

User Publication List

2021

1. Sonoporation generates downstream cellular impact after membrane resealing, Duan et al., Scientific Reports, 2021, 11:5161. ■ Prime
2. Helical toroid phantom for 3D flow imaging investigations, Chee et al., Phys. Med. Biol., 2021, 66:045029. ■ Prime
3. Anti-inflammatory and Anti-thrombotic Efficacy of Targeted Ultrasound Microbubbles on LPS-induced HUVEC Cells, Sun et al., Anticancer Research, 2021, 41:4761-4769. ■ Labeler
4. Evaluation of antitumor immunity by a combination treatment of high-dose irradiation, anti-PDL1, and anti-angiogenic therapy in murine lung tumors, Chen et al., Cancer Immunology, Immunotherapy, 2021, 70:391-404. ■ Prime

2020

5. Contrast-Enhanced Urodynamic Vector Projectile Imaging (CE-UroVPI) for Urethral Voiding Visualization: Principles and Phantom Studies, Ishii et al., Urology, 2020, 140:171-177. ■ Prime
6. Contrast-enhanced plane-wave ultrasound imaging of the rat eye, Urs et al., Exp Eye Res., 2020, 193:107986. ■ Prime
7. Window-Modulated Compounding Nakagami Parameter Ratio Approach for Assessing Muscle Perfusion with Contrast-Enhanced Ultrasound Imaging, Lin et al., Sensors, 2020, 20:3584. ■ Prime
8. 40-MHz high-frequency vector Doppler imaging for superficial venous valve flow estimation, Huang et al., Med Phys., 2020, 47:4020-4031. ■ Prime
9. A novel UTMD system facilitating nucleic acid delivery into MDA-MB-231 cells, Zhang et al., Bioscience Reports, 2020, 40:BSR20192573. ■ Trans+
10. Expression of Neprilysin in Skeletal Muscle by Ultrasound-Mediated Gene Transfer (Sonoporation) Reduces Amyloid Burden for AD, Li et al., Mol Ther Methods Clin Dev., 2020, 17:300-308. ■ Trans+
11. Dual-Mode Contrast Agents with RGD-Modified Polymer for Tumour-Targeted US/NIRF Imaging, Nie et al., OncoTargets and Therapy, 2020, 13:8919-8929. ■ Labeler
12. VEGFR1-Targeted Contrast-Enhanced Ultrasound Imaging Quantification of Vasculogenic Mimicry Microcirculation in a Mouse Model of Choroidal Melanoma, Liu et al., Transl Vis Sci Technol., 2020, 9:4. ■ Labeler

2019

13. High frame rate doppler ultrasound bandwidth imaging for flow instability mapping, Yiu et al., *Med Phys.*, 2019, 46:1620-1633. ■ Prime
14. Focused Ultrasound Improves NK-92MI Cells Infiltration Into Tumors, Yang et al., *Front Pharmacol.*, 2019, 10:326. ■ Trans+
15. Non-localized Increase in Lipid Content and Striation Pattern Formation Characterize the Sonoporated Plasma Membrane, Hu et al., *Ultrasound Med Biol.*, 2019, 45(11):3005-3017. ■ Trans+
16. The effects of ultrasound-targeted microbubble destruction (UTMD) carrying IL-8 monoclonal antibody on the inflammatory responses and stability of atherosclerotic plaques, Yang et al., *Biomed Pharmacother.*, 2019, 118:109161. ■ Prime
17. Concurrent Osteosarcoma Theranostic Strategy Using Contrast-Enhanced Ultrasound and Drug-Loaded Bubbles, Kuo et al., *Pharmaceutics*, 2019, 11(5):223. ■ Deliver
18. Development of a PD-L1-Expressing Orthotopic Liver Cancer Model: Implications for Immunotherapy for Hepatocellular Carcinoma, Ou et al., *Liver Cancer*, 2019, 8(3):155-171. ■ Prime
19. Insulin-like growth factor binding protein related protein 1 knockdown attenuates hepatic fibrosis via the regulation of MMPs/TIMPs in mice, Ren et al., *Hepatobiliary Pancreat Dis Int.*, 2019, 18(1):38-47. ■ Trans+

2018

20. Characterization of different bubble formulations for blood-brain barrier opening using a focused ultrasound system with acoustic feedback control, Bing et al., *Scientific Reports*, 2018, 8(1):7986. ■ Prime
21. Assessment of Thrombotic Risk in Atrial Fibrillation with Ultrasound Molecular Imaging of P-Selectin, Jing et al., *Thromb Haemost.*, 2018, 118(02):388-400. ■ Labeler
22. Dual-Targeted Microbubbles Specific to Integrin $\alpha V\beta 3$ and Vascular Endothelial Growth Factor Receptor 2 for Ultrasonography Evaluation of Tumor Angiogenesis, Yuan et al., *Ultrasound Med Biol.*, 2018, 44(7):1460-1467. ■ Labeler

2017

23. Characterization of Different Microbubbles in Assisting Focused Ultrasound-Induced Blood-Brain Barrier Opening, Wu et al., *Scientific Reports*, 2017, 7:46689. ■ Prime
24. Contrast-Enhanced Ultrasound Imaging Quantification of Adventitial Vasa Vasorum in a Rabbit Model of Varying Degrees of Atherosclerosis, Li et al., *Scientific Reports*, 2017, 7(1):7032. ■ Prime