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Radionuclide Therapy Radiation Protection and Safety Radioactivity Measurement and Dosimetry

Troy Zhou, Ph.D., D.A.B.R., D.A.B.S.N.M.

Director Senior Diagnostic & Nuclear Medicine Physicist

- 1. Lungren, MP, Yoshizumi, TT, Brady, SL, Toncheva, G, Anderson-Evans, C, Lowry C, Zhou, X, Enterline, D, Frush, D, Hurwitz, LM, Radiation Dose Estimations to the Thorax Using Organ-based Dose Modulation. American Journal of Roentgenology, 2012 July;199(1):W65-73
- 2. Zhou, X., Both, S., Zhu, T. C., **Determination of Correction Factors for 2D Diode Array Measurements in MV Photon Beams.** Medical Physics, 2009. 36(2):523-9
- 3. Zhou, X., Zhu, T.C., Interstitial Diffuse Optical Tomography Using an Adjoint Model with Linear Sources. Proc. SPIE 2008, 6845, 68450C (2008)
- 4. Zhou, X., Chen, B., Hoopes, P. J., Hasan, T., and Pogue, B. W., **Peptide-induced Inflammatory Increase in Vascular Permeability Improves Photosensitizer Delivery and Inter-subject Photodynamic Treatment Efficacy.** Radiation Research, 2007.168: pg. 299-307
- Zhou, X., Pogue, B. W., Chen, B., Demidenko, E., Joshi, R., Hoopes, J., and Hasan, T., Pretreatment Photosensitizer Dosimetry Reduces Variation in Tumor Response. International Journal of Radiation Oncology Biology Physics, 2006. 64(4): pg. 1211-1220
- 6. Zhou, X., Chen, B., Hoopes, P. J., Hasan, T., and Pogue, B. W., **Tumor Vascular Area Correlates with Photosensitizer Uptake: Analysis of Verteporfin Microvascular Delivery in the Dunning Rat Prostate Tumor.** Photochemistry and Photobiology, 2006. 82(5): pg. 1348-1357

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Imaging and Radiation Oncology

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- 7. Chen, B., Pogue, B. W., Zhou, X., O'Hara, J. A., Solban, N., Demidenko, E., Hoopes, P. J., and Hasan, T., **Effect of Tumor Host Microenvironment on Photodynamic Therapy in a Rat Prostate Tumor Model.** Clinical Cancer Research, 2005. 11(2 Pt 1): pg. 720
- 8. Pogue, B. W., Chen, B., Zhou, X. and Hoopes, P. J., **Analysis of Sampling Volume and Tissue Heterogeneity on the in Vivo Detection of Fluorescence.** Journal of Biomedical Optics, 2005. 10(4): pg. 41206
- 9. Zhou, X., Pogue, B. W., Chen, B., and Hasan, T., **Analysis of Effective Molecular Diffusion Rates for Verteporfin in Subcutaneous Versus Orthotopic Dunning Prostate Tumors.** Photochemistry and Photobiology, 2004. 79(4): pg. 323-331

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