

June 01, 2019	A near-infrared turn-on probe for in vivo chemoselective photoacoustic detection of fluoride ion	The detection of fluoride ion (F ⁻) in living subjects is of value for healthcare and environmental fields.
January 21, 2019	Targeting the perivascular niche sensitizes disseminated tumour cells to chemotherapy	The presence of disseminated tumour cells (DTCs) in bone marrow is predictive of poor metastasis-free survival of patients with breast cancer with loc
January 01, 2019	Imaging of the Mouse Lymphatic Sinus during Early Stage Lymph Node Metastasis Using Intranodal Lymphangiography with X-ray Micro-computed Tomography	Purpose: Lymph node (LN) metastasis is detected prior to distant metastasis in many types of cancer.
January 01, 2019	Radioembolization of Hepatocellular Carcinoma with Built-In Dosimetry: First in vivo Results with Uniformly-Sized, Biodegradable Microspheres Labeled with 188 Re	A common form of treatment for patients with hepatocellular carcinoma (HCC) is transarterial radioembolization (TARE) with non-degradable glass or res
December 24, 2018	Inflammation-Induced Intra-Amniotic inflammation induces preterm birth by Activating the NLRP3 inflammasome†	m labor and birth, the leading cause of perinatal mortality and morbidity worldwide.
December 12, 2018	Multimodality cellular and molecular imaging of concomitant tumour enhancement in a syngeneic mouse model of breast cancer metastasis	
December 10, 2018	Species-dependent extracranial manifestations of a brain seeking breast cancer cell line	Purpose Metastatic brain tumors pose a severe problem in the treatment of patients with breast carci- noma.
December 05, 2018	Persistent reduction in sialylation of cerebral glycoproteins following postnatal inflammatory exposure	Background: The extension of sepsis encompassing the preterm newborn's brain is often overlooked due to technical challenges in this highly vulnerable
December 04, 2018	Caspase Cleavage of Gelsolin Is an Inductive Cue for Pathologic Cardiac Hypertrophy	Background—Cardiac hypertrophy is an adaptive remodeling event that may improve or diminish contractile performance of the heart.
November 19, 2018	Noninvasive quantification of oxygen saturation in the portal and hepatic veins in healthy mice and those with colorectal liver metastases using QSM MRI	Purpose: This preclinical study investigated the use of QSM MRI to noninvasively measure venous oxygen saturation (SvO ₂) in the hepatic and portal vei

October 12, 2018	Repurposing simvastatin as a therapy for preterm labor: evidence from preclinical models	Preterm birth (PTB), the leading cause of neonatal morbidity and mortality, urgently requires novel therapeutic agents.
June 19, 2018	The oncolytic Adenovirus XVir-N-31 as a novel therapy in muscle-invasive bladder cancer	Muscle-invasive bladder cancer represents approximately 25% of patients diagnosed with bladder cancer and carries a significant risk of death.
January 01, 2018	Selective inhibition of the lactate transporter MCT4 reduces growth of invasive bladder cancer	Introduction & Objectives: The significance of lactate transporters has been recognized in various cancer types, but their role in urothelial carcinoma
January 01, 2018	Modulation of neuroinflammation and memory dysfunction using percutaneous vagus nerve stimulation in mice	Background: The vagus nerve is involved in regulating immunity and resolving inflammation.
January 01, 2018	Phosphatidylserine targeted single-walled carbon nanotubes for photothermal ablation of bladder cancer	© 2017 IOP Publishing Ltd.
January 01, 2018	Mesopore-Induced Aggregation of Cobalt Protoporphyrin for Photoacoustic Imaging and Antioxidant Protection of Stem Cells	With the ever-accelerating development of functional materials design and fabrication, various nanomaterial-based molecular imaging platforms with imp
January 01, 2018	Cranial irradiation increases tumor growth in experimental breast cancer brain metastasis	© 2018 John Wiley & Sons, Ltd.
January 01, 2018	Repeated administrations of cardiac progenitor cells are superior to a single administration of an equivalent cumulative dose	BACKGROUND We have recently found that 3 repeated doses (12×10 ⁶ each) of c-kit ⁺ POScardiac progenitor cells (CPCs) were markedly more effective than a si
January 01, 2018	Caveolin1 Identifies a Specific Subpopulation of Cerebral Cortex Callosal Projection Neurons (CPN) Including Dual Projecting Cortical Callosal/Frontal Projection Neurons (CPN/FPN)	The neocortex is composed of many distinct subtypes of neurons that must form precise subtype-specific connections to enable the cortex to perform com
January 01, 2018	Touch and tactile neuropathic pain sensitivity are set by corticospinal projections	Current models of somatosensory perception emphasize transmission from primary sensory neurons to the spinal cord and on to the brain ^{1–4} .

July 01, 2017	Metabotropic glutamate receptor 5 mediates the suppressive effect of 6-OHDA-induced model of Parkinson's disease on liver cancer	Numerous epidemiological studies suggested that there is a variable cancer risk in patients with Parkinson's disease (PD).
May 01, 2017	Activation of EphA1-Epha receptor axis attenuates diabetic nephropathy in mice	The Eph family of receptor tyrosine kinases serves as key modulators of various cellular functions, including inflammation, hypertrophy and fibrosis.
April 03, 2017	A novel treatment for metastatic lymph nodes using lymphatic delivery and photothermal therapy	Systemic delivery of an anti-cancer agent often leads to only a small fraction of the administered dose accumulating in target sites.
March 16, 2017	Repeated doses of cardiac mesenchymal cells are therapeutically superior to a single dose in mice with old myocardial infarction	We have recently demonstrated that repeated administrations of c-kit ^{POS} cardiac progenitor cells (CPCs) have cumulative beneficial effects in rats with
March 01, 2017	Murine ultrasound-guided transabdominal para-aortic injections of self-assembling type I collagen oligomers	Abdominal aortic aneurysms (AAAs) represent a potentially life-threatening condition that predominantly affects the infrarenal aorta.
February 02, 2017	Stellate cells drive maturation of the entorhinal-hippocampal circuit	The neural representation of space relies on a network of entorhinal-hippocampal cell types with firing patterns tuned to different abstract features
February 01, 2017	Single-Cell Analysis of SMN Reveals Its Broader Role in Neuromuscular Disease	The mechanism underlying selective motor neuron (MN) death remains an essential question in the MN disease field.
January 01, 2016	CD8α intraepithelial lymphocytes arise from two main thymic precursors	TCR $\alpha\beta$ +CD4-CD8 α +CD8 β - intestinal intraepithelial lymphocytes (CD8 $\alpha\alpha$ IELs) are an abundant population of thymus-derived T cells that protect the gut barrier
January 01, 2016	Monitoring of Blood Vessel Density Using Contrast-Enhanced High Frequency Ultrasound May Facilitate Early Diagnosis of Lymph Node Metastasis	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	Establishment of highly metastatic KRAS mutant lung cancer cell sublines in long-term three-dimensional low attachment cultures	Decreased cell-substratum adhesion is crucially involved in metastasis.
January 01, 2016	User-independent diffusion tensor imaging analysis pipelines in a rat model presenting ventriculomegalia: A comparison study	Automated analysis of diffusion tensor imaging (DTI) data is an appealing way to process large datasets in an unbiased manner.
January 01, 2016	Photoacoustic Imaging of Embryonic Stem Cell-Derived Cardiomyocytes in Living Hearts with Ultrasensitive Semiconducting Polymer Nanoparticles	Human embryonic stem cell-derived cardiomyocytes (hESC-CMs) have become promising tools to repair injured hearts.
January 01, 2016	Acquisition of Cholangiocarcinoma Traits during Advanced Hepatocellular Carcinoma Development in Mice	Past studies have identified hepatic tumors with mixed hepatocellular carcinoma (HCC) and cholangiocarcinoma (CC) characteristics that have a more agg
January 01, 2016	Intrathymic injection of hematopoietic progenitor cells establishes functional T cell development in a mouse model of severe combined immunodeficiency	BACKGROUND Even though hematopoietic stem cell transplantation can be curative in patients with severe combined immunodeficiency, there is a need for
January 01, 2016	Ultrasound-mediated delivery and distribution of polymeric nanoparticles in the normal brain parenchyma and melanoma metastases	The blood-brain barrier (BBB) prevents the passage of nearly all drugs into the brain, hindering brain cancer treatment.
January 01, 2016	Mechanical behavior and matrisome gene expression in the aneurysm-prone thoracic aorta of newborn lysyl oxidase knockout mice.	Mutations in lysyl oxidase (LOX) are associated with thoracic aortic aneurysm and dissection (TAAD). Mice that do not express Lox (Lox ^{0/0})
January 01, 2016	Dynamic weight bearing analysis is effective for evaluation of tendinopathy using a customized corridor with multi-directional force sensors in a rat model	Few studies discuss kinetic changes in tendinopathy models.
January 01, 2016	Tissue-directed Implantation Using Ultrasound Visualization for Development of Biologically Relevant Metastatic Tumor Xenografts	Background: Advances in cancer therapeutics depend on reliable in vivo model systems.

January 01, 2015	Free-hand ultrasound guidance permits safe and efficient minimally invasive intrathymic injections in both young and aged mice	The goal of this study was to evaluate whether use of an aseptic free-hand approach to ultrasound-guided injection facilitates injection into the thym
November 06, 2013	Selective Permeabilization of the Blood-Brain Barrier at Sites of Metastasis	BACKGROUND: Effective chemotherapeutics for primary systemic tumors have limited access to brain metastases because of the blood-brain barrier (BBB).
May 16, 2012	In vivo Ultrasound and Photoacoustic Monitoring of Mesenchymal Stem Cells Labeled with Gold Nanotracers	Longitudinal monitoring of cells is required in order to understand the role of delivered stem cells in therapeutic neovascularization.
January 01, 2011	ROR Beta induces barrel-like neuronal clusters in the developing neocortex	Neurons in layer IV of the rodent whisker somatosensory cortex are tangentially organized in periodic clusters called barrels, each of which is innerv
June 01, 2011	Effects of a synthetic PEG-ylated Tie-2 agonist peptide on endotoxemic lung injury and mortality.	PURPOSE: To develop targeted molecular imaging probes for the noninvasive detection of breast cancer lymph node metastasis.
January 01, 2010	Echocardiography-Guided Intramyocardial Injection Method in a Murine Model	Cardiac regenerative therapy has received attention as a potentially revolutionary approach for treating the damaged heart.
January 01, 2010	Development of an orthotopic human pancreatic cancer xenograft model using ultrasound guided injection of cells.	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	High-Resolution Ultrasound in Research of Mouse Orthotopic Glioma and Ultrasound-Guided Cell Implant	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, 2009	An alternative method for intrathymic injections in mice	The thymus is a bi-lobed lymphatic organ located in the anterior portion of the ventral thoracic cavity, just behind the sternum.