

## Trust Bio-Sonics USphere Series

### References

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#### Prime

1. Lin, H. C., Huang, Y. F., & Tyan, Y. C. (2024). Exploring nonlinear harmonic signals of ultrasound contrast agents: Advancing quantitative parameters for improved microvascular perfusion assessment. *Biomedical Signal Processing and Control*, 95, 106445. <https://doi.org/10.1016/J.BSPC.2024.106445>
2. Ul Banna, H., Mitchell, B., Chen, S., & Palko, J. (2023). Super-Resolution Ultrasound Localization Microscopy Using High-Frequency Ultrasound to Measure Ocular Perfusion Velocity in the Rat Eye. *Bioengineering*, 10(6), 689. <https://doi.org/10.3390/BIOENGINEERING10060689/S1>
3. Urs, R., Burgess, M., Ketterling, J., Yang, X., Tezel, G., & Silverman, R. H. (2023). Ultrasound Localization Microscopy Imaging of Blood-Flow in the Rat Eye. *Investigative Ophthalmology & Visual Science*, 64(8), 5037-5037.
4. Chen, J. L. Y., Pan, C. K., Huang, Y. Sen, Tsai, C. Y., Wang, C. W., Lin, Y. L., Kuo, S. H., & Shieh, M. J. (2021). Evaluation of antitumor immunity by a combination treatment of high-dose irradiation, anti-PDL1, and anti-angiogenic therapy in murine lung tumors. *Cancer Immunology, Immunotherapy : CII*, 70(2), 391–404. <https://doi.org/10.1007/S00262-020-02690-W>
5. Duan, X., Zhou, Q., Wan, J. M. F., & Yu, A. C. H. (2021). Sonoporation generates downstream cellular impact after membrane resealing. *Scientific Reports* 2021 11:1, 11(1), 1-12. <https://doi.org/10.1038/s41598-021-84341-3>
6. Oishi, M., Kinoshita, H., Fujii, T., - al, Lin, T. Y., Baker, S. E., Duoss, E. B., Y Chee, A. J., Ishii, T., S Yiu, B. Y., & H Yu, A. C. (2021). Helical toroid phantom for 3D flow imaging investigations. *Physics in Medicine & Biology*, 66(4), 045029. <https://doi.org/10.1088/1361-6560/ABDA99>
7. Huang, H., Chen, P. Y., & Huang, C. C. (2020). 40-MHz high-frequency vector Doppler imaging for superficial venous valve flow estimation. *Medical Physics*, 47(9), 4020–4031. <https://doi.org/10.1002/MP.14362>
8. Ishii, T., Nahas, H., Yiu, B. Y. S., Chee, A. J. Y., & Yu, A. C. H. (2020). Contrast-Enhanced Urodynamic Vector Projectile Imaging (CE-UroVPI) for Urethral Voiding Visualization: Principles and Phantom Studies. *Urology*, 140, 171–177. <https://doi.org/10.1016/J.UROLOGY.2020.03.005>
9. Lin, H. C., & Wang, S. H. (2020). Window-Modulated Compounding Nakagami Parameter Ratio Approach for Assessing Muscle Perfusion with Contrast-Enhanced Ultrasound Imaging. *Sensors* 2020, Vol. 20, Page 3584, 20(12), 3584. <https://doi.org/10.3390/S20123584>
10. Urs, R., Ketterling, J. A., Nelson, I., Yang, X., Tezel, G., & Silverman, R. H. (2020). Contrast-Enhanced Ultrasound Imaging of Blood-Flow in the Rat Eye. *Investigative Ophthalmology & Visual Science*, 61(7), 1873-1873.

11. Urs, R., Ketterling, J. A., Tezel, G., & Silverman, R. H. (2020). Contrast-enhanced plane-wave ultrasound imaging of the rat eye. *Experimental Eye Research*, 193, 107986.  
<https://doi.org/10.1016/J.EXER.2020.107986>
12. Ou, D. L., Lin, Y. Y., Hsu, C. L., Lin, Y. Y., Chen, C. W., Yu, J. S., Miaw, S. C., Hsu, P. N., Cheng, A. L., & Hsu, C. (2019). Development of a PD-L1-Expressing Orthotopic Liver Cancer Model: Implications for Immunotherapy for Hepatocellular Carcinoma. *Liver Cancer*, 8(3), 155–171.  
<https://doi.org/10.1159/000489318>
13. Yang, H., Sun, Y., Wei, J., Xu, L., Tang, Y., Yang, L., Zhang, X., & Lu, Y. (2019). The effects of ultrasound-targeted microbubble destruction (UTMD) carrying IL-8 monoclonal antibody on the inflammatory responses and stability of atherosclerotic plaques. *Biomedicine & Pharmacotherapy*, 118, 109161.  
<https://doi.org/10.1016/J.BIOPHA.2019.109161>
14. Yiu, B. Y. S., Chee, A. J. Y., Tang, G., Luo, W., & Yu, A. C. H. (2019). High frame rate doppler ultrasound bandwidth imaging for flow instability mapping. *Medical Physics*, 46(4), 1620–1633.  
<https://doi.org/10.1002/MP.13437>
15. Bing, C., Hong, Y., Hernandez, C., Rich, M., Cheng, B., Munaweera, I., Szczepanski, D., Xi, Y., Bolding, M., Exner, A., & Chopra, R. (2018). Characterization of different bubble formulations for blood-brain barrier opening using a focused ultrasound system with acoustic feedback control. *Scientific Reports* 2018 8:1, 8(1), 1–12. <https://doi.org/10.1038/s41598-018-26330-7>
16. Li, X., Zhang, R., Li, Z., Ning, C., Wang, Z., Dang, M., Peng, Y., Han, X., Sun, L., & Tian, J. (2017). Contrast-Enhanced Ultrasound Imaging Quantification of Adventitial Vasa Vasorum in a Rabbit Model of Varying Degrees of Atherosclerosis. *Scientific Reports* 2017 7:1, 7(1), 1–9. <https://doi.org/10.1038/s41598-017-06127-w>
17. Wu, S. K., Chu, P. C., Chai, W. Y., Kang, S. T., Tsai, C. H., Fan, C. H., Yeh, C. K., & Liu, H. L. (2017). Characterization of Different Microbubbles in Assisting Focused Ultrasound-Induced Blood-Brain Barrier Opening. *Scientific Reports* 2017 7:1, 7(1), 1–11. <https://doi.org/10.1038/srep46689>

## Labeler

18. Chen, J., Yang, Y., Li, Y., Xu, L., Zhao, C., Chen, Q., & Lu, Y. (2023). Targeted microbubbles combined with low-power focused ultrasound promote the thrombolysis of acute deep vein thrombosis. *Frontiers in Bioengineering and Biotechnology*, 11, 1163405. [https://doi.org/10.3389/FBIOE.2023.1163405/BIBTEX](https://doi.org/10.3389/FBIOE.2023.1163405)
19. Sun, J., Pan, S., Yu, H., Hu, H., Sun, Y., Yang, Z., Hoffman, R. M., & Yuan, H. (2021). Anti-inflammatory and Anti-thrombotic Efficacy of Targeted Ultrasound Microbubbles on LPS-induced HUVEC Cells. *Anticancer Research*, 41(10), 4761–4769. <https://doi.org/10.21873/ANTICANRES.15291>
20. Liu, H., Gao, M., Gu, J., Wan, X., Wang, H., Gu, Q., Zhou, Y., & Sun, X. (2020). VEGFR1-Targeted Contrast-Enhanced Ultrasound Imaging Quantification of Vasculogenic Mimicry Microcirculation in a Mouse Model of Choroidal Melanoma. *Translational Vision Science & Technology*, 9(3), 4–4.  
<https://doi.org/10.1167/TVST.9.3.4>

21. Nie, Z., Luo, N., Liu, J., Zhang, Y., Zeng, X., & Su, D. (2020). Dual-Mode Contrast Agents with RGD-Modified Polymer for Tumour-Targeted US/NIRF Imaging. *OncoTargets and Therapy*, 13, 8919–8929.  
<https://doi.org/10.2147/OTT.S256044>
22. Jing, Y., Hu, Y., Li, H., Wang, J., Si, X., Zheng, H., Liu, J., Liao, W., Liao, Y., & Bin, J. (2018). Assessment of Thrombotic Risk in Atrial Fibrillation with Ultrasound Molecular Imaging of P-Selectin. *Thrombosis and Haemostasis*, 118(2), 388–400. <https://doi.org/10.1160/TH17-02-0103/ID/JR170103-4/BIB>
23. Yuan, H. xia, Wang, W. ping, Wen, J. xian, Lin, L. wu, Exner, A. A., Guan, P. shan, & Chen, X. jun. (2018). Dual-Targeted Microbubbles Specific to Integrin αVβ3 and Vascular Endothelial Growth Factor Receptor 2 for Ultrasonography Evaluation of Tumor Angiogenesis. *Ultrasound in Medicine & Biology*, 44(7), 1460–1467.  
<https://doi.org/10.1016/j.ultrasmdbio.2018.03.022>

**Trans+**

24. Shi, Y., Weng, W., Chen, M., Huang, H., Chen, X., Peng, Y., & Hu, Y. (2023). Improving DNA vaccination performance through a new microbubble design and an optimized sonoporation protocol. *Ultrasonics Sonochemistry*, 101, 106685. <https://doi.org/10.1016/j.ultronch.2023.106685>
25. Li, Y., Wang, Y., Wang, J., Chong, K. Y., Xu, J., Liu, Z., & Shan, C. (2020). Expression of Neprilysin in Skeletal Muscle by Ultrasound-Mediated Gene Transfer (Sonoporation) Reduces Amyloid Burden for AD. *Molecular Therapy: Methods & Clinical Development*, 17, 300–308. <https://doi.org/10.1016/j.omtm.2019.12.012>
26. Zhang, H., Li, Y., Rao, F., Liufu, C., Wang, Y., & Chen, Z. (2020). A novel UTMD system facilitating nucleic acid delivery into MDA-MB-231 cells. *Bioscience Reports*, 40(2), 20192573.  
<https://doi.org/10.1042/BSR20192573/221955>
27. Hu, Y., Huang, H., Chen, M., & Shen, Y. (2019). Non-localized Increase in Lipid Content and Striation Pattern Formation Characterize the Sonoporated Plasma Membrane. *Ultrasound in Medicine & Biology*, 45(11), 3005–3017. <https://doi.org/10.1016/j.ultrasmdbio.2019.07.411>
28. Ren, J. J., Huang, T. J., Zhang, Q. Q., Zhang, H. Y., Guo, X. H., Fan, H. Q., Li, R. K., & Liu, L. X. (2019). Insulin-like growth factor binding protein related protein 1 knockdown attenuates hepatic fibrosis via the regulation of MMPs/TIMPs in mice. *Hepatobiliary & Pancreatic Diseases International : HBPD INT*, 18(1), 38–47.  
<https://doi.org/10.1016/j.hbpd.2018.08.008>
29. Yang, C., Du, M., Yan, F., & Chen, Z. (2019). Focused Ultrasound Improves NK-92MI Cells Infiltration Into Tumors. *Frontiers in Pharmacology*, 10(MAR). <https://doi.org/10.3389/fphar.2019.00326>

**Deliver**

30. Kuo, T. T., Wang, C. H., Wang, J. Y., Chiou, H. J., Fan, C. H., & Yeh, C. K. (2019). Concurrent Osteosarcoma Theranostic Strategy Using Contrast-Enhanced Ultrasound and Drug-Loaded Bubbles. *Pharmaceutics*, 11(5). <https://doi.org/10.3390/PHARMACEUTICS11050223>