of Epithelial Ovarian Cancer</a>	Objective: To evaluate intraperitoneal (IP) tumor engraftment, metastasis and growth in a pre-clinical murine epithelial ovarian cancer (EOC) model system
January 01, 2020	<a href="#">Accelerating development of high-risk neuroblastoma patient-derived xenograft models for preclinical testing and personalised therapy</a>	Background: Predictive preclinical models play an important role in the assessment of new treatment strategies and as avatar models for personalised medicine
January 01, 2020	<a href="#">A Mitochondria Driven Metabolic Sensing Nanosystem for Oxygen Availability and Energy Blockade of Cancer</a>	A mitochondrial targeting and adenosine triphosphate (ATP) responsive nanosystem is designed and constructed to interfere with mitochondrial respiration

January 01, 2020	<a href="#">Xenograft Tumor Volume Measurement in Nude Mice: Estimation of 3D Ultrasound Volume Measurements Based on Manual Caliper Measurements</a>	Objectives: Volume measurement of subcutaneous xenograft tumors in nude mice models is an important metric to assess tumor growth or response to thera
January 01, 2020	<a href="#">Biodegradable rare earth fluorochloride nanocrystals for phototheranostics</a>	Rare earth (RE) doped inorganic nanocrystals have been demonstrated as efficient contrast agents for deep tissue shortwave-infrared (SWIR) imaging wit
January 01, 2020	<a href="#">TME-activatable theranostic nanoplatform with ATP burning capability for tumor sensitization and synergistic therapy</a>	Adenosine triphosphate (ATP), as a key substance for regulating tumor progression in the tumor microenvironemnt (TME), is an emerging target for tumor
January 01, 2020	<a href="#">Stromal Modulation and Treatment of Metastatic Pancreatic Cancer with Local Intraperitoneal Triple miRNA/siRNA Nanotherapy</a>	Nanomedicines achieve tumor-targeted delivery mainly through enhanced permeability and retention (EPR) effect following intravenous (IV) administratio
January 01, 2020	<a href="#">Acute kidney injury promotes development of papillary renal cell adenoma and carcinoma from renal progenitor cells</a>	Acute tissue injury causes DNA damage and repair processes involving increased cell mitosis and polyploidization, leading to cell function alterations
January 01, 2020	<a href="#">Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye Labeled Cargo</a>	We report a new approach to monitor drug release from nanocarriers via a paclitaxel–methylene blue conjugate (PTX-MB) with redox activity.
January 01, 2020	<a href="#">Photo-Electro Active Nanocomposite Silk Hydrogel for Spatiotemporal Controlled Release of Chemotherapeutics: An In Vivo Approach Towards Suppressing Solid Tumor Growth</a>	Conventional systemic chemotherapeutic regimens suffer from challenges such as non-specificity, shorter half-life, clearance of drugs and dose-limitin
January 01, 2020	<a href="#">Light-activated gold nanorod vesicles with NIR-II fluorescence and photoacoustic imaging performances for cancer theranostics</a>	Fluorescence (FL) and photoacoustic (PA) imaging in the second near infrared window (NIR-II FL and NIR-II PA) hold great promise for biomedical applic
January 01, 2020	<a href="#">Targeted nanobubbles carrying indocyanine green for ultrasound, photoacoustic and fluorescence imaging of prostate cancer</a>	Objective: To construct prostate-specific membrane antigen (PSMA)-targeting, indocyanine green (ICG)-loaded nanobubbles (NBs) for multimodal (ultrasou
January 01, 2020	<a href="#">The mechanism of cancer drug addiction in ALK-positive T-Cell lymphoma</a>	Rational new strategies are needed to treat tumors resistant to kinase inhibitors.
January 01, 2020	<a href="#">Glucose Oxidase-Instructed Traceable Self-Oxygenation/Hyperthermia Dually Enhanced Cancer Starvation Therapy</a>	Cancer theranostics based on glucose oxidase (GOx)-induced starvation therapy has got more and more attention in cancer management.
January 01, 2020	<a href="#">Sufficiency of CD40 activation and immune checkpoint blockade for T cell priming and tumor immunity</a>	Innate immune receptors such as toll-like receptors (TLRs) provide critical molecular links between innate cells and adaptive immune responses.
January 01, 2020	<a href="#">Programmable NIR II Photothermal Enhanced Starvation Primed Chemodynamic Therapy using Glucose Oxidase Functionalized Ancient Pigment Nanosheets</a>	Chemodynamic therapy (CDT) has attracted considerable attention recently, but the poor reaction kinetics restrict its practical utility in clinic.
January 01, 2020	<a href="#">Carcinogenetic initiation contributed by EpCAM+ cancer cells in orthotopic HCC models of immunocompetent and athymic mice</a>	Purpose: Overexpression of epithelial cell adhesion molecule (EpCAM) correlates with poor prognosis, therapeutic failure and early tumor recurrence in
January 01, 2020	<a href="#">Biodegradable Bi 2 O 2 Se Quantum Dots for Photoacoustic Imaging Guided Cancer Photothermal Therapy</a>	As new 2D layered nanomaterials, Bi2O2Se nanoplates have unique semiconducting properties that can benefit biomedical applications.

January 01, 2020	<a href="#">Molecular Engineered Squaraine Nanoprobe for NIR-II/Photoacoustic Imaging and Photothermal Therapy of Metastatic Breast Cancer</a>	Various squaraine dyes have been developed for biological imaging.
January 01, 2020	<a href="#">Coordination-induced exfoliation to monolayer Bi-anchored MnB 2 nanosheets for multimodal imaging-guided photothermal therapy of cancer</a>	Background: Rapid advance in biomedicine has recently vitalized the development of multifunctional two-dimensional (2D) nanomaterials for cancer thera
January 01, 2020	<a href="#">Mannose receptor (CD206) activation in tumor-associated macrophages enhances adaptive and innate antitumor immune responses</a>	Solid tumors elicit a detectable immune response including the infiltration of tumor-associated macrophages (TAMs).
January 01, 2020	<a href="#">PRMT1 promotes neuroblastoma cell survival through ATF5</a>	Aberrant expression of protein arginine methyltransferases (PRMTs) has been implicated in a number of cancers, making PRMTs potential therapeutic targ
January 01, 2020	<a href="#">Assessment of Metastatic and Reactive Sentinel Lymph Nodes with B7-H3-Targeted Ultrasound Molecular Imaging: A Longitudinal Study in Mouse Models</a>	Purpose: To explore the potential of B7-H3-targeted ultrasound molecular imaging (USMI) for longitudinal assessment and differentiation of metastatic
January 01, 2020	<a href="#">Impact of hypoxia on chemoresistance of mesothelioma mediated by the proton-coupled folate transporter, and preclinical activity of new anti-LDH-A compounds</a>	BACKGROUND: Expression of proton-coupled folate transporter (PCFT) is associated with survival of mesothelioma patients treated with pemetrexed, and i
January 01, 2020	<a href="#">Biodegradation-Mediated Enzymatic Activity-Tunable Molybdenum Oxide Nanourchins for Tumor-Specific Cascade Catalytic Therapy</a>	Recent advances in nanomedicine have facilitated the development of potent nanomaterials with intrinsic enzyme-like activities (nanozymes) for cancer
January 01, 2020	<a href="#">Stopping transformed cancer cell growth by rigidity sensing</a>	A common feature of cancer cells is the alteration of kinases and biochemical signalling pathways enabling transformed growth on soft matrices, wherea
January 01, 2020	<a href="#">Ultrasound and magnetic resonance imaging for group stratification and treatment monitoring in the transgenic adenocarcinoma of the mouse prostate model</a>	Background: The transgenic adenocarcinoma of the mouse prostate (TRAMP) is a widely used genetically engineered spontaneous prostate cancer model.
January 01, 2020	<a href="#">Bovine HDL and Dual Domain HDL-Mimetic Peptides Inhibit Tumor Develop- ment in Mice</a>	A growing body of literature supports the role of apolipoproteins present in HDL in the treatment of pro-inflamma- tory diseases including cancer.
January 01, 2020	<a href="#">Anti-G250 nanobody-functionalized nanobubbles targeting renal cell carcinoma cells for ultrasound molecular imaging</a>	Traditional imaging examinations have difficulty in identifying benign and malignant changes in renal masses.
January 01, 2020	<a href="#">Unique spectral signature of human cutaneous squamous cell carcinoma by photoacoustic imaging</a>	Cutaneous squamous cell carcinoma (cSCC) is a common skin cancer with metastatic potential.
January 01, 2020	<a href="#">DLX1008 (brolicizumab), a single-chain anti-VEGF-A antibody fragment with low picomolar affinity, leads to tumor involution in an in vivo model of Kaposi Sarcoma</a>	Kaposi Sarcoma (KS) is among the most angiogenic cancers in humans and an AIDS-defin- ing condition.
January 01, 2020	<a href="#">Ultra - small Pyropheophorbide - a Nanodots for Near - infrared Fluorescence/Photoacoustic Imaging-guided Photodynamic Therapy</a>	Rationale: Nanoparticles (NPs) that are rapidly eliminated from the body offer great potential in clinical test.
January 01, 2020	<a href="#">NIR/ROS Responsive Black Phosphorus QD Vesicles as Immuno- adjuvant Carrier for Specific Cancer Photodynamic Immunotherapy</a>	2D black phosphorus (BP) nanosheets and BP quantum dots (BPQD), as two main material styles of BP, are widely used in the biomedical filed.
January 01, 2020	<a href="#">Detection of Lung Tumor Progression in Mice by Ultrasound Imaging</a>	With ~1.6 million victims per year, lung cancer contributes tremendously to the worldwide burden of cancer.

November 01, 2019	<a href="#">Modulation of redox metabolism negates cancer-associated fibroblasts-induced treatment resistance in a heterotypic 3D culture platform of pancreatic cancer</a>	The complex interplay between cancer cells and their microenvironment remains a major challenge in the design and optimization of treatment strategies
November 01, 2019	<a href="#">Mitochondrial fragmentation, elevated mitochondrial superoxide and respiratory supercomplexes disassembly is connected with the tamoxifen-resistant phenotype of breast cancer cells</a>	Tamoxifen resistance remains a clinical obstacle in the treatment of hormone sensitive breast cancer.
November 01, 2019	<a href="#">Photothermal-pH-hypoxia responsive multifunctional nanoplatform for cancer photo-chemo therapy with negligible skin phototoxicity</a>	Highly specific and effective cancer phototherapy remains as a great challenge.
November 01, 2019	<a href="#">Laser-triggered polymeric lipoproteins for precision tumor penetrating theranostics</a>	Natural particles ranging from various cell membranes to nascent proteins are highly optimized for their specific functions in vivo and possess featur
November 01, 2019	<a href="#">Effects of gold nanoprism-assisted human PD-L1 siRNA on both gene down-regulation and photothermal therapy on lung cancer</a>	Gold nanoprisms (GNPs) have been broadly studied for the potential applications in both imaging and treatment on tumors due to their special character
October 01, 2019	<a href="#">Magnetic-responsive and targeted cancer nanotheranostics by PA/MR bimodal imaging-guided photothermally triggered immunotherapy</a>	While theranostic nanoparticle (TNP)-based photothermal therapy (PTT) exhibits prominent promise for cancer therapy, metastatic cancers remain one of
September 01, 2019	<a href="#">Inhibition of breast cancer proliferation and metastasis by strengthening host immunity with a prolonged oxygen-generating phototherapy hydrogel</a>	Hypoxia is a potent tumor microenvironmental (TME) factor promoting immunosuppression and metastatic progression.
September 01, 2019	<a href="#">LMO2 Confers Synthetic Lethality to PARP Inhibition in DLBCL</a>	Deficiency in DNA double-strand break (DSB) repair mechanisms has been widely exploited for the treatment of different malignances, including homologo
August 31, 2019	<a href="#">GRIM-19 over-expression represses the proliferation and invasion of orthotopically implanted hepatocarcinoma tumors associated with downregulation of Stat3 signaling</a>	The retinoid-interferon-induced mortality-19 (GRIM-19) gene has been identified as a negative regulator associated with tumor development.
August 01, 2019	<a href="#">Small-Molecule and CRISPR Screening Converge to Reveal Receptor Tyrosine Kinase Dependencies in Pediatric Rhabdoid Tumors</a>	Cancer is often seen as a disease of mutations and chromosomal abnormalities.
August 01, 2019	<a href="#">Combination PD-1 and PD-L1 Blockade Promotes Durable Neoantigen-Specific T Cell-Mediated Immunity in Pancreatic Ductal Adenocarcinoma</a>	Pancreatic ductal adenocarcinoma (PDA) is a lethal cancer resistant to immunotherapy.
March 01, 2019	<a href="#">Mild hyperthermia as a localized radiosensitizer for deep-seated tumors: investigation in an orthotopic prostate cancer model in mice</a>	OBJECTIVE:: Non-ablative or mild hyperthermia (HT) has been shown in preclinical (and clinical) studies as a localized radiosensitizer that enhances t
March 01, 2019	<a href="#">Data processing of 3D and 4D in-vivo electron paramagnetic resonance imaging co-registered with ultrasound. 3D printing as a registration tool</a>	We present the concept of image registration using ultrasound (US) and electron paramagnetic resonance (EPR) imaging and discuss the benefits of this
March 01, 2019	<a href="#">Multifunctional nanoplatform for photoacoustic imaging-guided combined therapy enhanced by CO induced ferroptosis</a>	A multifunctional CO/thermo/chemotherapy nanoplatform is here reported, which is composed of mesoporous carbon nanoparticles (MCN) as near infrared (N
February 28, 2019	<a href="#">Use of Antimetastatic SOD3-Mimetic Albumin as a Primer in Triple Negative Breast Cancer</a>	Of the deaths attributed to cancer, 90% are due to metastasis. Treatments that prevent or cure metastasis remain elusive.
February 01, 2019	<a href="#">Down-regulation of MYCN protein by CX-5461 leads to neuroblastoma tumor growth suppression</a>	Purpose: MYCN oncogene amplification is an independent predictor of poor prognosis in neuroblastoma.

February 01, 2019	<a href="#">Erythrocyte-cancer hybrid membrane-camouflaged melanin nanoparticles for enhancing photothermal therapy efficacy in tumors</a>	Cell membrane coating has emerged as an intriguing biomimetic strategy to endow nanomaterials with functions and properties inherent to source cells
February 01, 2019	<a href="#">Specific delivery of delta-5-desaturase siRNA via RNA nanoparticles supplemented with dihomo-γ-linolenic acid for colon cancer suppression</a>	We have previously demonstrated that DGLA treatment along with Delta-5-Desaturase (D5D) siRNA in various types of cancer cells enhances the formation
January 03, 2019	<a href="#">Abstract 2833: Epithelial cell adhesion molecule (EpCAM) is associated with prostate cancer progression and chemo-/radio-resistance in vitro and in vivo</a>	Prostate cancer (CaP) is the most common cancer in males in Australia which caused more than 3000 deaths in 2015.
January 01, 2019	<a href="#">Novel Oxygen-Deficient Zirconia (ZrO<sub>2-x</sub>) for Fluorescence/Photoacoustic Imaging-Guided Photothermal/Photodynamic Therapy for Cancer</a>	Theranostic nanoplatforms that integrate therapy and diagnosis in a single composite have become increasingly attractive in the field of precise and e
January 01, 2019	<a href="#">Effect of increasing liver blood flow on nanodrug clearance by the liver for enhanced antitumor therapy</a>	The clinical applications of particulate drug delivery systems have demonstrated limited treatment out- comes, which is largely attributable to the el
January 01, 2019	<a href="#">A spontaneously metastatic model of bladder cancer: imaging characterization</a>	Background: Spontaneously metastatic xenograft models of cancer are infrequent and the few that exist are resource intensive.
January 01, 2019	<a href="#">Radioembolization of Hepatocellular Carcinoma with Built-In Dosimetry: First in vivo Results with Uniformly-Sized, Biodegradable Microspheres Labeled with 188 Re</a>	A common form of treatment for patients with hepatocellular carcinoma (HCC) is transarterial radioembolization (TARE) with non-degradable glass or res
January 01, 2019	<a href="#">Collagenase Nanoparticles Enhance the Penetration of Drugs into Pancreatic Tumors</a>	Overexpressed extracellular matrix (ECM) in pancreatic ductal adenocarcinoma (PDAC) limits drug penetration into the tumor and is associated with poor
January 01, 2019	<a href="#">Intra-arterial EmboCept S® and DC Bead® effectively inhibit tumor growth of colorectal rat liver metastases</a>	Background: Intra-arterial therapy with embolics is established for the treatment of malignancies of the liver.
January 01, 2019	<a href="#">Efficient prostate cancer therapy with tissue-specific homing peptides identified by advanced phage display technology</a>	Selective targeting of drugs to tumor cells is a key goal in oncology.
January 01, 2019	<a href="#">pH/NIR-responsive semiconducting polymer nanoparticles for highly effective photoacoustic image guided chemo-photothermal synergistic therapy</a>	ABSTRAC T Multifunctional drug delivery nanoplatform (PDPP3T@PSNiAA NPs) based on NIR absorbing semiconducting polymer nanoparticles for pH/NIR light-
January 01, 2019	<a href="#">Platelet-Mimicking Biotaxis Targeting Vasculature-Disrupted Tumors for Cascade Amplification of Hypoxia-Sensitive Therapy</a>	Tumorous vasculature plays key roles in sustaining tumor growth.
January 01, 2019	<a href="#">Inhibiting Glutamine-Dependent mTORC1 Activation Ameliorates Liver Cancers Driven by β-Catenin Mutations</a>	Based on their lobule location, hepatocytes display differential gene expression, including pericentral hepatocytes that surround the central vein, wh
January 01, 2019	<a href="#">Imaging of the Mouse Lymphatic Sinus during Early Stage Lymph Node Metastasis Using Intranodal Lymphangiography with X-ray Micro-computed Tomography</a>	Purpose: Lymph node (LN) metastasis is detected prior to distant metastasis in many types of cancer.
January 01, 2019	<a href="#">eIF4A supports an oncogenic translation program in pancreatic ductal adenocarcinoma</a>	Pancreatic ductal adenocarcinoma (PDA) is a lethal malignancy with limited treatment options.
January 01, 2019	<a href="#">Endothelial CDS2 deficiency causes VEGFA-mediated vascular regression and tumor inhibition</a>	The response of endothelial cells to signaling stimulation is critical for vascular morphogenesis, homeostasis and function.

January 01, 2019	<a href="#">Hybrid Protein Nano Reactors Enable Simultaneous Increments of Tumor Oxygenation and Iodine 131 Delivery for Enhanced Radionuclide Therapy</a>	It is hard for current radionuclide therapy to render solid tumors desirable therapeutic efficacy owing to insufficient tumor targeted delivery of rad
January 01, 2019	<a href="#">Oxygenated theranostic nanoplatforms with intracellular agglomeration behavior for improving the treatment efficacy of hypoxic tumors</a>	Hypoxia plays vital roles in the development of tumor resistance against typical anticancer therapies and local reoxygenation has proved effective to
January 01, 2019	<a href="#">Verteporfin-Loaded Lipid Nanoparticles Improve Ovarian Cancer Photodynamic Therapy In Vitro and In Vivo</a>	Advanced ovarian cancer is the most lethal gynecological cancer, with a high rate of chemoresistance and relapse.
January 01, 2019	<a href="#">Fluorescent Silicon Nanorods-Based Nanotheranostic Agents for Multimodal Imaging-Guided Photothermal Therapy</a>	The utilization of diagnosis to guide/aid therapy procedures has shown great prospects in the era of personalized medicine along with the recognition
January 01, 2019	<a href="#">Photoacoustic and Ultrasound Dual-Mode Imaging via Functionalization of Recombinant Protein-Stabilized Microbubbles with Methylene Blue</a>	Contrast-enhanced photoacoustics and ultrasonics are complementary methods of bioimaging.
January 01, 2019	<a href="#">Localized Free Radicals Burst Triggered by NIR-II Light for Augmented Low-Temperature Photothermal Therapy</a>	As a novel treatment modality of tumors, hypothermal hyperthermia employed relatively lower temperature (
January 01, 2019	<a href="#">Chlorella-gold nanorods hydrogels generating photosynthesis-derived oxygen and mild heat for the treatment of hypoxic breast cancer</a>	Hypoxic tumors are rarely cured because their low oxygen environment restricts the cytotoxicity of many chemotherapeutics by blocking the production o
January 01, 2019	<a href="#">Nanozymes-Engineered Metal–Organic Frameworks for Catalytic Cascades-Enhanced Synergistic Cancer Therapy</a>	The efficiency of chemical intercommunication between enzymes in natural networks can be significantly enhanced by the organized catalytic cascades.
January 01, 2019	<a href="#">Hollow Cu<sub>2</sub>Se Nanozymes for Tumor Photothermal-Catalytic Therapy</a>	Tumor microenvironment (TME)-mediated cancer therapy, such as chemodynamic therapy (CDT) based on Fenton reaction, has attracted extensive attention i
January 01, 2019	<a href="#">Phase Change Materials Based Nanoparticles for Controlled Hypoxia Modulation and Enhanced Phototherapy</a>	Tumor hypoxia strengthens tumor resistance to different therapies especially oxygen involved strategies, such as photodynamic therapy (PDT).
January 01, 2019	<a href="#">Folate-Targeted and Oxygen/Indocyanine Green-Loaded Lipid Nanoparticles for Dual-Mode Imaging and Photo-sonodynamic/Photothermal Therapy of Ovarian Cancer in Vitro and in Vivo</a>	We have successfully fabricated versatile folate-targeted and oxygen/indocyanine green-loaded lipid nanoparticles (FA-OINPs) for dual-mode imaging-gui
January 01, 2019	<a href="#">Quantitative Proteomics of Th-MYCN Transgenic Mice Reveals Aurora Kinase Inhibitor Altered Metabolic Pathways and Enhanced ACADM To Suppress Neuroblastoma Progression</a>	Neuroblastoma is a neural crest-derived embryonal tumor and accounts for about 15% of all cancer deaths in children.
January 01, 2019	<a href="#">Precision Cancer Theranostic Platform by In Situ Polymerization in Perylene Diimide-Hybridized Hollow Mesoporous Organosilica Nanoparticles</a>	Phototheranostics refers to advanced photonics-mediated theranostic methods for cancer and includes imaging-guided photothermal/chemotherapy, photothe
January 01, 2019	<a href="#">Bioinspired lipoproteins-mediated photothermia remodels tumor stroma to improve cancer cell accessibility of second nanoparticles</a>	The tumor stromal microenvironments (TSM) including stromal cells and extracellular matrix (ECM) form an abominable barrier hampering nanoparticles ac
January 01, 2019	<a href="#">Organosilica-Based Hollow Mesoporous Bilirubin Nanoparticles for Antioxidation-Activated Self-Protection and Tumor-Specific Deoxygenation-Driven Synergistic Therapy</a>	A major concern about glucose oxidase (GOx)-mediated cancer starvation therapy is its ability to induce serious oxidative damage to normal tissues thr

January 01, 2019	<a href="#">α-Ketoglutarate links p53 to cell fate during tumour suppression</a>	The tumour suppressor TP53 is mutated in the majority of human cancers, and in over 70% of pancreatic ductal adenocarcinoma (PDAC) <sup>1,2</sup> .
January 01, 2019	<a href="#">Indocyanine Green–Coated Gold Nanoclusters for Photoacoustic Imaging and Photothermal Therapy</a>	Abstract Traditional oncology treatment modalities are often associated with a poor therapeutic index.
January 01, 2019	<a href="#">Tumor pH Responsive Albumin/Polyaniline Assemblies for Amplified Photoacoustic Imaging and Augmented Photothermal Therapy</a>	Tumor-microenvironment-responsive theranostics have great potential for precision diagnosis and effective treatment of cancer.
January 01, 2019	<a href="#">One-pot growth of triangular SnS nanopyramids for photoacoustic imaging and photothermal ablation of tumors</a>	Recently, metal sulfides have received great attention in biomedical applications due to their fascinating properties.
January 01, 2019	<a href="#">Research paper microbubble enhanced ultrasound for the antivasular treatment and monitoring of hepatocellular carcinoma</a>	Background and Objective: Hepatocellular carcinoma (HCC) is the most common primary liver malignancy, and its current management relies heavily on loc
January 01, 2019	<a href="#">Effects of Photodynamic Therapy with Redaporfin on Tumor Oxygenation and Blood Flow in a Lung Cancer Mouse Model</a>	Three photodynamic therapy (PDT) protocols with 15 min, 3 h and 72 h drug-to-light time intervals (DLIs) were performed using a bacteriochlorin named
January 01, 2019	<a href="#">1300 nm absorption two-acceptor semiconducting polymer nanoparticles for NIR-II photoacoustic imaging system guided NIR-II photothermal therapy</a>	1300 nm absorption SPNs were designed to realize in vivo NIR-II PTT treatment guided by commercial NIR-II PAI systems.
January 01, 2019	<a href="#">Lipid/PLGA Hybrid Microbubbles as a Versatile Platform for Noninvasive Image-Guided Targeted Drug Delivery</a>	Microbubbles (MBs) have recently emerged as promising theranostic carriers for ultrasound contrast imaging and drug delivery.
January 01, 2019	<a href="#">Mouse Model of Thyroid Cancer Progression and Dedifferentiation Driven by STRN-ALK Expression and Loss of p53: Evidence for the Existence of Two Types of Poorly Differentiated Carcinoma</a>	Thyroid tumor progression from well-differentiated cancer to poorly differentiated thyroid carcinoma (PDTC) and anaplastic thyroid carcinoma (ATC) inv
January 01, 2019	<a href="#">Tumor Microenvironment Responsive Shape-Reversal Self-Targeting Virus-Inspired Nanodrug for Imaging-Guided Near-Infrared-II Photothermal Chemotherapy</a>	Tumor microenvironment responsive multimodal synergistic theranostic strategies can significantly improve the therapeutic efficacy while avoiding seve
January 01, 2019	<a href="#">SDF-1-loaded PLGA nanoparticles for the targeted photoacoustic imaging and photothermal therapy of metastatic lymph nodes in tongue squamous cell carcinoma</a>	The combination of photothermal therapy and targeted chemotherapy can produce much greater cytotoxicity than chemotherapy.
January 01, 2019	<a href="#">A polymeric paste-drug formulation for intratumoral treatment of prostate cancer</a>	Objective: Focal therapy has emerged as a treatment option for low- to intermediate-risk localized prostate cancer (PCa) patients, to balance the risk
January 01, 2019	<a href="#">Porphyrin–palladium hydride MOF nanoparticles for tumor-targeting photoacoustic imaging-guided hydrogenothermal cancer therapy</a>	Hydrogen gas, which is an important energy resource, was recently discovered to have high advantage in the treatment of many diseases, but the current
January 01, 2019	<a href="#">Immuno-evolution of mouse pancreatic organoid isografts from preinvasive to metastatic disease</a>	Pancreatic ductal adenocarcinoma (PDA) has a highly immunosuppressive microenvironment, which is contributed by the complex interaction between cancer

January 01, 2019	<a href="#">Mussel-inspired functionalization of semiconducting polymer nanoparticles for amplified photoacoustic imaging and photothermal therapy</a>	A versatile and straightforward strategy for the encapsulation of semiconducting polymer nanoparticles (SPNs) using biocompatible polydopamine (PDA) a
January 01, 2019	<a href="#">Dual-labeled pertuzumab for multimodality image-guided ovarian tumor resection.</a>	Pertuzumab is clinically employed in the treatment of cancers over-expressing human epidermal growth factor receptor 2 (HER2).
January 01, 2019	<a href="#">Differential Diagnosis and Precision Therapy of Two Typical Malignant Cutaneous Tumors Leveraging Their Tumor Microenvironment: A Photomedicine Strategy</a>	Elevated hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) in biological tissues is generally recognized to be relevant to the carcinogenesis process that regulates the prolif
January 01, 2019	<a href="#">Cytosolic 5'-nucleotidase 1A is overexpressed in pancreatic cancer and mediates gemcitabine resistance by reducing intracellular gemcitabine metabolites</a>	Background: Cytosolic 5'-nucleotidase 1A (NT5C1A) dephosphorylates non-cyclic nucleoside monophosphates to produce nucleosides and inorganic phosphate
January 01, 2019	<a href="#">Development of a Human Photoacoustic Imaging Reporter Gene Using the Clinical Dye Indocyanine Green</a>	Purpose: To develop a photoacoustic imaging (PAI) reporter gene that has high translational potential.
January 01, 2019	<a href="#">Fluorinated Polyethylenimine to Enable Transmucosal Delivery of Photosensitizer Conjugated Catalase for Photodynamic Therapy of Orthotopic Bladder Tumors Postintravesical Instillation</a>	Photodynamic therapy (PDT) by insertion of an optical fiber into the bladder cavity has been applied in the clinic for noninvasive treatment of bladder
December 26, 2018	<a href="#">Integration of Polymerization and Biomineralization as a Strategy to Facilely Synthesize Nanotheranostic Agents</a>	Integration of biological macromolecules with inorganic materials via biomineralization has demonstrated great potential for development of nanother
December 22, 2018	<a href="#">IL-6-mediated cross-talk between human preadipocytes and ductal carcinoma in situ in breast cancer progression</a>	Background: The function of preadipocytes in the progression of early stage breast cancer has not been fully elucidated at the molecular level.
December 19, 2018	<a href="#">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</a>	The prolonged, gonadotoxic effect of chemotherapy can finally lead to infertility in female cancer survivors.
December 15, 2018	<a href="#">A Multimodal Molecular Imaging Study Evaluates Pharmacological Alteration of the Tumor Microenvironment to Improve Radiation Response</a>	Hypoxic zones in solid tumors contribute to radioresistance, and pharmacological agents that increase tumor oxygenation prior to radiation, including
December 14, 2018	<a href="#">Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging</a>	Nanoparticles are submicrometer in size and are used in a variety of ways in the biomedical field.
December 12, 2018	<a href="#">Multimodality cellular and molecular imaging of concomitant tumour enhancement in a syngeneic mouse model of breast cancer metastasis</a>	
December 12, 2018	<a href="#">Stemness marker ALDH1A1 promotes tumor angiogenesis via retinoic acid/HIF-1<math>\alpha</math>/VEGF signalling in MCF-7 breast cancer cells</a>	BACKGROUND: Aldehyde dehydrogenase 1A1 (ALDH1A1), a member of aldehyde dehydrogenase family, is a marker of stemness in breast cancer.
December 12, 2018	<a href="#">Chemodrug-Gated Biodegradable Hollow Mesoporous Organosilica Nanotheranostics for Multimodal Imaging-Guided Low-Temperature Photothermal Therapy/Chemotherapy of Cancer</a>	Noninvasive physical treatment with relatively low intensity stimulation and the development of highly efficient anticancer medical strategy are still
December 10, 2018	<a href="#">Species-dependent extracranial manifestations of a brain seeking breast cancer cell line</a>	Purpose Metastatic brain tumors pose a severe problem in the treatment of patients with breast carcinoma.
December 08, 2018	<a href="#">Evaluation of pancreatic tumor development in KPC mice using multi-parametric MRI</a>	Pancreatic ductal adenocarcinoma (PDA) is a fatal disease with very poor prognosis.

December 04, 2018	<a href="#">Up-regulation of FGF15/19 signaling promotes hepatocellular carcinoma in the background of fatty liver</a>	Background: Upregulated fibroblast growth factor 19 (FGF19) expression in human hepatocellular carcinoma (HCC) specimens is associated with tumor prog
December 04, 2018	<a href="#">RET, a Targetable Driver of Pancreatic Adenocarcinoma</a>	Pancreatic ductal adenocarcinoma (PDA) remains a deadly disease, affecting about 40,000 individuals in the United States annually.
November 25, 2018	<a href="#">C3HeB/FeJ Mice mimic many aspects of gene expression and pathobiological features of human hepatocellular carcinoma</a>	Hepatocellular carcinoma (HCC) remains a deadly cancer, underscoring the need for relevant preclinical models.
November 22, 2018	<a href="#">Conditional knockout of SHP2 in ErbB2 transgenic mice or inhibition in HER2-amplified breast cancer cell lines blocks oncogene expression and tumorigenesis</a>	Overexpression of the human epidermal growth factor receptor 2 (HER2) is the cause of HER2-positive breast cancer (BC).
November 19, 2018	<a href="#">Noninvasive quantification of oxygen saturation in the portal and hepatic veins in healthy mice and those with colorectal liver metastases using QSM MRI</a>	Purpose: This preclinical study investigated the use of QSM MRI to noninvasively measure venous oxygen saturation (SvO <sub>2</sub> ) in the hepatic and portal vei
November 12, 2018	<a href="#">Lestaurtinib is a potent inhibitor of anaplastic thyroid cancer cell line models</a>	Anaplastic thyroid cancer (ATC) is a rare and lethal human malignancy with no known effective therapies in the majority of cases.
November 09, 2018	<a href="#">Tumor cell invasion from the marginal sinus into extranodal veins during early-stage lymph node metastasis can be a starting point for hematogenous metastasis</a>	The primary control on the N–S zonation of the Southern Ocean is the wind-induced transport of the Antarctic Circumpolar Current (ACC).
November 01, 2018	<a href="#">Nonlinear ultrasound parameter to monitor cell death in cancer cell samples</a>	A scaling subtraction method was proposed to analyze the radio frequency data from cancer cell samples exposed to an anti-cancer drug and to estimate
November 01, 2018	<a href="#">Enhancing Checkpoint Inhibitor Therapy with Ultrasound Stimulated Microbubbles</a>	Checkpoint inhibitor (CI) immunotherapy is playing an increasingly prominent role in the treatment of cancer but is effective and durable in only a su
November 01, 2018	<a href="#">Remodeling Tumor-Associated Macrophages and Neovascularization Overcomes EGFR T790M -Associated Drug Resistance by PD-L1 Nanobody-Mediated Codelivery</a>	Precision medicine has made a significant breakthrough in the past decade.
October 23, 2018	<a href="#">Radiation treatment monitoring with DCE-US in CWR22 prostate tumor xenografts</a>	Background Longitudinal monitoring of potential radiotherapy treatment effects can be determined by dynamic contrast-enhanced ultrasound (DCE-US).
October 18, 2018	<a href="#">In Vivo Molecular Ultrasound Assessment of Glioblastoma Neovasculature with Endoglin-Targeted Microbubbles</a>	Objectives . Glioblastoma, as one of the most malignant cancer in the world, usually shows substantially increased angiogenesis.
October 15, 2018	<a href="#">Size-dependent Tumor Response to Photodynamic Therapy and Irinotecan Monotherapies Revealed by Longitudinal Ultrasound Monitoring in an Orthotopic Pancreatic Cancer Model</a>	Longitudinal monitoring of tumor size in vivo can provide important biological information about disease progression and treatment efficacy that is no
October 12, 2018	<a href="#">Sonodynamic Therapy on Intracranial Glioblastoma Xenografts Using Sinoporphyrin Sodium Delivered by Ultrasound with Microbubbles</a>	—Sonodynamic therapy (SDT) is a promising nonin-vasive method for cancer treatment.
October 10, 2018	<a href="#">Self-Supplied Tumor Oxygenation through Separated Liposomal Delivery of H<sub>2</sub>O<sub>2</sub> and Catalase for Enhanced Radio-Immunotherapy of Cancer</a>	The recent years have witnessed the blooming of cancer immunotherapy, as well as their combinational use together with other existing cancer treatment

October 04, 2018	<a href="#">Combination Therapy with DETA/NO and Clopidogrel Inhibits Metastasis in Murine Mammary Gland Cancer Models via Improved Vasoprotection</a>	Vascular endothelial dysfunction and platelet activation play a key role in tumor metastasis, and therefore both of these processes are considered imp
October 01, 2018	<a href="#">Growth and in vivo stresses traced through tumor mechanics enriched with predator-prey cells dynamics</a>	Mechanical stress accumulating during growth in solid tumors plays a crucial role in the tumor mechanobiology.
September 01, 2018	<a href="#">Tumor inhibitory effects of intravesical Ganoderma lucidum instillation in the syngeneic orthotopic MB49/C57 bladder cancer mice model</a>	Ethnopharmacological relevance: Ganoderma lucidum (GL) has been traditionally used in oriental medicine as superior health tonic, and there are numero
September 01, 2018	<a href="#">Biomimetic O<sub>2</sub>-Evolving metal-organic framework nanoplatform for highly efficient photodynamic therapy against hypoxic tumor</a>	Improving the supply of O <sub>2</sub> and the circulation lifetime of photosensitizers for photodynamic therapy (PDT) in vivo would be a promising approach to el
September 01, 2018	<a href="#">Combined application of Indocyanine green (ICG) and laser lead to targeted tumor cell destruction</a>	Purpose: Precise excision of neuroblastoma is challenging, especially when tumors adhere to vital structures.
August 24, 2018	<a href="#">Alterations in Sod2-induced oxidative stress affect endocrine cancer progression</a>	Although significant advances have been made in understanding the genetics of endocrine tumors, cellular physiology is relatively understudied as a de
July 24, 2018	<a href="#">Four-class tumor staging for early diagnosis and monitoring of murine pancreatic cancer using magnetic resonance and ultrasound</a>	Background.
June 19, 2018	<a href="#">The oncolytic Adenovirus XVir-N-31 as a novel therapy in muscle-invasive bladder cancer</a>	Muscle invasive bladder cancer represents approximately 25% of patients diagnosed with bladder cancer and carries a significant risk of death.
June 08, 2018	<a href="#">Deletion of Rap1b, but not Rap1a or Epac1, reduces PKA-mediated thyroid cancer</a>	Background: Thyroid cancer is an emerging health problem in the United States and Worldwide.
May 28, 2018	<a href="#">A Tumor Vascular-Targeted Interlocking Trimodal Nanosystem That Induces and Exploits Hypoxia</a>	Vascular-targeted photodynamic therapy (VTP) is a recently approved strategy for treating solid tumors.
May 19, 2018	<a href="#">Treatment of SEC62 over-expressing tumors by Thapsigargin and Trifluoperazine</a>	Treatment with analogues of the SERCA-inhibitor Thapsigargin is a promising new approach for a wide variety of cancer entities.
May 11, 2018	<a href="#">Impact of Age on Disease Progression and Microenvironment in Oral Cancer</a>	Despite the recognized link between aging and cancer, most preclinical studies in experimental tumor models are conducted with 6- to 8-wk-old rodents.
May 01, 2018	<a href="#">A TRAMP-derived orthotopic prostate syngeneic (TOPS) cancer model for investigating anti-tumor treatments</a>	Background: Patients with advanced prostate cancer have limited curative options, therefore new treatments are needed.
May 01, 2018	<a href="#">Histidine-rich glycoprotein-induced vascular normalization improves EPR-mediated drug targeting to and into tumors</a>	Tumors are characterized by leaky blood vessels, and by an abnormal and heterogeneous vascular network.
April 23, 2018	<a href="#">Monitoring circulating prostate cancer cells by in vivo flow cytometry assesses androgen deprivation therapy on metastasis</a>	It remains controversial whether surgical castration prolongs survival rate and improves therapy prospects in patients suffering from prostate cancer.
April 22, 2018	<a href="#">Biomimetic nanoparticles delivered hedgehog pathway inhibitor to modify tumour microenvironment and improved chemotherapy for pancreatic carcinoma</a>	The unique tumour microenvironment (TM) of pancreatic ductal adenocarcinoma (PDA) including highly desmoplastic ECM and low tumour perfusion supports

April 22, 2018	<a href="#">Cranial irradiation increases tumor growth in experimental breast cancer brain metastasis</a>	© 2018 John Wiley & Sons, Ltd.
April 20, 2018	<a href="#">Abstract 3109: Ultrasound-mediated delivery and distribution of polymeric nanoparticles in the normal brain parenchyma and melanoma metastases</a>	The blood-brain barrier (BBB) prevents the passage of nearly all drugs into the brain, hindering brain cancer treatment.
April 20, 2018	<a href="#">Magnetic resonance and photoacoustic imaging of brain tumor mediated by mesenchymal stem cell labeled with multifunctional nanoparticle introduced via carotid artery injection</a>	OBJECTIVE: To evaluate the feasibility of visualizing bone marrow-derived human mesenchymal stem cells (MSCs) labeled with a gold-coated magnetic reso
April 19, 2018	<a href="#">Quantifying solid stress and elastic energy from excised or in situ tumors</a>	Solid stress, distinct from both tissue stiffness and fluid pressure, is a mechanical stress that is often elevated in both murine and human tumors.
April 07, 2018	<a href="#">Utilizing High Resolution Ultrasound to Monitor Tumor Onset and Growth in Genetically Engineered Pancreatic Cancer Models</a>	The LSL-KrasG12D/+; LSL-Trp53R172H/+; Pdx-1-Cre (KPC) mouse model represents an established and frequently used transgenic model to evaluate novel the
April 06, 2018	<a href="#">Radiotherapy-Sensitized Tumor Photothermal Ablation Using <math>\gamma</math>-Polyglutamic Acid Nanogels Loaded with Polypyrrole</a>	Development of versatile nanoscale platforms for cancer diagnosis and therapy is of great importance for applications in translational medicine.
April 01, 2018	<a href="#">A Yolk-Shell Nanoplatform for Gene-Silencing-Enhanced Photolytic Ablation of Cancer</a>	Noninvasive near infrared (NIR) light responsive therapy is a promising cancer treatment modality; however, some inherent drawbacks of conventional ph
April 01, 2018	<a href="#">The combined therapeutic effects of iodine 131-labeled multifunctional copper sulfide-loaded microspheres in treating breast cancer</a>	Compared to conventional cancer treatment, combination therapy based on well-designed nanoscale platforms may offer an opportunity to eliminate tumors
March 01, 2018	<a href="#">Deep Tumor Penetrating Bioparticulates Inspired Burst Intracellular Drug Release for Precision Chemo-Phototherapy</a>	The relevance of personalized medicine has inspired research for individually concerted diagnosis and therapy.
March 01, 2018	<a href="#">Thyroid-Specific PPAR<math>\gamma</math> Deletion Is Benign in the Mouse</a>	Peroxisome proliferator-activated receptor $\gamma$ (PPAR $\gamma$ ) is widely expressed at low levels and regulates many physiological processes.
February 23, 2018	<a href="#">MicroRNA-378 enhances radiation response in ectopic and orthotopic implantation models of glioblastoma</a>	Glioblastoma multiforme (GBM) is the most common and highly malignant primary brain tumor, which is virtually incurable due to its therapeutic resista
February 23, 2018	<a href="#">Primary Immunoprevention of Epithelial Ovarian Carcinoma by Vaccination against the Extracellular Domain of Anti-Müllerian Hormone Receptor II</a>	Epithelial ovarian carcinoma (EOC) is the most prevalent form of ovarian cancer in the United States, representing approximately 85% of all cases and
February 13, 2018	<a href="#">Multi-modality photoacoustic tomography, ultrasound, and light sheet microscopy for volumetric tumor margin detection</a>	Current methods for breast tumor margin detection are invasive, time consuming, and typically result in a reoperative rate of over 25%.
February 01, 2018	<a href="#">Biomimetic Copper Sulfide for Chemo-Radiotherapy: Enhanced Uptake and Reduced Efflux of Nanoparticles for Tumor Cells under Ionizing Radiation</a>	Combined chemo-radiotherapy is one of most widely applied treatments for clinical cancer therapy.
January 31, 2018	<a href="#">Design of Phase-Changeable and Injectable Alginate Hydrogel for Imaging-Guided Tumor Hyperthermia and Chemotherapy</a>	The objective of the present study was to construct an alginate (AG)-based phase-changeable and injectable hydrogel for imaging-guided tumor hyperther

January 18, 2018	<a href="#">The novel TRAIL-receptor agonist APG350 exerts superior therapeutic activity in pancreatic cancer cells</a>	Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) has raised attention as a novel anticancer therapeutic as it induces apoptosis prefer
January 01, 2018	<a href="#">[ASAP] Gadolinium Metallofullerene-Polypyrrole Nanoparticles for Activatable Dual-Modal Imaging-Guided Photothermal Therapy</a>	Accurate diagnosis of tumor is promising to guide photothermal therapy (PTT) for efficacious tumor ablation with minimal damage to healthy tissues.
January 01, 2018	<a href="#">Multi-modal characterization of vasculature and nanoparticle accumulation in five tumor xenograft models</a>	Preclinical research has demonstrated that nanoparticles and macromolecules can accumulate in solid tumors due to the enhanced permeability and retent
January 01, 2018	<a href="#">Photoacoustic imaging of integrin-overexpressing tumors using a novel ICG-based contrast agent in mice</a>	PhotoAcoustic Imaging (PAI) is a biomedical imaging modality currently under evaluation in preclinical and clinical settings.
January 01, 2018	<a href="#">Tumour vascular shutdown and cell death following ultrasound-microbubble enhanced radiation therapy</a>	High-dose radiotherapy effects are regulated by acute tumour endothelial cell death followed by rapid tumour cell death instead of canonical DNA break
January 01, 2018	<a href="#">Role of Acid Sphingomyelinase and Ceramide in Mechano-Acoustic Enhancement of Tumor Radiation Responses</a>	Background: High-dose radiotherapy (>8-10 Gy) causes rapid endothelial cell death via acid sphingomyelinase (ASMase)-induced ceramide production, resu
January 01, 2018	<a href="#">Nuclear factor 90 promotes angiogenesis by regulating HIF-1<math>\alpha</math>/VEGF-A expression through the PI3K/Akt signaling pathway in human cervical cancer article</a>	© 2018 The Author(s).
January 01, 2018	<a href="#">Targeting the NRG1/HER3 pathway in tumor cells and cancer-associated fibroblasts with an anti-neuregulin 1 antibody inhibits tumor growth in pre-clinical models of pancreatic cancer</a>	Neuregulin 1 (NRG1), a ligand for HER3 and HER4 receptors, is secreted by both pancreatic tumor cells (PC) and cancer-associated fibroblasts (CAFs), t
January 01, 2018	<a href="#">Preparation and Imaging Investigation of Dual-targeted C3F8-filled PLGA Nanobubbles as a Novel Ultrasound Contrast Agent for Breast Cancer</a>	Molecularly-targeted contrast enhanced ultrasound (US) imaging is a promising imaging strategy with large potential for improving diagnostic accuracy
January 01, 2018	<a href="#">Breast cancer cell-derived exosomes and macrophage polarization are associated with lymph node metastasis</a>	Crosstalk between breast cancer and macrophages has potential implications for tumor metastasis.
January 01, 2018	<a href="#">Semi-Automated Segmentation of the Tumor Vasculature in Contrast-Enhanced Ultrasound Data</a>	The vascular architecture in tumors contains relevant information for tumor classification and evaluation of therapy responses.
January 01, 2018	<a href="#">Therapy-educated mesenchymal stem cells enrich for tumor initiating cells</a>	Stromal cells residing in the tumor microenvironment contribute to the development of therapy resistance.
January 01, 2018	<a href="#">A novel mouse model of human prostate cancer to study intraprostatic tumor growth and the development of lymph node metastases</a>	BACKGROUND: In this study, we aimed to establish a versatile in vivo model of prostate cancer, which adequately mimics intraprostatic tumor growth, an
January 01, 2018	<a href="#">Preoperative measurement of cutaneous melanoma and nevi thickness with photoacoustic imaging</a>	Photoacoustic imaging (PAI) is an emerging biomedical imaging technology, which can potentially be used in the clinic to preoperatively measure melano
January 01, 2018	<a href="#">Phosphatidylserine targeted single-walled carbon nanotubes for photothermal ablation of bladder cancer</a>	© 2017 IOP Publishing Ltd.
January 01, 2018	<a href="#">Thy1-Targeted Microbubbles for Ultrasound Molecular Imaging of Pancreatic Ductal Adenocarcinoma</a>	Purpose: To engineer a dual human and murine Thy1-binding single-chain-antibody ligand (Thy1-scFv) for contrast microbubble-enhanced ultrasound mole

January 01, 2018	<a href="#">Photoacoustic Imaging as an Early Biomarker of Radio Therapeutic Efficacy in Head and Neck Cancer</a>	The negative impact of tumor hypoxia on radiotherapeutic efficacy is well recognized.
January 01, 2018	<a href="#">Thyroid Cancer Detection by Ultrasound Molecular Imaging with SHP2-Targeted Perfluorocarbon Nanoparticles</a>	Background .
January 01, 2018	<a href="#">Ultrasound Doppler as an Imaging Modality for Selection of Murine 4T1 Breast Tumors for Combination Radiofrequency Hyperthermia and Chemotherapy</a>	Noninvasive radiofrequency-induced (RF) hyperthermia has been shown to increase the perfusion of chemotherapeutics and nanomaterials through cancer ti
January 01, 2018	<a href="#">Degradable rhenium trioxide nanocubes with high localized surface plasmon resonance absorbance like gold for photothermal theranostics</a>	The applications of inorganic theranostic agents in clinical trials are generally limited to their innate non-biodegradability and potential long-term
January 01, 2018	<a href="#">MYC-family protein overexpression and prominent nucleolar formation represent prognostic indicators and potential therapeutic targets for aggressive high-MKI neuroblastomas: A report from the children's oncology group</a>	© Niemas-Teshiba et al.
January 01, 2018	<a href="#">Au-PLGA Hybrid Nanoparticles with Catalase-Mimicking and near-Infrared Photothermal Activities for Photoacoustic Imaging-Guided Cancer Therapy</a>	© 2018 American Chemical Society. Imaging-guided diagnosis and therapy has been highlighted in the area of nanomedicines.
January 01, 2018	<a href="#">A catalase-loaded hierarchical zeolite as an implantable nanocapsule for ultrasound-guided oxygen self-sufficient photodynamic therapy against pancreatic cancer</a>	Photodynamic therapy (PDT) is an alternative strategy for treating pancreatic cancer (PC) in clinics.
January 01, 2018	<a href="#">Selective cancer treatment via photodynamic sensitization of hypoxia-responsive drug delivery</a>	The precise and selective delivery of chemodrugs into tumors represents a critical requirement for anti- cancer therapy.
January 01, 2018	<a href="#">Hypoxia-specific therapeutic agents delivery nanotheranostics: A sequential strategy for ultrasound mediated on-demand tritherapies and imaging of cancer</a>	The hypoxic microenvironment induced by sonodynamic therapy (SDT) via sonochemical oxygen consumption usually triggered tumor resistance to SDT, impeded
January 01, 2018	<a href="#">Synthesis of Hollow Biomineralized CaCO<sub>3</sub>-Polydopamine Nanoparticles for Multimodal Imaging-Guided Cancer Photodynamic Therapy with Reduced Skin Photosensitivity</a>	The development of activatable nanoplatfoms to simultaneously improve diagnostic and therapeutic performances while reducing side effects is highly a
January 01, 2018	<a href="#">Sensitization of Hypoxic Tumors to Radiation Therapy Using Ultrasound-Sensitive Oxygen Microbubbles</a>	Purpose: Much of the volume of solid tumors typically exists in a chronically hypoxic microenvironment that has been shown to result in both chemother
January 01, 2018	<a href="#">Early assessment of tumor response to radiation therapy using high-resolution quantitative microvascular ultrasound imaging</a>	Measuring changes in tumor volume using anatomical imaging weeks to months post radiation therapy (RT) is currently the clinical standard for indicati
January 01, 2018	<a href="#">Molecular imaging of tumor photoimmunotherapy: Evidence of photosensitized tumor necrosis and hemodynamic changes</a>	Near-infrared photoimmunotherapy (NIR PIT) employs the photoabsorbing dye IR700 conjugated to antibodies specific for cell surface epidermal growth fa
January 01, 2018	<a href="#">Bacteria-like mesoporous silica-coated gold nanorods for positron emission tomography and photoacoustic imaging-guided chemo-photothermal combined therapy</a>	Mesoporous silica nanoshell (MSN) coating has been demonstrated as a versatile surface modification strategy for various kinds of inorganic functional
January 01, 2018	<a href="#">Biodegradable Hollow Mesoporous Organosilica Nanotheranostics for Mild Hyperthermia-Induced Bubble-Enhanced Oxygen-Sensitized Radiotherapy</a>	Alleviation of tumor hypoxia has been the premise for improving the effectiveness of radiotherapy, which hinges upon the advanced delivery and rapid r
January 01, 2018	<a href="#">One-pot synthesis of pH-responsive charge-switchable PEGylated nanoscale coordination polymers for improved cancer therapy</a>	Nanoscale coordination polymers (NCPs) are promising nanomedicine platforms featured with biodegradability and versatile functionalities.

January 01, 2018	<a href="#">In vitro and in vivo evaluation of etoposide - silk wafers for neuroblastoma treatment</a>	High-risk neuroblastoma requires surgical resection and multi-drug chemotherapy.
January 01, 2018	<a href="#">Acidic pH-responsive polymer nanoparticles as a TLR7/8 agonist delivery platform for cancer immunotherapy</a>	Synthetic imidazoquinoline-based toll-like receptor (TLR) 7/8 bi-specific agonists are promising vaccine adjuvants that can induce maturation of dendr
January 01, 2018	<a href="#">Perfluorooctyl bromide &amp; indocyanine green co-loaded nanoliposomes for enhanced multimodal imaging-guided phototherapy</a>	As a highly biocompatible NIR dye, indocyanine green (ICG) has been widely explored for cancer treatment due to its various energy level transition pa
January 01, 2018	<a href="#">Endoglin targeted contrast enhanced ultrasound imaging in hepatoblastoma xenografts</a>	Angiogenesis is required for the growth of hepa- toblastoma (HB).
January 01, 2018	<a href="#">Tumor Evolution and Drug Response in Patient-Derived Organoid Models of Bladder Cancer</a>	Bladder cancer is the fifth most prevalent cancer in the U.S., yet is understudied, and few laboratory models exist that reflect the biology of the hu
January 01, 2018	<a href="#">Generation of multiparametric MRI maps by using Gd-labelled- RBCs reveals phenotypes and stages of murine prostate cancer</a>	Prostate Cancer (PCa) is the second most common and fifth cause of cancer-related mortality in males in Western Countries.
January 01, 2018	<a href="#">Chemotherapy and Radiofrequency-Induced Mild Hyperthermia Combined Treatment of Orthotopic Pancreatic Ductal Adenocarcinoma Xenografts</a>	Patients with pancreatic ductal adenocarcinomas (PDAC) have one of the poorest survival rates of all cancers.
January 01, 2018	<a href="#">Facile fabrication of highly photothermal-effective albumin-assisted gold nanoclusters for treating breast cancer</a>	Gold nanoclusters (AuNCs) have been considered to be a promising candidate for hyperthermia-based anticancer therapy.
January 01, 2018	<a href="#">2D Ultrathin MXene-Based Drug-Delivery Nanoplatform for Synergistic Photothermal Ablation and Chemotherapy of Cancer</a>	Two-dimensional (2D) MXenes, as a new 2D functional material nanosystem, have been extensively explored for broad applications.
January 01, 2018	<a href="#">Unfavorable effect of calcitriol and its low-calcemic analogs on metastasis of 4T1 mouse mammary gland cancer</a>	Low vitamin D status is considered as a risk factor for breast cancer and has prognostic significance.
January 01, 2018	<a href="#">Anti-angiogenic drug scheduling optimisation with application to colorectal cancer</a>	Bevacizumab (bvz) is a first choice anti-angiogenic drug in oncology and is primarily administered in combination with chemotherapy.
January 01, 2018	<a href="#">Serological biomarkers associate ultrasound characteristics of steatohepatitis in mice with liver cancer</a>	Banana is the common name for herbaceous plants of the genus Musa and for the fruit they produce. It is one of the oldest cultivated plants.
January 01, 2018	<a href="#">Motion model ultrasound localization microscopy for preclinical and clinical multiparametric tumor characterization</a>	Super-resolution imaging methods promote tissue characterization beyond the spatial resolution limits of the devices and bridge the gap between histop
January 01, 2018	<a href="#">An Easy-to-Fabricate Clearable CuS-Superstructure-Based Multifunctional Theranostic Platform for Efficient Imaging Guided Chemo-Photothermal Therapy</a>	Despite drug delivery systems (DDSs) have been receiving ever-increasing attention, development of a simple, effective, sensitive and clearable drug d
January 01, 2018	<a href="#">Natural antibody against neuroblastoma of TH-MYCN transgenic mice does not correlate with spontaneous regression</a>	The mechanism underlying the spontaneous regression of neuroblastoma is unclear.
January 01, 2018	<a href="#">Complement 5a stimulates macrophage polarization and contributes to tumor metastases of colon cancer</a>	Inflammatory cells such as macrophages can play a pro-tumorigenic role in the tumor stroma.

January 01, 2018	<a href="#">Ultrasound beam steering of oxygen nanobubbles for enhanced bladder cancer therapy</a>	New intravesical treatment approaches for bladder cancer are needed as currently approved treatments show several side effects and high tumor recurrence
January 01, 2018	<a href="#">Superselective Drug Delivery Using Doxorubicin-Encapsulated Liposomes and Ultrasound in a Mouse Model of Lung Metastasis Activation</a>	Conventional treatment of lymph node metastasis involves dissection of the tumor and regional lymph nodes, but this may cause activation of latent metastases
January 01, 2018	<a href="#">Disseminated injection of vincristine-loaded silk gel improves the suppression of neuroblastoma tumor growth</a>	Background: Advanced-stage neuroblastoma patients require multiagent chemotherapy.
January 01, 2018	<a href="#">Iodinated Echogenic Glycol Chitosan Nanoparticles for X-ray CT/US Dual Imaging of Tumor</a>	Development of biopolymer-based imaging agents which can access rapidly and provide detailed information about the diseases has received much attention
January 01, 2018	<a href="#">Visualizing the effects of metformin on tumor growth, vascularity, and metabolism in head and neck cancer</a>	© 2018 John Wiley & Sons A/S.
January 01, 2018	<a href="#">Photoacoustic imaging of tumour vascular permeability with indocyanine green in a mouse model</a>	Background: We analysed the haemodynamics of indocyanine green (ICG) in mouse organs and tumours and evaluated responses to anti-angiogenic agents in
January 01, 2018	<a href="#">Perfusion Computer Tomography Assessment of the Effect of Angiotensin II On Blood Flow Distribution in Rabbits with Intrarenal VX2 Tumors</a>	Background/Aims: Unlike other organs, which only have one set of capillary network, the renal microvasculature consists of two sets of capillary network
January 01, 2018	<a href="#">Development and evaluation of a CEACAM6-targeting theranostic nanomedicine for photoacoustic-based diagnosis and chemotherapy of metastatic cancer</a>	Metastasis is the leading cause of cancer-related deaths.
January 01, 2018	<a href="#">A laser-activated multifunctional targeted nanoagent for imaging and gene therapy in a mouse xenograft model with retinoblastoma Y79 cells</a>	Retinoblastoma (RB) is the most common intraocular malignancy of childhood that urgently needs early detection and effective therapy methods.
January 01, 2018	<a href="#">Generation and testing of clinical-grade exosomes for pancreatic cancer</a>	Exosomes are extracellular vesicles produced by all cells with a remarkable ability to efficiently transfer genetic material, including exogenously
January 01, 2018	<a href="#">MiR-301a-3p Suppresses Estrogen Signaling by Directly Inhibiting ESR1 in ER<math>\alpha</math> Positive Breast Cancer.</a>	BACKGROUND/AIMS MiR-301a-3p is an oncogenic miRNA whose expression is associated with tumor development, metastases and overall poor prognosis.
December 27, 2017	<a href="#">In Vitro and In Vivo Comparison of Gemcitabine and the Gemcitabine Analog 1-(2'-deoxy-2'-fluoroarabinofuranosyl) Cytosine (FAC) in Human Orthotopic and Genetically Modified Mouse Pancreatic Cancer Models</a>	Purpose: Although gemcitabine is a mainstay of pancreatic cancer therapy, it is only moderately effective, and it would be desirable to measure drug uptake
December 17, 2017	<a href="#">Validation of Bevacizumab Therapy Effect on Colon Cancer Subtypes by Using Whole Body Imaging in Mice</a>	Purpose: <a href="#">Preclinical imaging</a> offers a useful tool for monitoring cancer
December 04, 2017	<a href="#">Altering calcium influx for selective destruction of breast tumor</a>	BACKGROUND: Human triple-negative breast cancer has limited therapeutic choices. Breast tumor cells have depolarized plasma membrane potential.
December 01, 2017	<a href="#">Contrast enhanced ultrasound imaging can predict vascular-targeted photodynamic therapy induced tumor necrosis in small animals</a>	Aims To evaluate the accuracy of contrast-enhanced ultrasound (CEUS) for monitoring tumor necrosis following WST-11 vascular targeted photodynamic therapy
November 24, 2017	<a href="#">NH<sub>4</sub>HCO<sub>3</sub> gas-generating liposomal nanoparticle for photoacoustic imaging in breast cancer</a>	In this study, we have developed a biodegradable nanomaterial for photoacoustic imaging (PAI).

November 02, 2017	<a href="#">NOTCH3 regulates stem-to-mural cell differentiation in infantile hemangioma</a>	Infantile hemangioma (IH) is a vascular tumor that begins with rapid vascular proliferation shortly after birth, followed by vascular involution in ea
November 01, 2017	<a href="#">mTORC1 Couples Nucleotide Synthesis to Nucleotide Demand Resulting in a Targetable Metabolic Vulnerability</a>	The mechanistic target of rapamycin complex 1 (mTORC1) supports proliferation through parallel induction of key anabolic processes, including protein,
October 05, 2017	<a href="#">A cerebellar window for intravital imaging of normal and disease states in mice</a>	The cerebellum is a prominent part of the vertebrate hindbrain that is critically involved in the regulation of important body functions such as movem
October 05, 2017	<a href="#">Fibroblast activation protein augments progression and metastasis of pancreatic ductal adenocarcinoma</a>	Pancreatic ductal adenocarcinomas (PDAs) are desmoplastic and can undergo epithelial-to-mesenchymal transition to confer metastasis and chemoresistanc
September 26, 2017	<a href="#">Targeting CXCR4-dependent immunosuppressive Ly6C low monocytes improves antiangiogenic therapy in colorectal cancer</a>	Antiangiogenic therapy with antibodies against VEGF (bevacizumab) or VEGFR2 (ramucirumab) has been proven efficacious in colorectal cancer (CRC) patie
August 06, 2017	<a href="#">Radiolabeled pertuzumab for imaging of human epidermal growth factor receptor 2 expression in ovarian cancer</a>	© 2017, Springer-Verlag Berlin Heidelberg.
August 01, 2017	<a href="#">Measuring Absolute Blood Perfusion in Mice Using Dynamic Contrast-Enhanced Ultrasound</a>	We investigated the feasibility of estimating absolute tissue blood perfusion using dynamic contrast-enhanced ultrasound (CEUS) imaging in mice.
July 01, 2017	<a href="#">Cabozantinib Eradicates Advanced Murine Prostate Cancer by Activating Antitumor Innate Immunity</a>	Several kinase inhibitors that target aberrant signaling pathways in tumor cells have been deployed in cancer therapy.
July 01, 2017	<a href="#">Drug "Pent-Up" in Hollow Magnetic Prussian Blue Nanoparticles for NIR-Induced Chemo-Photothermal Tumor Therapy with Trimodal Imaging</a>	The study reports a biocompatible smart drug delivery system based on a doxorubicin (DOX) blending phase-change material of 1-pentadecanol loaded holl
July 01, 2017	<a href="#">Dielectric properties of the normal and malignant breast tissues in xenograft mice at low frequencies (100 Hz–1 MHz)</a>	Previous studies have shown that dielectric properties of biological tissues can be imaged at high frequencies (50 MHz–20 GHz) to detect abnormalities
June 01, 2017	<a href="#">Lanthanide-integrated supramolecular polymeric nanoassembly with multiple regulation characteristics for multidrug-resistant cancer therapy</a>	Cancer treatment can in principle be enhanced by the synergistic effects of chemo- and nucleic acid-based combination therapies but the lack of effici
May 31, 2017	<a href="#">Marriage of Albumin–Gadolinium Complexes and MoS 2 Nanoflakes as Cancer Theranostics for Dual-Modality Magnetic Resonance/Photoacoustic Imaging and Photothermal Therapy</a>	The construction of safe and stable theranostics is beneficial to realize simultaneous cancer diagnosis and treatment.
May 15, 2017	<a href="#">A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers</a>	An effective cancer blood biomarker screening strategy must distinguish aggressive from nonaggressive tumors at an early, intervenable time.
May 04, 2017	<a href="#">Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry</a>	Prostate specific membrane antigen (PSMA) targeted microbubbles (MBs) were developed using bioorthogonal chemistry.
May 01, 2017	<a href="#">Orthogonal near-infrared upconversion co-regulated site-specific O2 delivery and photodynamic therapy for hypoxia tumor by using red blood cell microcarriers</a>	Pre-existing hypoxia in tumors can result in an inadequate oxygen supply during photodynamic therapy (PDT), which in turn hampers photodynamic efficac

May 01, 2017	<a href="#">Near-infrared photothermal therapy using EGFR-targeted gold nanoparticles increases autophagic cell death in breast cancer</a>	Although triple negative breast cancer (TNBC) is a small percentage of all breast cancers, to date, TNBC is one of the most challenging types of breast
May 01, 2017	<a href="#">A Smart Responsive Dual Aptamers-Targeted Bubble-Generating Nanosystem for Cancer Triplex Therapy and Ultrasound Imaging</a>	The absence of targeted, single treatment methods produces low therapeutic value for treating cancers.
April 20, 2017	<a href="#">Aptamer-mediated impairment of EGFR-integrin <math>\alpha\beta3</math> complex inhibits vasculogenic mimicry and growth of triple-negative breast cancers</a>	Current treatment options for triple-negative breast cancers (TNBCs) is limited by the absence of well-defined biomarkers, excluding a targeted therapy
April 03, 2017	<a href="#">A novel treatment for metastatic lymph nodes using lymphatic delivery and photothermal therapy</a>	Systemic delivery of an anti-cancer agent often leads to only a small fraction of the administered dose accumulating in target sites.
April 01, 2017	<a href="#">In vivo photoacoustics and high frequency ultrasound imaging of mechanical high intensity focused ultrasound (HIFU) ablation</a>	The thermal effect of high intensity focused ultrasound (HIFU) has been clinically exploited over a decade, while the mechanical HIFU is still largely
March 23, 2017	<a href="#">Optimizing ultrasound molecular imaging of secreted frizzled related protein 2 expression in angiosarcoma</a>	Secreted frizzled related protein 2 (SFRP2) is a tumor endothelial marker expressed in angiosarcoma.
March 16, 2017	<a href="#">Ganetespib synergizes with cyclophosphamide to improve survival of mice with autochthonous tumors in a mutant p53-dependent manner</a>	The DNA-alkylating cytotoxic agent cyclophosphamide (CTX) is commonly used in the clinic to treat hematological malignancies like lymphomas and leukemia
March 13, 2017	<a href="#">Optimizing non-invasive radiofrequency hyperthermia treatment for improving drug delivery in 4T1 mouse breast cancer model</a>	Interactions of high-frequency radio waves (RF) with biological tissues are currently being investigated as a therapeutic platform for non-invasive cancer
March 01, 2017	<a href="#">Photoacoustic signal characterization of cancer treatment response: Correlation with changes in tumor oxygenation</a>	Frequency analysis of the photoacoustic radiofrequency signals and oxygen saturation estimates were used to monitor the in-vivo response of a novel, t
March 01, 2017	<a href="#">Tumor angiogenesis of SCLC inhibited by decreased expression of FMOD via downregulating angiogenic factors of endothelial cells</a>	Fibromodulin (FMOD), an ECM small leucine-rich proteoglycan (SLRP), was reported to promote angiogenesis not only during wound healing, but also in op
February 28, 2017	<a href="#">Magnetic Nanoliposomes as in Situ Microbubble Bombers for Multimodality Image-Guided Cancer Theranostics</a>	Nanosized drug delivery systems have offered promising approaches for cancer theranostics.
February 01, 2017	<a href="#">Enhancing the anti-multiple myeloma efficiency in a cancer stem cell xenograft model by conjugating the ABCG2 antibody with microbubbles for a targeted delivery of ultrasound mediated epirubicin</a>	Background: Although multiple myeloma (MM) treatment has improved in the last decade, it remains largely incurable.
January 24, 2017	<a href="#">Theranostic Liposomes with Hypoxia-Activated Prodrug to Effectively Destruct Hypoxic Tumors Post-Photodynamic Therapy</a>	Photodynamic therapy (PDT), a noninvasive cancer therapeutic method triggered by light, would lead to severe tumor hypoxia after treatment.
January 17, 2017	<a href="#">Matrix stiffening promotes a tumor vasculature phenotype</a>	Tumor microvasculature tends to be malformed, more permeable, and more tortuous than vessels in healthy tissue, effects that have been largely attribu
January 01, 2016	<a href="#">Detection and characterization of murine colitis and carcinogenesis by molecularly targeted contrast-enhanced ultrasound</a>	AIM To study mucosal addressin cellular adhesion molecule-1 (MAdCAM-1) and vascular endothelial growth factor (VEGF)-targeted contrast enhanced ultras

January 01, 2016	<a href="#">Nanoscale covalent organic polymers as a biodegradable nanomedicine for chemotherapy-enhanced photodynamic therapy of cancer</a>	Recently, covalent-organic polymers (COPs), which covalently cross-link different types of organic molecules to form organic network structures, have
January 01, 2016	<a href="#">The chemokine scavenging receptor D6 / ACKR2 is a target of miR-146a in thyroid cancer</a>	We have previously shown that miR-146a, a NF- $\kappa$ B-regulated microRNA, is strongly expressed in human specimens and cell lines derived from anaplastic th
January 01, 2016	<a href="#">Optical clearing and fluorescence deep-tissue imaging for 3D quantitative analysis of the brain tumor microenvironment</a>	© 2017 The Author(s) Background: Three-dimensional visualization of the brain vasculature and its interactions with surrounding cells may shed light o
January 01, 2016	<a href="#">A Systems Biology Approach Identifies FUT8 as a Driver of Melanoma Metastasis</a>	Association of aberrant glycosylation with melanoma progression is based mainly on analyses of cell lines.
January 01, 2016	<a href="#">Monitoring of Blood Vessel Density Using Contrast-Enhanced High Frequency Ultrasound May Facilitate Early Diagnosis of Lymph Node Metastasis</a>	Time-dependent alterations in the ultrasonography characteristics of lymph nodes during early-stage metastasis have not been compared with those of tu
January 01, 2016	<a href="#">Enhanced photothermal therapy of biomimetic polypyrrole nanoparticles through improving blood flow perfusion</a>	In this study, we reported a strategy to improve delivery efficiency of a long-circulation biomimetic photothermal nanoagent for enhanced photothermal
January 01, 2016	<a href="#">inhibition of bone marrow-derived mesenchymal stem cells homing towards triple-negative breast cancer microenvironment using an anti-PDGFR<math>\beta</math> aptamer</a>	Bone marrow-derived mesenchymal stem cells (BM-MSCs) are shown to participate in tumor progression by establishing a favorable tumor microenvironment
January 01, 2016	<a href="#">Exosome as a Vehicle for Delivery of Membrane Protein Therapeutics, PH20, for Enhanced Tumor Penetration and Antitumor Efficacy</a>	As biochemical and functional studies of membrane protein remain a challenge, there is growing interest in the application of nanotechnology to solve
January 01, 2016	<a href="#">Two-Dimensional Tantalum Carbide (MXenes) Composite Nanosheets for Multiple Imaging-Guided Photothermal Tumor Ablation</a>	MXenes, an emerging family of graphene-analogues two-dimensional (2D) materials, have attracted continuous and tremendous attention in many applicati
January 01, 2016	<a href="#">Biological Evaluation of a Fluorescent-Imaging Agent for Medullary Thyroid Cancer in an Orthotopic Model</a>	Context: The primary and definitive treatment of medullary thyroid cancer (MTC) is surgical re- section.
January 01, 2016	<a href="#">The brain microenvironment mediates resistance in luminal breast cancer to PI3K inhibition through HER3 activation</a>	Although targeted therapies are often effective systemically, they fail to adequately control brain metastases.
January 01, 2016	<a href="#">Highly versatile SPION encapsulated PLGA nanoparticles as photothermal ablaters of cancer cells and as multimodal imaging agents</a>	We have designed versatile polymeric nanoparticles with cancer cell specific targeting capabilities via aptamer conjugation after the successful encap
January 01, 2016	<a href="#">Tumor vasculature normalization by orally fed erlotinib to modulate the tumor microenvironment for enhanced cancer nanomedicine and immunotherapy</a>	The abnormal tumor vasculature is one of key reasons that lead to the limited tumor perfusion as well as hypoxic and immunosuppressive tumor microenvi
January 01, 2016	<a href="#">Albumin-Templated Manganese Dioxide Nanoparticles for Enhanced Radioisotope Therapy</a>	Although nanoparticle-based drug delivery systems have been widely explored for tumor-targeted delivery of radioisotope therapy (RIT), the hypoxia zon
January 01, 2016	<a href="#">Carbon ion radiotherapy: Impact of tumor differentiation on local control in experimental prostate carcinomas</a>	To summarize the research activities of the "clinical research group heavy ion therapy", funded by the German Research Foundation (DFG, KFO 214), on t

January 01, 2016	<a href="#">Black hollow silicon oxide nanoparticles as highly efficient photothermal agents in the second near-infrared window for in vivo cancer therapy</a>	Semiconductor nanoparticles with localized surface plasmon resonance (LSPR) have gained increasing interest due to their potential for use in nanomedicine
January 01, 2016	<a href="#">Manipulation of variables in local controlled release vincristine treatment in neuroblastoma</a>	Introduction Local drug delivery minimizes systemic toxicity while delivering high-dose chemotherapy for neuroblastoma patients.
January 01, 2016	<a href="#">Photoacoustic-Guided Surgery with Indocyanine Green-Coated Superparamagnetic Iron Oxide Nanoparticle Clusters</a>	A common cause of local tumor recurrence in brain tumor surgery results from incomplete surgical resection.
January 01, 2016	<a href="#">PBCA-based polymeric microbubbles for molecular imaging and drug delivery</a>	Microbubbles (MB) are routinely used as contrast agents for ultrasound (US) imaging.
January 01, 2016	<a href="#">β-elemene regulates endoplasmic reticulum stress to induce the apoptosis of NSCLC cells through PERK/IRE1α/ATF6 pathway</a>	Endoplasmic reticulum stress (ERs) has been regarded as an important cause for the pathogenesis of non-small-cell lung cancer (NSCLC).
January 01, 2016	<a href="#">Protein disulfide isomerase a4 acts as a novel regulator of cancer growth through the procaspase pathway</a>	Protein disulfide isomerase a4 (PDIA4) is implicated in the growth and death of tumor cells; however, its molecular mechanism and therapeutic potential
January 01, 2016	<a href="#">Intrathymic injection of hematopoietic progenitor cells establishes functional T cell development in a mouse model of severe combined immunodeficiency</a>	BACKGROUND Even though hematopoietic stem cell transplantation can be curative in patients with severe combined immunodeficiency, there is a need for
January 01, 2016	<a href="#">Tissue-directed Implantation Using Ultrasound Visualization for Development of Biologically Relevant Metastatic Tumor Xenografts</a>	Background: Advances in cancer therapeutics depend on reliable in vivo model systems.
January 01, 2016	<a href="#">A Combination of Radiation and the Hypoxia-Activated Prodrug Evofosfamide (TH-302) is Efficacious against a Human Orthotopic Pancreatic Tumor Model</a>	This study was designed to investigate the effect of single-dose radiation therapy (RT) in combination with evofosfamide (TH-302), a hypoxia-activated
January 01, 2016	<a href="#">Reactive Oxygen Species (ROS)-Responsive Nanomedicine for RNAi Cancer Therapy</a>	Although much effort has been dedicated to the development of efficient siRNA delivery for cancer therapy, delivery nanomaterials that can particularl
January 01, 2016	<a href="#">Establishment of highly metastatic KRAS mutant lung cancer cell sublines in long-term three-dimensional low attachment cultures</a>	Decreased cell-substratum adhesion is crucially involved in metastasis.
January 01, 2016	<a href="#">Experimental imaging in orthotopic renal cell carcinoma xenograft models: comparative evaluation of high-resolution 3D ultrasonography, in-vivo micro-CT and 9.4T MRI</a>	In this study, we aimed to comparatively evaluate high-resolution 3D ultrasonography (hrUS), in-vivo micro-CT (μCT) and 9.4T MRI for the monitoring of
January 01, 2016	<a href="#">Engineered Zn(II)-dipicolylamine-gold nanorod provides effective prostate cancer treatment by combining siRNA delivery and photothermal therapy</a>	Combination cancer treatment has emerged as a critical approach to achieve remarkable anticancer effect.
January 01, 2016	<a href="#">PSMA-targeted theranostic nanocarrier for prostate cancer</a>	Herein, we report the use of a theranostic nanocarrier (Folate-HBPE(CT20p)) to deliver a therapeutic peptide to prostate cancer tumors that express PS
January 01, 2016	<a href="#">Magnetically-actuated drug delivery device (MADDD) for minimally invasive treatment of prostate cancer: An in vivo animal pilot study</a>	Background: The vast majority of prostate cancer presents clinically localized to the prostate without evidence of metastasis.
January 01, 2016	<a href="#">Proteoglycan-targeting applied to hypoxia-activated prodrug therapy in chondrosarcoma: first proof-of-concept</a>	Due to its abundant chondrogenic matrix and hypoxic tissue, chondrosarcoma is chemo- and radio-resistant.

January 01, 2016	<a href="#">Limiting the protein corona: A successful strategy for in vivo active targeting of anti-HER2 nanobody-functionalized nanostars</a>	Gold nanoparticles hold great promise as anti-cancer theranostic agents against cancer by actively targeting the tumor cells.
January 01, 2016	<a href="#">Bottom-up synthesis of WS 2 nanosheets with synchronous surface modification for imaging guided tumor regression</a>	Two-dimensional transition metal dichalcogenides (TMDs) have been receiving great attention as NIR photothermal transducing agent in tumor photothermia
January 01, 2016	<a href="#">Non-invasive monitoring of the therapeutic response in sorafenib-treated hepatocellular carcinoma based on photoacoustic imaging</a>	PURPOSE: We investigated the changes of tissue oxygen saturation (sO <sub>2</sub> ) in sorafenib-treated HCC (hepatocellular carcinoma) mouse models using photoacou
January 01, 2016	<a href="#">Anti-RhoJ antibody functionalized Au@I nanoparticles as CT-guided tumor vessel-targeting radiosensitizers in patient-derived tumor xenograft model</a>	The clinical success of radiotherapy is greatly hampered due to its intolerable off-target cytotoxicity induced by the high dose of radiation.
January 01, 2016	<a href="#">Transposon mutagenesis identifies chromatin modifiers cooperating with Ras in thyroid tumorigenesis and detects ATXN7 as a cancer gene</a>	Oncogenic RAS mutations are present in 15-30% of thyroid carcinomas.
January 01, 2016	<a href="#">Inhibition of ROCK1 kinase modulates both tumor cells and stromal fibroblasts in pancreatic cancer</a>	ROCK, or Rho-associated coiled coil-containing protein kinase, is a member of the AGC kinase family and has been shown to play a role in cell migratio
January 01, 2016	<a href="#">Targeting the tumour microenvironment with an enzyme-responsive drug delivery system for the efficient therapy of breast and pancreatic cancers</a>	The development of novel therapeutic strategies allowing the destruction of tumour cells while sparing healthy tissues is one of the main challenges o
January 01, 2016	<a href="#">Apple polyphenol decelerates bladder cancer growth involving apoptosis and cell cycle arrest in N-butyl-N-(4-hydroxybutyl) nitrosamine-induced experimental animal model</a>	Apple polyphenol (AP) was found to possess the potential to prevent cancers.
January 01, 2016	<a href="#">Polyaniline-loaded γ-polyglutamic acid nanogels as a platform for photoacoustic imaging-guided tumor photothermal therapy</a>	We report the facile synthesis of polyaniline (PANI)-loaded γ-polyglutamic acid (γ-PGA) nanogels (NGs) for photoacoustic (PA) imaging-guided photother
January 01, 2016	<a href="#">Spatiotemporal Optoacoustic Mapping of Tumor Hemodynamics in a Clinically Relevant Orthotopic Rabbit Model of Head and Neck Cancer</a>	The purpose of this study was to investigate the usefulness of photoacoustic imaging (PAI) for spatiotemporal mapping of tumor hemodynamics in a rabbi
January 01, 2016	<a href="#">A triple-synergistic strategy for combinational photo/radiotherapy and multi-modality imaging based on hyaluronic acid-hybridized polyaniline-coated WS 2 nanodots</a>	In this study, we report a strategy for integrating hyaluronic acid (HA), polyaniline (PANI), WS2 nanodots (WS2), and chlorin e6 (Ce6) into a single n
January 01, 2016	<a href="#">Rational Design of Tumor Microenvironment-Activated Micelles for Programed Targeting of Breast Cancer Metastasis</a>	The poor drug delivery to primary and metastatic tumors of breast cancer remains a great challenge for effective antimetastasis therapy.
January 01, 2016	<a href="#">Rational Design of Branched Nanoporous Gold Nanoshells with Enhanced Physico-Optical Properties for Optical Imaging and Cancer Therapy</a>	Reported procedures on the synthesis of gold nanoshells with smooth surfaces have merely demonstrated efficient control of shell thickness and particl
January 01, 2016	<a href="#">BSA-Bioinspired Gadolinium Hybrid-Functionalized Hollow Gold Nanoshells for NIRF/PA/CT/MR Quadmodal Diagnostic Imaging-Guided Photothermal/Photodynamic Cancer Therapy</a>	Multimodal imaging guided synergistic therapy promises more accurate diagnosis and higher therapeutic efficiency than single imaging modality or their
January 01, 2016	<a href="#">Self-assembly of semiconducting-plasmonic gold nanoparticles with enhanced optical property for photoacoustic imaging and photothermal therapy</a>	Although various noble metal and semiconducting molecules have been developed as photoacoustic (PA) agents, the use of semiconducting polymer-metal na

January 01, 2016	<a href="#">CD8<math>\alpha</math> intraepithelial lymphocytes arise from two main thymic precursors</a>	TCR $\alpha$ $\beta$ +CD4–CD8 $\alpha$ +CD8 $\beta$ – intestinal intraepithelial lymphocytes (CD8 $\alpha$ IELs) are an abundant population of thymus-derived T cells that protect the gut bar
January 01, 2016	<a href="#">Red blood cell membrane-camouflaged melanin nanoparticles for enhanced photothermal therapy</a>	Photothermal therapy (PTT) has represented a promising noninvasive approach for cancer treatment in recent years.
January 01, 2016	<a href="#">A Theranostic Nanoplatform: Triple-Model Imaging Guided Synergistic Cancer Therapy Based on Liposomes Conjugated Mesoporous Silica Nanoparticles</a>	Mesoporous silica nanoparticles (MSNs) have long since been investigated to provide a versatile drug-delivery platform due to their multitudinous meri
January 01, 2016	<a href="#">Ultra-small Iron-Gallic Acid Coordination Polymer Nanoparticles for Chelator-free Labeling of <math>^{64}\text{Cu}</math> and Multimodal Imaging-guided Photothermal Therapy</a>	Cancer nanotechnology has become the hot topic nowadays.
January 01, 2016	<a href="#">Modeling the Iatrogenic Pancreatic Cancer Risk After Islet Autotransplantation in Mouse</a>	Iatrogenic pancreatic cancer metastasis after islet infusion is a potential risk of islet autotransplantation performed after pancreatectomy.
January 01, 2016	<a href="#">Ly6Clomonocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy</a>	Current anti-VEGF therapies for colorectal cancer (CRC) provide limited survival benefit, as tumors rapidly develop resistance to these agents.
December 19, 2016	<a href="#">Synthesis and functionalization of protease-activated nanoparticles with tissue plasminogen activator peptides as targeting moiety and diagnostic tool for pancreatic cancer</a>	Background: Functionalized nanoparticles (NPs) are one promising tool for detecting specific molecular targets and combine molecular biology and nanot
December 08, 2016	<a href="#">PD L1 blockade enhances response of pancreatic ductal adenocarcinoma to radiotherapy</a>	Pancreatic ductal adenocarcinoma (PDAC) is considered a non-immunogenic tumor, and immune checkpoint inhibitor monotherapy lacks efficacy in this dise
December 06, 2016	<a href="#">Mitochondrial Targeting of Metformin Enhances Its Activity against Pancreatic Cancer</a>	Pancreatic cancer is one of the hardest-to-treat types of neoplastic diseases.
December 01, 2016	<a href="#">Suppression of Tumor Growth and Muscle Wasting in a Transgenic Mouse Model of Pancreatic Cancer by the Novel Histone Deacetylase Inhibitor AR-42</a>	PURPOSE: Pancreatic ductal adenocarcinoma (PDAC) is the third leading cause of cancer death in the United States.
November 30, 2016	<a href="#">Assessment of murine colorectal cancer by micro-ultrasound using three dimensional reconstruction and non-linear contrast imaging</a>	The relatively low success rates of current colorectal cancer (CRC) therapies have led investigators to search for more specific treatments.
November 29, 2016	<a href="#">Local checkpoint inhibition of CTLA-4 as a monotherapy or in combination with anti-PD1 prevents the growth of murine bladder cancer</a>	ABSTRACT Checkpoint blockade of CTLA-4 results in long-lasting survival benefits in metastatic cancer patients.
October 24, 2016	<a href="#">Quantitative assessment of pancreatic cancer precursor lesions in IHC-stained tissue with a tissue image analysis platform</a>	Tissue image analysis (tIA) is emerging as a powerful tool for quantifying biomarker expression and distribution in complex diseases and tissues.
October 12, 2016	<a href="#">Ultrasound Triggered Tumor Oxygenation with Oxygen-Shuttle Nanoperfluorocarbon to Overcome Hypoxia-Associated Resistance in Cancer Therapies</a>	Tumor hypoxia is known to be one of critical reasons that limit the efficacy of cancer therapies, particularly photodynamic therapy (PDT) and radiothe
October 12, 2016	<a href="#">Anti-VEGF therapy induces ECM remodeling and mechanical barriers to therapy in colorectal cancer liver metastases</a>	The survival benefit of anti–vascular endothelial growth factor (VEGF) therapy in metastatic colorectal cancer (mCRC) patients is limited to a few mon
September 08, 2016	<a href="#">Lack of immunoediting in murine pancreatic cancer reversed with neoantigen</a>	In carcinogen-driven cancers, a high mutational burden results in neoepitopes that can be recognized immunologically.

September 01, 2016	<a href="#">Ultrasound-guided therapeutic modulation of hepatocellular carcinoma using complementary microRNAs</a>	Treatment options for patients with hepatocellular carcinoma (HCC) are limited, in particular in advanced and drug resistant HCC.
August 17, 2016	<a href="#">A Multimodal Imaging Approach for Longitudinal Evaluation of Bladder Tumor Development in an Orthotopic Murine Model</a>	Bladder cancer is the fourth most common malignancy amongst men in Western industrial- ized countries with an initial response rate of 70% for the non
August 01, 2016	<a href="#">Photoacoustic Imaging in Oncology: Translational Preclinical and Early Clinical Experience</a>	Photoacoustic imaging has evolved into a clinically translatable platform with the potential to complement existing imaging techniques for the managem
August 01, 2016	<a href="#">Nanotherapy silencing the interleukin-8 gene produces regression of prostate cancer by inhibition of angiogenesis</a>	Interleukin-8 (IL-8) is a proangiogenic cytokine associated with aggressive prostate cancer (CaP).
August 01, 2016	<a href="#">Functional Flow Patterns and Static Blood Pooling in Tumors Revealed by Combined Contrast-Enhanced Ultrasound and Photoacoustic Imaging</a>	Alterations in tumor perfusion and microenvironment have been shown to be associated with aggressive cancer phenotypes, raising the need for noninvasi
August 01, 2016	<a href="#">Combination of Eribulin and Aurora A Inhibitor MLN8237 Prevents Metastatic Colonization and Induces Cytotoxic Autophagy in Breast Cancer</a>	Recent findings suggest that the inhibition of Aurora A (AURKA) kinase may offer a novel treatment strategy against metastatic cancers.
July 21, 2016	<a href="#">Phototheranostic Porphyrin Nanoparticles Enable Visualization and Targeted Treatment of Head and Neck Cancer in Clinically Relevant Models</a>	Head and neck cancer is the fifth most common type of cancer worldwide and remains challenging for effective treatment due to the proximity to critica
June 20, 2016	<a href="#">Preclinical efficacy of bevacizumab with CRLX101, an investigational nanoparticle-drug conjugate, in treatment of metastatic triple-negative breast cancer</a>	VEGF-pathway targeting antiangiogenic drugs, such as bevacizumab, when combined with chemotherapy have changed clinical practice for the treatment of
May 25, 2016	<a href="#">Monitoring the Growth of an Orthotopic Tumour Xenograft Model: Multi-Modal Imaging Assessment with Benchtop MRI (1T), High-Field MRI (9.4T), Ultrasound and Bioluminescence</a>	Background: Research using orthotopic and transgenicmodels of cancer requires imaging methods to non-invasively quantify tumour burden.
April 19, 2016	<a href="#">Ang-2/VEGF bispecific antibody reprograms macrophages and resident microglia to anti-tumor phenotype and prolongs glioblastoma survival</a>	Inhibition of the vascular endothelial growth factor (VEGF) pathway has failed to improve overall survival of patients with glioblastoma (GBM).
April 12, 2016	<a href="#">High Resolution Ultrasound and Photoacoustic Imaging of Orthotopic Lung Cancer in Mice: New Perspectives for Onco-Pharmacology</a>	Objectives: We have developed a relevant preclinical model associated with a specific imaging protocol dedicated to onco-pharmacology studies in mice.
April 07, 2016	<a href="#">Combined Inhibition of Cyclin-Dependent Kinases (Dinaciclib) and AKT (MK-2206) Blocks Pancreatic Tumor Growth and Metastases in Patient-Derived Xenograft Models</a>	KRAS is activated by mutation in the vast majority of cases of pancreatic cancer; unfortunately, therapeutic attempts to inhibit KRAS directly have be
February 01, 2016	<a href="#">Monitoring Prostate Tumor Growth in an Orthotopic Mouse Model Using Three-Dimensional Ultrasound Imaging Technique</a>	Prostate cancer (CaP) is the most commonly diagnosed and the second leading cause of death from cancer in males in USA.
February 01, 2016	<a href="#">Preclinical Efficacy of Ado-trastuzumab Emtansine in the Brain Microenvironment</a>	Background: Central nervous system (CNS) metastases represent a major problem in the treatment of human epidermal growth factor receptor 2 (HER2)–posi
February 01, 2016	<a href="#">Squamous Cell Carcinoma Xenografts: Use of VEGFR2-targeted Microbubbles for Combined Functional and Molecular US to Monitor Antiangiogenic Therapy Effects</a>	Purpose: To assess the ability of vascular endothelial growth factor receptor type 2 (VEGFR2)-targeted and nontargeted ultrasonography (US) to depict

February 01, 2016	<a href="#">Cytosolic Phospholipase A 2 <math>\alpha</math> Is Essential for Renal Dysfunction and End-Organ Damage Associated With Angiotensin II-Induced Hypertension</a>	BACKGROUND: The kidney plays an important role in regulating blood pressure (BP).
January 01, 2015	<a href="#">Sonoporation with Acoustic Cluster Therapy (ACT®) induces transient tumour volume reduction in a subcutaneous xenograft model of pancreatic ductal adenocarcinoma</a>	Pancreatic ductal adenocarcinoma (PDAC) remains one of the deadliest cancers with survival averaging only 3months if untreated following diagnosis.
January 01, 2015	<a href="#">Nutrition Modulation of Cardiotoxicity and Anticancer Efficacy Related to Doxorubicin Chemotherapy by Glutamine and -3 Polyunsaturated Fatty Acids</a>	BACKGROUND: Doxorubicin (DOX) has been one of the most effective antitumor agents against a broad spectrum of malignancies.
January 01, 2015	<a href="#">Ultrasound-guided photoacoustic imaging for the selective detection of EGFR-expressing breast cancer and lymph node metastases</a>	We assessed the use of ultrasound (US)-guided photoacoustic imaging (PAI) and anti-EGFR antibody-conjugated gold nanorods (anti-EGFR-GNs) to non-inva
January 01, 2015	<a href="#">Transdermal drug targeting and functional imaging of tumor blood vessels in the mouse auricle</a>	Subcutaneously growing tumors are widely utilized to study tumor angiogenesis and the efficacy of antiangiogenic therapies in mice.
January 01, 2015	<a href="#">High-Frequency Ultrasound-Guided Injection for the Generation of a Novel Orthotopic Mouse Model of Human Thyroid Carcinoma</a>	Background: Thyroid carcinoma is the most common endocrine malignancy and has an increasing incidence.
January 01, 2015	<a href="#">Photodynamic Therapy Synergizes with Irinotecan to Overcome Compensatory Mechanisms and Improve Treatment Outcomes in Pancreatic Cancer</a>	The ability of tumor cells to adapt to therapeutic regimens by activating alternative survival and growth pathways remains a major challenge in cancer
January 01, 2015	<a href="#">Ultrasound Molecular Imaging of the Breast Cancer Neovasculature using Engineered Fibronectin Scaffold Ligands: A Novel Class of Targeted Contrast Ultrasound Agent</a>	Molecularly-targeted microbubbles (MBs) are increasingly being recognized as promising contrast agents for oncological molecular imaging with ultrasound
January 01, 2015	<a href="#">Tumor priming using metronomic chemotherapy with neovasculature-targeted, Nanoparticulate paclitaxel</a>	Normalization of the tumor microenvironment is a promising approach to render conventional chemotherapy more effective.
January 01, 2015	<a href="#">Co-option of Liver Vessels and Not Sprouting Angiogenesis Drives Acquired Sorafenib Resistance in Hepatocellular Carcinoma</a>	Background: The anti-angiogenic Sorafenib is the only approved systemic therapy for advanced hepatocellular carcinoma (HCC).
January 01, 2015	<a href="#">Photoacoustic monitoring of tumor and normal tissue response to radiation</a>	Hypoxia is a recognized characteristic of tumors that influences efficacy of radiotherapy (RT).
January 01, 2015	<a href="#">Multifunctional Fe<sub>3</sub>O<sub>4</sub> @ Au core/shell nanostars: a unique platform for multimode imaging and photothermal therapy of tumors</a>	We herein report the development of multifunctional folic acid (FA)-targeted Fe <sub>3</sub> O <sub>4</sub> @ Au nanostars (NSs) for targeted multi-mode magnetic resonance (MR
November 16, 2015	<a href="#">Earlier detection of breast cancer with ultrasound molecular imaging in a transgenic mouse model.</a>	While there is an increasing role of ultrasound for breast cancer screening in patients with dense breast, conventional anatomical ultrasound lacks se
October 27, 2015	<a href="#">Tumor-Specific Formation of Enzyme-Instructed Supramolecular Self-Assemblies as Cancer Theranostics</a>	Despite the effort of developing various nanodelivery systems, most of them suffer from undesired high uptakes by the reticuloendothelial system, such
September 02, 2015	<a href="#">Multimodal imaging guided preclinical trials of vascular targeting in prostate cancer</a>	// 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
August 01, 2015	<a href="#">Losartan treatment attenuates tumor-induced myocardial dysfunction</a>	Fatigue and muscle wasting are common symptoms experienced by cancer patients.

July 16, 2015	<a href="#">Mucin 1 is a potential therapeutic target in cutaneous T-cell lymphoma</a>	Cutaneous T-cell lymphoma (CTCL) is an aggressive neoplasm with limited treatments for patients with advanced disease.
June 22, 2015	<a href="#">Impaired Coronary and Renal Vascular Function in Spontaneously Type 2 Diabetic Leptin-Deficient Mice</a>	Background: Type 2 diabetes is associated with macro- and microvascular complications in man.
June 15, 2015	<a href="#">Breast Cancer Detection by B7-H3-Targeted Ultrasound Molecular Imaging</a>	Ultrasound is a complimentary imaging modality to mammography in breast cancer detection in particular in patients with dense breast tissue, but is li
June 01, 2015	<a href="#">A Cre-conditional MYCN-driven neuroblastoma mouse model as an improved tool for preclinical studies</a>	Neuroblastoma, a childhood cancer that originates from neural crest-derived cells, is the most common deadly solid tumor of infancy.
May 01, 2015	<a href="#">Ubiquinol reduces muscle wasting but not fatigue in tumor-bearing mice.</a>	PURPOSE: Fatigue is the most common and distressing symptom reported by cancer patients during and after treatment.
April 30, 2015	<a href="#">Effect of Sodium-Glucose Cotransport Inhibition on Polycystic Kidney Disease Progression in PCK Rats</a>	The sodium-glucose-cotransporter-2 (SGLT2) inhibitor dapagliflozin (DAPA) induces glucosuria and osmotic diuresis via inhibition of renal glucose re
March 01, 2015	<a href="#">Vascular Endothelial Growth Factor Receptor Type 2-targeted Contrast-enhanced US of Pancreatic Cancer Neovasculature in a Genetically Engineered Mouse Model: Potential for Earlier Detection</a>	PURPOSE: To test ultrasonographic (US) imaging with vascular endothelial growth factor receptor type 2 (VEGFR2)-targeted microbubble contrast material
January 27, 2015	<a href="#">A mammaglobin-A targeting agent for noninvasive detection of breast cancer metastasis in lymph nodes.</a>	Pathologic axillary lymph node (ALN) status is an important prognostic factor for staging breast cancer.
January 01, 2015	<a href="#">Comparison of Photoacoustically Derived Hemoglobin and Oxygenation Measurements with Contrast-Enhanced Ultrasound Estimated Vascularity and Immunohistochemical Staining in a Breast Cancer Model</a>	In this preliminary study, we compared two noninvasive techniques for imaging intratumoral physiological conditions to immunohistochemical staining in
January 01, 2015	<a href="#">Collecting Duct-Derived Cells Display Mesenchymal Stem Cell Properties and Retain Selective In Vitro and In Vivo Epithelial Capacity.</a>	We previously described a mesenchymal stem cell (MSC)-like population within the adult mouse kidney that displays long-term colony-forming efficiency,
January 01, 2015	<a href="#">Quantitative correlational study of microbubble-enhanced ultrasound imaging and magnetic resonance imaging of glioma and early response to radiotherapy in a rat model</a>	Purpose: Radiotherapy remains a major treatment method for malignant tumors.
January 01, 2015	<a href="#">Quantitative volumetric imaging of normal, neoplastic and hyperplastic mouse prostate using ultrasound</a>	Abstract Background: Genetically engineered mouse models are essential to the investigation of the molecular mechanisms underlying human prostate path
January 01, 2015	<a href="#">Induction of T-cell Immunity Overcomes Complete Resistance to PD-1 and CTLA-4 Blockade and Improves Survival in Pancreatic Carcinoma</a>	Disabling the function of immune checkpoint molecules can unlock T-cell immunity against cancer, yet despite remarkable clinical success with monoclon
January 01, 2015	<a href="#">Prediction of Tumor Recurrence and Therapy Monitoring Using Ultrasound-Guided Photoacoustic Imaging</a>	Selection and design of individualized treatments remains a key goal in cancer therapeutics; prediction of response and tumor recurrence following a g
January 01, 2015	<a href="#">Cell type-specific abundance of 4EBP1 primes prostate cancer sensitivity or resistance to PI3K pathway inhibitors</a>	The activity of the PI3K-AKT-mTOR signaling pathway is often increased in various cancer types.
January 01, 2015	<a href="#">Targeted Inhibition of Phosphoinositide 3-Kinase/Mammalian Target of Rapamycin Sensitizes Pancreatic Cancer Cells to Doxorubicin without Exacerbating Cardiac Toxicity.</a>	Pancreatic cancer has the lowest 5-year survival rate of all major cancers despite decades of effort to design and implement novel, more effective tre

January 01, 2015	<a href="#">Prostaglandin E synthase is upregulated by Gas6 during cancer-induced venous thrombosis.</a>	Venous thromboembolism (VTE) is a common complication of cancer.
January 01, 2015	<a href="#">Novel effects of simvastatin on uterine fibroid tumors: In vitro and patient-derived xenograft mouse model study</a>	Objective Uterine leiomyomas represent a common gynecologic problem with no satisfactory long-term medical treatment.
January 01, 2015	<a href="#">High-Fat, High-Calorie Diet Enhances Mammary Carcinogenesis and Local Inflammation in MMTV-PyMT Mouse Model of Breast Cancer</a>	Epidemiological studies provide strong evidence that obesity and the associated adipose tissue inflammation are risk factors for breast cancer; however
January 01, 2015	<a href="#">Melanoma brain metastasis is independent of lactate dehydrogenase A expression.</a>	BACKGROUND: The key metabolic enzyme lactate dehydrogenase A (LDHA) is overexpressed in many cancers, and several preclinical studies have shown encour
January 01, 2015	<a href="#">Preclinical Pharmacologic Evaluation of Pralatrexate and Romidepsin Confirms Potent Synergy of the Combination in a Murine Model of Human T-cell Lymphoma</a>	Purpose:T-cell lymphomas (TCLs) are aggressive diseases, which carry a poor prognosis.
January 01, 2015	<a href="#">Urine Stasis Predisposes to Urinary Tract Infection by an Opportunistic Uropathogen in the Megabladder (Mgb) Mouse</a>	PURPOSE: Urinary stasis is a risk factor for recurrent urinary tract infection (UTI).
January 01, 2015	<a href="#">Quantitative Ultrasound Comparison of MAT and 4T1 Mammary Tumors in Mice and Rats Across Multiple Imaging Systems</a>	Objectives—Quantitative ultrasound estimates such as the frequency-dependent backscatter coefficient (BSC) have the potential to enhance noninvasive t
January 01, 2015	<a href="#">An orthotopic mouse model of laryngeal squamous cell carcinoma</a>	Objective: This study aimed to create a reliable and reproducible orthotopic mouse model of laryngeal malignancy that recapitulates its biologic behav
January 01, 2015	<a href="#">Semaphorin 3D autocrine signaling mediates the metastatic role of annexin A2 in pancreatic cancer.</a>	Most patients with pancreatic ductal adenocarcinoma (PDA) present with metastatic disease at the time of diagnosis or will recur with metastases after
January 01, 2015	<a href="#">Erythropoietin accelerates the regeneration of ureteral function in a murine model of obstructive uropathy.</a>	PURPOSE: Unilateral ureteral obstruction halts ureteral peristalsis, and may cause pain and lead to infection.
August 08, 2014	<a href="#">High-Resolution Ultrasound Allows Percutaneous Initiation and Surveillance of Prostate Cancer in an Orthotopic Murine Model</a>	Introduction: Prostate cancer xenografts should prefer or- thotopic growth to subcutaneous tumors as the former more closely mimics the natural tumor
August 01, 2014	<a href="#">Investigation and identification of etiologies involved in the development of acquired hydronephrosis in aged laboratory mice with the use of high-frequency ultrasound imaging</a>	Laboratory mice develop naturally occurring lesions that affect biomedical research.
July 17, 2014	<a href="#">Combination treatment with TRA-8 anti death receptor 5 antibody and CPT-11 induces tumor regression in an orthotopic model of pancreatic cancer.</a>	PURPOSE: Evaluate the response of human pancreatic cancer cell lines and orthotopic tumors to TRA-8, an agonistic antibody to death receptor 5, in com
July 17, 2014	<a href="#">Modulation of the tumor microvasculature by phosphoinositide-3 kinase inhibition increases doxorubicin delivery in vivo.</a>	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 href="#">A peptide conjugate of vitamin E succinate targets breast cancer cells with high ErbB2 expression.</a>	Overexpression of erbB2 is associated with resistance to apoptosis.
July 09, 2014	<a href="#">Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis</a>	Chronic intestinal inflammation is associated with pathological angiogenesis that further amplifies the inflammatory response.
July 01, 2014	<a href="#">Tumor Microenvironment Regulates Metastasis and Metastasis Genes of Mouse MMTV-PymT Mammary Cancer Cells In Vivo</a>	Metastasis is the primary cause of death in breast cancer patients, yet there are challenges to modeling this process in vivo.

June 01, 2014	<a href="#">Comparison of dynamic contrast-enhanced MR, ultrasound and optical imaging modalities to evaluate the antiangiogenic effect of PF-03084014 and sunitinib</a>	Noninvasive imaging has been widely applied for monitoring antiangiogenesis therapy in cancer drug discovery.
April 22, 2014	<a href="#">Multifunctional Albumin–MnO<sub>2</sub> Nanoparticles Modulate Solid Tumor Microenvironment by Attenuating Hypoxia, Acidosis, Vascular Endothelial Growth Factor and Enhance Radiation Response</a>	Insufficient oxygenation (hypoxia), acidic pH (acidosis), and elevated levels of reactive oxygen species (ROS), such as H <sub>2</sub> O <sub>2</sub> , are characteristic abnor
April 01, 2014	<a href="#">307 Orthotopic tumorgrafts in nude mice: A new method to study human prostate cancer</a>	BACKGROUND. In vivo model systems in prostate cancer research that authentically reproduce tumor growth are still sparse.
March 01, 2014	<a href="#">Ultrasound Molecular Imaging in a Human CD276 Expression-Modulated Murine Ovarian Cancer Model.</a>	PURPOSE: To develop a mouse ovarian cancer model that allows modulating the expression levels of human vascular targets in mouse xenograft tumors and
February 01, 2014	<a href="#">Translational therapeutics in genetically engineered mouse models of cancer.</a>	Advances in knowledge of the molecular alterations of human cancers, refinements in technologies for the generation of genetically engineered mouse mo
January 01, 2014	<a href="#">Safety and Chemopreventive Effect of Polyphenon E in Preventing Early and Metastatic Progression of Prostate Cancer in TRAMP Mice.</a>	Prostate cancer treatment is often accompanied by untoward side effects.
January 01, 2014	<a href="#">Routes of Delivery for CpG and Anti-CD137 for the Treatment of Orthotopic Kidney Tumors in Mice</a>	We have found previously that the tumor cell lines, Renca (a renal cancer) and MC38 (a colon tumor) which had been injected subcutaneously in mice, co
January 01, 2014	<a href="#">High-resolution imaging diagnosis and staging of bladder cancer: comparison between optical coherence tomography and high-frequency ultrasound.</a>	A comparative study between 1.3-microm optical coherence tomography (OCT) and 40-MHz high-frequency ultrasound (HFUS) is presented to enhance imaging
January 01, 2014	<a href="#">Tumor-Associated Hyaluronan Limits Efficacy of Monoclonal Antibody Therapy</a>	Despite tremendous progress in cancer immunotherapy for solid tumors, clinical success of monoclonal antibody (mAb) therapy is often limited by poorly
January 01, 2014	<a href="#">Generation of orthotopic patient-derived xenografts from gastrointestinal stromal tumor</a>	BACKGROUND: Gastrointestinal stromal tumor (GIST) is the most common sarcoma and its treatment with imatinib has served as the paradigm for developing
January 01, 2014	<a href="#">Targeting cancer stem-like cells as an approach to defeating cellular heterogeneity in Ewing sarcoma.</a>	Plasticity in cancer stem-like cells (CSC) may provide a key basis for cancer heterogeneity and therapeutic response.
January 01, 2014	<a href="#">Quantitative Assessment of Cancer Vascular Architecture by Skeletonization of High-resolution 3-D Contrast-enhanced Ultrasound Images: Role of Liposomes and Microbubbles.</a>	The accurate characterization and description of the vascular network of a cancer lesion is of paramount importance in clinical practice and cancer re
January 01, 2014	<a href="#">Multiparametric Spectroscopic Photoacoustic Imaging of Breast Cancer Development in a Transgenic Mouse Model</a>	OBJECTIVE: To evaluate the potential of multiparametric spectroscopic photoacoustic imaging using oxygen saturation, total hemoglobin, and lipid conte
January 01, 2014	<a href="#">Active curcumin nanoparticles formed from a volatile microemulsion template</a>	Mitochondria targeted phototherapy, including photodynamic therapy (PDT) and photothermal therapy (PTT), has excelled as an effective approach among o
January 01, 2014	<a href="#">Silencing HoxA1 by intraductal injection of siRNA lipidoid nanoparticles prevents mammary tumor progression in mice.</a>	With advances in screening, the incidence of detection of premalignant breast lesions has increased in recent decades; however, treatment options rema

January 01, 2014	<a href="#">p53 constrains progression to anaplastic thyroid carcinoma in a Braf-mutant mouse model of papillary thyroid cancer</a>	Anaplastic thyroid carcinoma (ATC) has among the worst prognoses of any solid malignancy.
December 18, 2013	<a href="#">Ultrasound-guided intra-tumor injection of combined immunotherapy cures mice from orthotopic prostate cancer</a>	Intra-tumor injection of immunotherapeutic agents is often the most effective, likely because of concomitant modification of tumor microenvironment.
November 15, 2013	<a href="#">Crizotinib inhibits metabolic inactivation of gemcitabine in c-Met-driven pancreatic carcinoma.</a>	Pancreatic ductal adenocarcinoma (PDAC) remains a major unsolved health problem.
November 06, 2013	<a href="#">Selective Permeabilization of the Blood-Brain Barrier at Sites of Metastasis</a>	BACKGROUND: Effective chemotherapeutics for primary systemic tumors have limited access to brain metastases because of the blood-brain barrier (BBB).
October 31, 2013	<a href="#">Non-invasive Monitoring of Ultrasound-Stimulated Microbubble Radiation Enhancement Using Photoacoustic Imaging</a>	Modulation of the tumour microvasculature has been demonstrated to affect the effectiveness of radiation, stimulating the search for anti-angiogenic a
October 01, 2013	<a href="#">Phosphatidylserine-Targeting Antibody Induces M1 Macrophage Polarization and Promotes Myeloid-Derived Suppressor Cell Differentiation</a>	Multiple tumor-derived factors are responsible for the accumulation and expansion of immune-suppressing myeloid-derived suppressor cells (MDSC) andM
July 23, 2013	<a href="#">CTGF antagonism with mAb FG-3019 enhances chemotherapy response without increasing drug delivery in murine ductal pancreas cancer.</a>	Pancreatic ductal adenocarcinoma (PDA) is characterized by abundant desmoplasia and poor tissue perfusion.
May 01, 2013	<a href="#">Struvite Urolithiasis and Chronic Urinary Tract Infection in a Murine Model of Urinary Diversion</a>	OBJECTIVE: To characterize the clinical course after cutaneous vesicostomy (CV) in megabladder (mgb <sup>-/-</sup> ) mice with functional urinary bladder obstruc
April 01, 2013	<a href="#">Enhanced Sonographic Imaging to Diagnose Lymph Node Metastasis: Importance of Blood Vessel Volume and Density</a>	Lymph node size is an important variable in ultrasound diagnosis of lymph node metastasis.
April 01, 2013	<a href="#">Rapid decrease in tumor perfusion following VEGF blockade predicts long-term tumor growth inhibition in preclinical tumor models.</a>	Vascular endothelial growth factor (VEGF) is a key upstream mediator of tumor angiogenesis, and blockade of VEGF can inhibit tumor angiogenesis and de
March 28, 2013	<a href="#">Mitochondrial activation by inhibition of PDKII suppresses HIF1a signaling and angiogenesis in cancer</a>	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	<a href="#">Ultrasound-Guided Intramural Inoculation of Orthotopic Bladder Cancer Xenografts: A Novel High-Precision Approach</a>	Orthotopic bladder cancer xenografts are essential for testing novel therapies and molecular manipulations of cell lines in vivo.
January 01, 2013	<a href="#">Bio-ink properties and printability for extrusion printing living cells</a>	Angiogenesis is a common pathological characteristic of many solid tumors and vulnerable atherosclero- tic plaques.
January 01, 2013	<a href="#">Molecular basis of renal adaptation in a murine model of congenital obstructive nephropathy.</a>	Congenital obstructive nephropathy is a common cause of chronic kidney disease and a leading indication for renal transplant in children.
January 01, 2013	<a href="#">Angiopoietin-2 functions as a Tie2 agonist in tumor models, where it limits the effects of VEGF inhibition.</a>	The angiopoietins Ang1 (ANGPT1) and Ang2 (ANGPT2) are secreted factors that bind to the endothelial cell-specific receptor tyrosine kinase Tie2 (TEK)
January 01, 2013	<a href="#">Pancreatic Cancer</a>	Ultrasonography is a powerful imaging modality that enables noninvasive, real-time visualization of abdominal organs and tissues.

January 01, 2013	<a href="#">Intraluminal gel ultrasound and eco-color doppler: new tools for the study of colorectal cancer in mice.</a>	AIM: Azoxymethane (AOM) is a potent carcinogen that induces colorectal cancer in mice.
January 01, 2013	<a href="#">Progressive development of polycystic kidney disease in the mouse model expressing Pkd1 extracellular domain.</a>	Autosomal dominant polycystic kidney disease (ADPKD) is characterized by slow progression of multiple cysts in both kidneys that lead to renal insuffi
January 01, 2013	<a href="#">Imaging of thyroid tumor angiogenesis with microbubbles targeted to vascular endothelial growth factor receptor type 2 in mice</a>	BACKGROUND: To evaluate whether Contrast Enhanced Ultrasound (CEUS) with microbubbles (MBs) targeted to VEGFR-2 is able to characterize in vivo the VEG
January 01, 2013	<a href="#">CHARACTERIZATION OF THYROID CANCER IN MOUSE MODELS USING HIGH-FREQUENCY QUANTITATIVE ULTRASOUND TECHNIQUES</a>	Currently, the evaluation of thyroid cancer relies on the use of fine-needle aspiration biopsy, as noninvasive imaging methods do not provide sufficie
December 11, 2012	<a href="#">Molecular application of spectral photoacoustic imaging in pancreatic cancer pathology</a>	Spectral imaging is an advanced photoacoustic (PA) mode that can discern optical absorption of contrast agent(s) in the tissue micro-environment.
November 01, 2012	<a href="#">The Vascular Disrupting Agent STA-9584 Exhibits Potent Antitumor Activity by Selectively Targeting Microvasculature at Both the Center and Periphery of Tumors</a>	Vascular disrupting agents (VDAs) are an emerging class of therapeutics targeting the existing vascular network of solid tumors.
July 01, 2012	<a href="#">In vitro and in vivo anticancer effects of destruxin B on human colorectal cancer.</a>	AIM: The study of the anticancer effects of destruxin B (DB) is rare and its anticancer mechanism remains unknown.
June 01, 2012	<a href="#">Assessment of endothelin-A receptor expression in subcutaneous and orthotopic thyroid carcinoma xenografts in vivo employing optical imaging methods.</a>	Endothelin (ET) receptor dysregulation has been described in a number of pathophysiological processes, including cardiovascular disorders, renal failu
May 15, 2012	<a href="#">Dinitroazetidines are a novel class of anticancer agents and hypoxia-activated radiation sensitizers developed from highly energetic materials.</a>	In an effort to develop cancer therapies that maximize cytotoxicity, while minimizing unwanted side effects, we studied a series of novel compounds ba
May 15, 2012	<a href="#">Dependence of Wilms tumor cells on signaling through insulin-like growth factor 1 in an orthotopic xenograft model targetable by specific receptor inhibition</a>	We have previously demonstrated an increased DNA copy number and expression of IGF1R to be associated with poor outcome in Wilms tumors.
May 15, 2012	<a href="#">Real-time monitoring of rare circulating hepatocellular carcinoma cells in an orthotopic model by in vivo flow cytometry assesses resection on metastasis.</a>	The fate of circulating tumor cells (CTC) is an important determinant of metastasis and recurrence, which leads to most deaths in hepatocellular carci
April 01, 2012	<a href="#">Vascular Normalization by Loss of Siah2 Results in Increased Chemotherapeutic Efficacy</a>	Tumor hypoxia is associated with resistance to antiangiogenic therapy and poor prognosis.
March 12, 2012	<a href="#">Gamma secretase inhibition promotes hypoxic necrosis in mouse pancreatic ductal adenocarcinoma.</a>	Pancreatic ductal adenocarcinoma (PDA) is a highly lethal disease that is refractory to medical intervention.
March 01, 2012	<a href="#">Oral infusion of pomegranate fruit extract inhibits prostate carcinogenesis in the TRAMP model.</a>	We earlier provided evidence that oral consumption of pomegranate fruit extract (PFE) inhibits prostate cancer (PCa) cell growth in nude mice.
March 01, 2012	<a href="#">Low-dose metronomic oral dosing of a prodrug of gemcitabine (LY2334737) causes antitumor effects in the absence of inhibition of systemic vasculogenesis.</a>	Metronomic chemotherapy refers to the close, regular administration of conventional chemotherapy drugs at relatively low, minimally toxic doses, with
February 15, 2012	<a href="#">Optical imaging with her2-targeted affibody molecules can monitor hsp90 treatment response in a breast cancer xenograft mouse model.</a>	PURPOSE: To determine whether optical imaging can be used for in vivo therapy response monitoring as an alternative to radionuclide techniques.

January 01, 2011	<a href="#">A Polymeric Nanoparticle Encapsulated Small-Molecule Inhibitor of Hedgehog Signaling (NanoHHI) Bypasses Secondary Mutational Resistance to Smoothed Antagonists</a>	Aberrant activation of the hedgehog (Hh) signaling pathway is one of the most prevalent abnormalities in human cancer.
January 01, 2011	<a href="#">Experimental orthotopic prostate tumor in nude mice: Techniques for local cell inoculation and three-dimensional ultrasound monitoring</a>	Objectives: Orthotopic prostate cancer models are of great importance for cancer research. Orthotopic models in mice have been described previously.
January 01, 2011	<a href="#">A comparison between detectors of high frequency oscillations</a>	Objective—High frequency oscillations (HFOs) are a biomarker of epileptogenicity.
January 01, 2011	<a href="#">Tumor development, growth characteristics and spectrum of genetic aberrations in the TH-MYCN mouse model of neuroblastoma.</a>	BACKGROUND: The TH-MYCN transgenic neuroblastoma model, with targeted MYCN expression to the developing neural crest, has been used to study neuroblas
December 06, 2011	<a href="#">Imaging guided trials of the angiogenesis inhibitor sunitinib in mouse models predict efficacy in pancreatic neuroendocrine but not ductal carcinoma.</a>	Preclinical trials in mice represent a critical step in the evaluation of experimental therapeutics.
December 01, 2011	<a href="#">Innate immune responses to Pseudomonas aeruginosa infection</a>	Selective inhibition of oncogenic targets and associated signaling pathways forms the basis of personalized cancer medicine.
December 01, 2011	<a href="#">Monitoring antivasular therapy in head and neck cancer xenografts using contrast-enhanced MR and US imaging.</a>	BACKGROUND: The overall goal of this study was to non-invasively monitor changes in blood flow of squamous cell carcinoma of the head and neck (SCCHN)
November 15, 2011	<a href="#">Volumetric and Angiogenic Evaluation of Antitumor Effects with Acoustic Liposome and High-Frequency Ultrasound</a>	Acoustic liposomes (AL) have their inherent echogenicity and can add functionality in serving as drug carriers with tissue specificity.
September 27, 2011	<a href="#">Monitoring transplanted islets by high-frequency ultrasound</a>	Islet transplantation is a cell replacement therapy to improve glycometabolic control in type 1 diabetic patients.
September 15, 2011	<a href="#">Mast Cell Targeting Hampers Prostate Adenocarcinoma Development but Promotes the Occurrence of Highly Malignant Neuroendocrine Cancers</a>	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	<a href="#">In vivo activity of combined PI3K/mTOR and MEK inhibition in a Kras(G12D);Pten deletion mouse model of ovarian cancer.</a>	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	<a href="#">Mutationally Activated BRAFV600E Elicits Papillary Thyroid Cancer in the Adult Mouse</a>	Mutated BRAF is detected in approximately 45% of papillary thyroid carcinomas (PTC).
June 01, 2011	<a href="#">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</a>	Purpose: We evaluated the feasibility of using targeted contrast enhanced micro-ultrasound imaging to assess intratumor perfusion and vascular endothe
June 01, 2011	<a href="#">Proangiogenic factor PIGF programs CD11b(+) myelomonocytes in breast cancer during differentiation of their hematopoietic progenitors.</a>	Tumor-mobilized bone marrow-derived CD11b(+) myeloid cells promote tumor angiogenesis, but how and when these cells acquire proangiogenic properties i
June 01, 2011	<a href="#">Effects of a synthetic PEG-ylated Tie-2 agonist peptide on endotoxemic lung injury and mortality.</a>	PURPOSE: To develop targeted molecular imaging probes for the noninvasive detection of breast cancer lymph node metastasis.
April 29, 2011	<a href="#">Preclinical Models for Neuroblastoma: Establishing a Baseline for Treatment</a>	BACKGROUND: Preclinical models of pediatric cancers are essential for testing new chemotherapeutic combinations for clinical trials.

April 21, 2011	<a href="#">In Vivo High-Frequency, Contrast-Enhanced Ultrasonography of Uveal Melanoma in Mice: Imaging Features and Histopathologic Correlations</a>	PURPOSE: To evaluate the usefulness of in vivo imaging of uveal melanoma in mice using high-frequency contrast-enhanced ultrasound (HF-CE-US) with 2D
April 01, 2011	<a href="#">Magnitude of enhanced permeability and retention effect in tumors with different phenotypes: 89Zr-albumin as a model system.</a>	UNLABELLED: Targeted nanoparticle-based technologies show increasing prevalence in radiotracer design.
April 01, 2011	<a href="#">A perspective on vascular disrupting agents that interact with tubulin: preclinical tumor imaging and biological assessment.</a>	The tumor microenvironment provides a rich source of potential targets for selective therapeutic intervention with properly designed anticancer agents
February 15, 2011	<a href="#">Fes Tyrosine Kinase Expression in the Tumor Niche Correlates with Enhanced Tumor Growth, Angiogenesis, Circulating Tumor Cells, Metastasis, and Infiltrating Macrophages</a>	Fes is a protein tyrosine kinase with cell autonomous oncogenic activities that are well established in cell culture and animal models, but its involv
February 01, 2011	<a href="#">Pharmacokinetic modeling of tumor bioluminescence implicates efflux, and not influx, as the bigger hurdle in cancer drug therapy.</a>	In vivo bioluminescence imaging is a powerful tool for assessing tumor burden and quantifying therapeutic response in xenograft models.
February 01, 2011	<a href="#">Potential Role of Coregistered Photoacoustic and Ultrasound Imaging in Ovarian Cancer Detection and Characterization</a>	Currently, there is no adequate technology to detect early stage ovarian cancers.
January 01, 2010	<a href="#">Use of ultrasound biomicroscopy to evaluate induced ovarian follicular growth and ovulation in mice.</a>	Recent advances in image technology, including significant gains in spatial resolution, have made realtime sequential ovarian evaluations possible in
January 01, 2010	<a href="#">Development of an orthotopic human pancreatic cancer xenograft model using ultrasound guided injection of cells.</a>	Mice have been employed as models of cancer for over a century, providing significant advances in our understanding of this multifaceted family of dis
January 01, 2010	<a href="#">Assessment and Monitoring Tumor Vascularity With Contrast-Enhanced Ultrasound Maximum Intensity Persistence Imaging</a>	Objectives: Contrast-enhanced ultrasound imaging is increasingly being used in the clinic for assessment of tissue vascularity.
January 01, 2010	<a href="#">High-Resolution Ultrasound in Research of Mouse Orthotopic Glioma and Ultrasound-Guided Cell Implant</a>	The purpose is to evaluate the feasibility of imaging mouse brain with high resolution ultrasound (HiRes US), and generation of mouse brain tumor (gli
January 01, 2010	<a href="#">Improved detection of regional melanoma metastasis using 18F-6-fluoro-N-[2-(diethylamino)ethyl] pyridine-3-carboxamide, a melanin-specific PET probe, by perilesional administration.</a>	UNLABELLED: The efficacy of differing routes of administration of 18F-6-fluoro-N-[2-(diethylamino)ethyl] pyridine-3-carboxamide (18F-MEL050), a new be
December 01, 2010	<a href="#">Pathogenesis of Renal Injury in the Megabladder Mouse: A Genetic Model of Congenital Obstructive Nephropathy</a>	Congenital obstructive nephropathy (CON) is the most common cause of chronic renal failure in children, often leading to end stage renal disease.
October 01, 2010	<a href="#">Anti-<math>\alpha</math>v integrin monoclonal antibody intetumumab enhances the efficacy of radiation therapy and reduces metastasis of human cancer xenografts in nude rats.</a>	We previously reported that intetumumab (CNTO 95), a fully human anti- $\alpha$ v integrin monoclonal antibody, is a radiosensitizer in mice with xenograft tum
April 01, 2010	<a href="#">Correlation of quantified contrast-enhanced sonography with in vivo tumor response.</a>	OBJECTIVE: The purpose of our study was to establish in vivo criteria for monitoring tumor treatment response using 3-dimensional (3D) volumetric gray
March 01, 2010	<a href="#">IFN-beta restricts tumor growth and sensitizes alveolar rhabdomyosarcoma to ionizing radiation.</a>	Ionizing radiation is an important component of multimodal therapy for alveolar rhabdomyosarcoma (ARMS).

March 01, 2010	<a href="#">Targeted contrast-enhanced ultrasound imaging of tumor angiogenesis with contrast microbubbles conjugated to integrin-binding knottin peptides.</a>	UNLABELLED: Targeted contrast-enhanced ultrasound imaging is increasingly being recognized as a powerful imaging tool for the detection and quantifica
January 01, 2009	<a href="#">Antiangiogenic Cancer Therapy : Monitoring with Molecular US and a Clinically Translatable Contrast Purpose : Methods : Results :</a>	Purpose: Materials and Methods: To develop and test human kinase insert domain receptor (KDR)-targeted microbubbles (MBs) (MB KDR ) for imaging KDR at
January 01, 2009	<a href="#">Correlation between 2- and 3- dimensional assessment of Tumor Volume and Vascular Density by Ultrasonography in a Transgenic mouse model of Mammary carcinoma</a>	Objective. Visualization and quantification of angiogenesis are instrumental in development of antian- giogenic therapy.
December 08, 2009	<a href="#">Complementarity of ultrasound and fluorescence imaging in an orthotopic mouse model of pancreatic cancer</a>	BACKGROUND: Pancreatic cancer is a devastating disease characterized by dismal 5-year survival rates and limited treatment options.
October 01, 2009	<a href="#">Morphological Ultrasound Microimaging of Thyroid in Living Mice</a>	The objective of the study was to explore high-frequency ultrasound (HFUS) for noninvasive microimaging of thyroid in living mice.
September 15, 2009	<a href="#">Inhibition of Tumor Growth Progression by Antiandrogens and mTOR Inhibitor in a Pten-Deficient Mouse Model of Prostate Cancer</a>	Androgen receptors have been shown to play a critical role in prostate cancer.
June 12, 2009	<a href="#">Inhibition of Hedgehog Signaling Enhances Delivery of Chemotherapy in a Mouse Model of Pancreatic Cancer</a>	Pancreatic ductal adenocarcinoma (PDA) is among the most lethal human cancers in part because it is insensitive to many chemotherapeutic drugs.
May 01, 2009	<a href="#">Sunitinib and PF-562,271 (FAK/Pyk2 inhibitor) effectively block growth and recovery of human hepatocellular carcinoma in a rat xenograft model.</a>	EXPERIMENTAL DESIGN: To investigate the antitumor effect of sunitinib and FAK/Pyk2 tyrosine kinase inhibitor (PF-562,271)combination therapy in vivo,
March 15, 2009	<a href="#">Quantitative ultrasound characterization of responses to radiotherapy in cancer mouse models.</a>	PURPOSE: Currently, no imaging modality is used routinely to assess tumor responses to radiotherapy within hours to days after the delivery of treatme
January 01, 2009	<a href="#">High-resolution ultrasound biomicroscopy for monitoring ovarian structures in mice</a>	BACKGROUND: Until recently, the limit of spatial resolution of ultrasound systems has prevented characterization of structures
December 23, 2008	<a href="#">Comparison of mouse mammary gland imaging techniques and applications: Reflectance confocal microscopy, GFP Imaging, and ultrasound</a>	BACKGROUND: Genetically engineered mouse models of mammary gland cancer enable the in vivo study of molecular mechanisms and signaling during developm
December 01, 2008	<a href="#">A method for assessing the microvasculature in a murine tumor model using contrast-enhanced ultrasonography.</a>	OBJECTIVE: The purpose of this study was to develop a method for assessing tumor vascularity in a preclinical model of breast cancer using contrast-en
November 15, 2008	<a href="#">Molecular imaging of therapeutic response to epidermal growth factor receptor blockade in colorectal cancer.</a>	PURPOSE: To evaluate noninvasive molecular imaging methods as correlative biomarkers of therapeutic efficacy of cetuximab in human colorectal cancer c
September 01, 2008	<a href="#">Dual-targeted Contrast Agent for US Assessment of Tumor Angiogenesis in Vivo</a>	Purpose: To develop and validate a dual-targeted ultrasound imaging agent that attaches to both vascular endothelial growth factor receptor-2 (VEGFR2)
September 01, 2008	<a href="#">An orally bioavailable small-molecule inhibitor of Hedgehog signaling inhibits tumor initiation and metastasis in pancreatic cancer.</a>	Recent evidence suggests that blockade of aberrant Hedgehog signaling can be exploited as a therapeutic strategy for pancreatic cancer.

May 01, 2008	<a href="#">Zebrafish as a Cancer Model</a>	The zebrafish has developed into an important model organism for biomedical research over the last decades.
January 15, 2008	<a href="#">Targeting Notch signaling in autoimmune and lymphoproliferative disease.</a>	Patients with autoimmune lymphoproliferative syndrome (ALPS) and systemic lupus erythematosus (SLE) have T-cell dysregulation and produce abnormal, ac
December 01, 2007	<a href="#">TRA-8 anti-DR5 monoclonal antibody and gemcitabine induce apoptosis and inhibit radiologically validated orthotopic pancreatic tumor growth.</a>	PURPOSE: To evaluate agonistic TRA-8 monoclonal antibody to human death receptor 5 (DR5) and gemcitabine in vitro and in an orthotopic pancreatic canc
August 01, 2007	<a href="#">Detecting vascular changes in tumour xenografts using micro-ultrasound and micro-ct following treatment with VEGFR-2 blocking antibodies.</a>	Blockade of vascular endothelial growth factor (VEGF) binding to its receptors on endothelial cells has been shown preclinically to induce tumour grow
July 17, 2007	<a href="#">Ultrasound biomicroscopy permits in vivo characterization of zebrafish liver tumors</a>	Zebrafish are a valuable vertebrate model to study carcinogenesis, but noninvasive imaging is challenging because adult fish are not transparent.
March 15, 2007	<a href="#">Functional neoangiogenesis imaging of genetically engineered mouse prostate cancer using three-dimensional power Doppler ultrasound.</a>	We report the first application of high-frequency three-dimensional power Doppler ultrasound imaging in a genetically engineered mouse (GEM) prostate
January 01, 2007	<a href="#">Endothelial Growth Factor Receptor</a>	Objective.
January 01, 2007	<a href="#">Ovarian Volume Measurements in Mice with high resolution ultrasonography</a>	The aim of our study was to evaluate the intraobserver and interobserver variability of ovarian volume measurements in mice with high-resolution 2-d
September 22, 2006	<a href="#">Therapy-induced acute recruitment of circulating endothelial progenitor cells to tumors.</a>	The contribution of bone marrow-derived circulating endothelial progenitor cells (CEPs) to tumor angiogenesis has been controversial, primarily because
September 15, 2006	<a href="#">Rapamycin improves lymphoproliferative disease in murine autoimmune lymphoproliferative syndrome (ALPS).</a>	Autoimmune lymphoproliferative syndrome (ALPS) is a disorder of abnormal lymphocyte survival caused by defective Fas-mediated apoptosis, leading to ly
July 14, 2006	<a href="#">Transgenic expression of Angiopoietin 1 in the liver leads to changes in lymphatic and blood vessel architecture.</a>	To investigate the possible role of the Angiopoietins in vessel remodelling, we overexpressed one of the angiopoietins, Angiopoietin-1 (Ang1), in the
May 21, 2006	<a href="#">Volume measurement variability in three-dimensional high-frequency ultrasound images of murine liver metastases</a>	The identification and quantification of tumour volume measurement variability is imperative for proper study design of longitudinal non-invasive imag
May 05, 2006	<a href="#">Nanosecond pulsed electric fields cause melanomas to self-destruct.</a>	We have discovered a new, drug-free therapy for treating solid skin tumors.
April 01, 2006	<a href="#">Targeted anti-vascular endothelial growth factor receptor-2 therapy leads to short-term and long-term impairment of vascular function and increase in tumor hypoxia.</a>	Because antiangiogenic therapies inhibit the growth of new tumor-associated blood vessels, as well as prune newly formed vasculature, they would be ex
November 01, 2005	<a href="#">Establishment of a serum tumor marker for preclinical trials of mouse prostate cancer models.</a>	Current prostate cancer research in both basic and preclinical trial studies employ genetically engineered mouse models.

November 01, 2005	<a href="#">The use of three-dimensional ultrasound micro-imaging to monitor prostate tumor development in a transgenic prostate cancer mouse model.</a>	Longitudinal studies of mouse cancer models required large cohorts since autopsy was the only reliable method to evaluate treatment efficacy.
June 15, 2005	<a href="#">Three-dimensional high-frequency ultrasound imaging for longitudinal evaluation of liver metastases in preclinical models.</a>	Liver metastasis is a clinically significant contributor to the mortality associated with melanoma, colon, and breast cancer.