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| July 01, 2019 | Accuracy of Ultrasound-Guided versus Landmark-Guided Intra-articular Injection for Rat Knee Joints | Abstract—Our aim was to test the effectiveness of ultrasound-guided intra-articular (IA) injection into the knee joint of rodents by an inexperienced |
| 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 carcinoma. |
| 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. |

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| 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 carcinom |
| 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 ^{POS} cardiac progenitor cells (CPCs) were markedly more effective than a si |

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| 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 brain1–4. |
| 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-kitPOS cardiac progenitor cells (CPCs) have cumulative beneficial effects in rats wit |
| 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. |

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| 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 | 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 bar |
| 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 | 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 | 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 | 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???) |

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| 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 | 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 |

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| 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, 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. |