| Date       | Title                                                                                                            | Abstract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April 01, 2020 | 3D printed core-shell hydrogel fiber scaffolds with NIR-triggered drug release for localized therapy of breast cancer | Localized therapy using hydrogels-based drug delivery system (DDS) is a promising strategy for the treatment of diseases such as cancer in superficial                                                                                                  |
| January 01, 2020 | Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye Labeled Cargo       | We report a new approach to monitor drug release from nanocarriers via a paclitaxel–methylene blue conjugate (PTX-MB) with redox activity.                                                                                                                                                                                                                                                                                          |
| December 14, 2018 | Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging                | Nanoparticles are submicrometer in size and are used in a variety of ways in the biomedical field.                                                                                                                                                                                                                                                                                                                             |
| January 01, 2018 | Therapy-educated mesenchymal stem cells enrich for tumor initiating cells                                       | Stromal cells residing in the tumor microenvironment contribute to the development of therapy resistance.                                                                                                                                                                                                                                                                                                                         |
| June 20, 2016 | Preclinical efficacy of bevacizumab with CRLX101, an investigational nanoparticle-drug conjugate, in treatment of metastatic triple-negative breast cancer | VEGF-pathway targeting antiangiogenic drugs, such as bevacizumab, when combined with chemotherapy have changed clinical practice for the treatment of                                                                                                                                                                                                 |
| January 01, 2015 | Co-option of Liver Vessels and Not Sprouting Angiogenesis Drives Acquired Sorafenib Resistance in Hepatocellular Carcinoma | Background: The anti-angiogenic Sorafenib is the only approved systemic therapy for advanced hepatocellular carcinoma (HCC).                                                                                                                                                                                                                                                                                               |
| September 22, 2015 | Sequential Drug Release and Enhanced Photothermal and Photoacoustic Effect of Hybrid Reduced Graphene Oxide-Loaded Ultrasmall Gold Nanorod Vesicles for Cancer Therapy | We report a hybrid reduced graphene oxide (rGO)-loaded ultrasmall plasmonic gold nanorod vesicle (rGO-AuNRVe) (~65 nm in size) with remarkably ampli                                                                                                                                                                                                                       |
| September 10, 2014 | A dual gold nanoparticle system for mesenchymal stem cell tracking                                             | Stem cell-based therapies have demonstrated improved outcomes in preclinical and clinical trials for treating cardiovascular ischemic diseases.                                                                                                                                                                                                                                                                                       |
| July 09, 2014 | Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis | Chronic intestinal inflammation is associated with pathological angiogenesis that further amplifies the inflammatory response.                                                                                                                                                                                                                                                                                                       |
| December 18, 2013 | Ultrasound-guided intra-tumor injection of combined immunotherapy cures mice from orthotopic prostate cancer     | Intra-tumor injection of immunotherapeutic agents is often the most effective, likely because of concomitant modification of tumor microenvironment.                                                                                                                                                                                                                                                                               |
| November 01, 2013 | In vitro and in vivo mapping of drug release after laser ablation thermal therapy with doxorubicin-loaded hollow gold nanoshells using fluorescence and photoacoustic imaging | Doxorubicin-loaded hollow nanoshells (Dox@PEG-HAuNS) increases the efficacy of photothermal ablation (PTA) by not only mediating efficient PTA but als                                                                                                                                                                                                                                                                                    |
| November 01, 2013 | Development and optimization of near-IR contrast agents for immune cell tracking                               | Gold nanorods (NRs) are attractive for in vivo imaging due to their high optical cross-sections and tunable absorbance.                                                                                                                                                                                                                                                                                                      |
| July 23, 2013 | CTGF antagonism with mAb FG-3019 enhances chemotherapy response without increasing drug delivery in murine ductal pancreas cancer | Pancreatic ductal adenocarcinoma (PDA) is characterized by abundant desmoplasia and poor tissue perfusion.                                                                                                                                                                                                                                                                                                                  |
| April 01, 2013 | Rapid decrease in tumor perfusion following VEGF blockade predicts long-term tumor growth inhibition in preclinical tumor models | Vascular endothelial growth factor (VEGF) is a key upstream mediator of tumor angiogenesis, and blockade of VEGF can inhibit tumor angiogenesis and de                                                                                                                                                                                                                                                                 |
| November 01, 2012 | The Vascular Disrupting Agent STA-9584 Exhibits Potent Antitumor Activity by Selectively Targeting Microvasculature at Both the Center and Periphery of Tumors | Vascular disrupting agents (VDAs) are an emerging class of therapeutics targeting the existing vascular network of solid tumors.                                                                                                                                                                                                                                                                                                |
| Date       | Title                                                                 | Abstract/Comment                                                                 |
|------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| July 06, 2012 | Enhanced angiogenic and cardiomyocyte differentiation capacity of epigenetically reprogrammed mouse and human endothelial progenitor cells augments their efficacy for ischemic myocardial repair. | RATIONALE: Although bone marrow endothelial progenitor cell (EPC)-based therapies improve the symptoms in patients with ischemic heart disease, their |
| 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. |
| March 01, 2010 | JFN-beta restricts tumor growth and sensitizes alveolar rhabdomyosarcoma to ionizing radiation. | Ionizing radiation is an important component of multimodal therapy for alveolar rhabdomyosarcoma (ARMS). |
| January 01, 2009 | Antiangiogenic Cancer Therapy : Monitoring with Molecular US and a Clinically Translatable Contrast Purpose : Methods : Results : | 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, 2008 | Monitoring kidney safety in drug development : Emerging technologies and their implications | Drug-induced kidney injury is a serious and not uncommon adverse event which needs to be considered during drug development. |