

- Koulov, A. V.; Stucker, K.; Lakshmi, C.; Robinson, J. P.; Smith, B. D. *Detection of Apoptotic Cells using a Synthetic Fluorescent Sensor for Membrane Surfaces that Contain Phosphatidylserine*. Cell Death Diff. 2003, 10, 1357-1359.
- Lakshmi, C. Hanshaw, R. G.; Smith, B. D. *Fluorophore Linked Zinc (II) Dipicolylamine Coordination Complexes as Sensors for Phosphatidylserine Containing Membranes*. Tetrahedron, 2004, 60, 11307-11315.
- Koulov, A. V.; Hanshaw, R. G.; Stucker, K. A.; Lakshmi, C.; Bradley D. Smith, B. D. *Biophysical Studies of a Synthetic Mimic of the Apoptosis-detecting Protein Annexin V*. Israel. J. Chem. 2005, 45, 373-379.
- I Hanshaw, R. G.; O'Neil, E. J.; Foley, M.; Carpenter, R. T.; Smith, B. D. *Indicator Displacement Assays that Detect Bilayer Membranes Enriched in Phosphatidylserine*. J. Materials Chem. 2005, 15, 2707 – 2713
- Hanshaw, R. G.; Lakshmi, C.; Lambert, T. N.; Smith, B. D. *Fluorescent Detection of Apoptotic Cells using a Family of Zinc Coordination Complexes with a Selective Affinity for Membrane Surfaces that are Enriched with Phosphatidylserine*. ChemBiochem. 2005, 12, 2214-2220.
- Hanshaw, R. G.; Smith, B. D. *New Reagents for Phosphatidylserine Recognition and Detection of Apoptosis*. Bioorg. Med. Chem. 2005, 13, 5035-5042.
- Leevy, W. M. Johnson, J. R.; Lakshmi, C.; Morris, J.; Marquez, M.; Smith, B. D.; *Selective Recognition of Bacterial Membranes by Zinc (II)-Coordination Complexes*. Chem. Comm., 2006, 1595-1597.
- Piwnica-Worms, D.; Smith, B. D. *Optical Imaging of Bacterial Infection in Living Mice Using a Fluorescent Near-Infrared Molecular Probe*. J. Am. Chem Soc., 2006, 128, 16476-16477.
- DiVittorio, K. M.; Johnson, J. R.; Johansson, E.; Reynolds, A. J.; Jolliffe, K. A.; Smith, B. D.; *Synthetic Peptides with Selective Affinity for Apoptotic Cells*. Org. Biomol. Chem., 2006, 4, 1966 - 1976.
- Leevy, W.; Serazin, N.; Smith, B.; *Optical Imaging of Bacterial Infection Models*. Drug Discov. Today Dis. Models, 2006, 4, 91-97.
- Johnson, J. R.; Fu, N.; Arunkumar, E.; Leevy, W. M.; Gammon, S. T.; Piwnica-Worms, D.; Smith, B. D. *Angew . Squaraine-Rotaxanes: Superior Substitutes for Cy-5 in Molecular Probes for Near-Infrared Fluorescence Cell Imaging*. Chem. Int. Ed, 2007, 46, 5528-5531.
- DiVittorio, K. M.; Leevy, W. M.; O'Neil, E. J.; Johnson, J. R.; Vakulenko, S.; Morris, J. D. Rosek, K. D.; Serazin, N.; Hilkert, S.; Hurley, S.; Marquez, M.; Smith, B. D. *Zinc(II)-Coordination Complexes as Membrane Active Fluorescent Probes and Antibiotics*. ChemBiochem, 2008, 9, 286-293.
- Johnson, J. R.; Jiang, H.; Smith B. D. *Zinc (II)-Coordinated Oligotyrosine: A New Class of Cell Penetrating Peptide*. Bioconj. Chem. 2008, 19, 1033-1039. Chosen by editor as the cover article.
- Leevy, W. M.; Gammon, S. T.; Johnson, J. R.; Lampkins, A. J.; Jiang, H.; Marquez, M.; Piwinica-Worms, D.; Smith, B. D. *Non-Invasive Optical Imaging of Staphylococcus Aureus Bacterial Infection in Living Mice Using a Bis-Dipicolylamine-Zinc(II) Affinity Group Conjugated to a Near Infrared Fluorophore*. Bioconj. Chem. 2008, 19, 686-692.
- Leevy, W. M.; Lambert, T. N.; Johnson, J. R.; Morris, J.; Smith, B. D.; *Quantum Dot Probes for Bacteria Distinguish Escherichia coli Mutants and Permit In Vivo Imaging*. Chem. Comm. 2008, 2331-2333. Highlighted by the journal as a Hot Paper.
- Hope-Roberts, M., Wainwright, M.; Horobin, R.W; *Real Time Imaging of Bacteria in Living Mice Using a Fluorescent Dye*. Biotechnic & Histochemistry. 2010, Early Online 1-4.
- Smith, B. A.; Akers, W. J.; Leevy, W. M.; Lampkins, A. J.; Xiao, S.; Wolter, W.; Suckow, M. A.; Achilefu, S.; Smith, B. D. *Optical Imaging of Mammary and Prostate Tumors in Living Animals Using a Synthetic Near Infrared Zinc(II)-Dipicolylamine Probe for Anionic Cell Surfaces*. J. Amer. Chem. Soc. 2010, 132, 67-69.
- White, A. G.; Fu, N.; Leevy, W. M.; Lee, J-L.; Blasco, M. A.; Smith, B. D.; *Optical Imaging of Bacterial Infection in Living Mice Using Deep-Red Fluorescent Squaraine Rotaxane Probes*. Bioconj. Chem. 2010, 21, 1297-1304.

- Baumes, J. M.; Gassensmith, J. J.; Giblin, J.; Lee, J.-J.; White, A. G.; Culligan, W. J.; Leevy, W. M.; Kuno, M.; Smith, B. D.; *Storable, Thermally Activated, Near-Infrared Chemiluminescent Dyes and Dye-Stained Microparticles for Optical Imaging*. Nature Chem. 2010, 2, 1025-1030.
- Smith, B. A.; Xiao, S.; Wolter, W.; Wheeler, J.; Suckow, M. A.; Smith, B. D.; *In Vivo Targeting of Cell Death Using a Synthetic Fluorescent Molecular Probe*. Apoptosis, 2011, 16, 722-731
- Smith, B. A.; Gammon, S. T.; Xiao, S.; Wang, W.; Chapman, S.; Ryan McDermott, R.; Suckow, M. A.; Johnson, J. R.; Piwnica-Worms, D.; Gokel, G. W.; Smith, B. D.; Leevy, W. M.; *In Vivo Optical Imaging of Acute Cell Death Using a Near-Infrared Fluorescent Zinc-Dipicolylamine Probe*. Mol. Pharmaceutics, 2011, 8, 583-590.
- Kersigo J, D'Angelo A, Gray BD, Soukup GA, Fritsch B. *The role of sensory organs and the forebrain for the development of the craniofacial shape as revealed by Foxg1-cre-mediated microRNA loss*. Genesis. 2011 Apr;49(4):326-41.
- Thakur, M.; Zhang, K.; Paudyal, B.; Devakumar, D.; Covarrubias, M.; Cheng, C.; Gray, B.; Wickstrom, E.; Pak, KY. *Targeting Apoptosis for Optical Imaging of Infection*. Molecular Imaging and Biology, 2012, 14, 163-171.
- Wyffels, L.; Gray, B.; Barber, C.; Woolfenden, J.; Pak, KY. Liu, Z.; *Synthesis and preliminary evaluation of radiolabeled bis(zinc(II)-Dipicolylamine) coordination complexes as cell death imaging agents*. Bioorganic and Medicinal Chemistry, 2011, 19, 3425-3433.
- Liu X, Cheng D, Gray BD, Wang Y, Akalin A, Rusckowski M, Pak KY, Hnatowich DJ. *Radiolabeled Zn-DPA as a potential infection imaging agent*. Nucl Med Biol. 2012 Feb 7 (epub ahead of print)
- Wyffels, L.; Gray, B.; Barber, C.; Pak, KY.; Forbes, S.; Mattis, J.; Woolfenden, J.; Liu, Z.; *Detection of myocardial ischemia-reperfusion injury using a fluorescent near-infrared zinc(II)-dipicolylamine probe and ^{99m}Tc-glucarate*. Molecular Imaging and Biology. 2011, Sept 30. (epub ahead of print)
- Li J., Gray B., Pak KY., Ng CK. J *Optimization of labeling dipicolylamine derivative, N,N'-(5-(4-aminobutoxy)-1,3-phenylene)bis(methylene)bis(1-(pyridin-2-yl)-N-(pyridin-2-ylmethyl)methanamine), with three ¹⁸F-prosthetic groups as potential imaging agents for metastatic infectious disease*. Labelled Compounds and Radiopharmaceuticals 2012; in press.
- White A, Gray BD, Pak KY, Smith BD. *Deep-red fluorescent imaging probe for bacteria*. Bioorganic and Medicinal Chemistry Letters. 2012; in press
- Chu C. Huang X, Chen CT, Zhao Y, Luo JJ, Gray BD, Pak KY, Dun NJ. *In Vivo imaging of brain infarct with a novel fluorescent probe PSVue® 794 in a rat middle cerebral artery occlusion-reperfusion model*. Molecular Imaging. 2012; in press