

Publications

Recent Publications

Collier, T. L.; Normandin, M. D.; Stephenson, N. A.; Livni, E.; Liang, S. H.; Wooten, D. W.; Esfahani, S.A.; Stabin, M.G.; Mahmood, U.; Chen, J.; Wang, W.; Maresca, K.; Waterhouse, R.N.; El Fakhri, G.; Richardson, P. F.; and Vasdev, N. "Synthesis and Preliminary PET imaging of ¹¹C- and ¹⁸F-isotopologues of the ROS1/ALK inhibitor lorlatinib" *Nature Communications* 2017, 8, 15761
doi:10.1038/ncomms15761

Yuan, G.; Wang, F.; Stephenson, N. A.; Wang, L.; Rotstein, B. H.; Vasdev, N.; Tang, P. and Liang, S.H. "Metal-free ¹⁸F labeling of aryl-CF₂H via nucleophilic radiofluorination and oxidative C-H activation." *Chem. Commun.* 2017, 53, 126-129

Stephenson, N. A.; Holland, J. P.; Kassenbrock, A.; Yokell, D. L.; Livini, E.; Liang, S. H. and Vasdev, N. "Iodonium Ylide Mediated Radiofluorination of ¹⁸[F]FPEB and Validation for Human Use." *J. Nucl. Med.* 2015, 56, 489-492

Liang, S. L.; Holland, J. P.; Stephenson, N. A.; Kassenbrock, A.; Rotstein, B. H.; Daignault, C. P.; Lewis, R.; Collier, T. L.; Hooker, J. M., and Vasdev, N. "Temporal PET neuroimaging studies of [¹⁸F]CABS13 in a double transgenic mouse model of Alzheimer's disease and non-human primates" *ACS Chem. Neurosci.* 2015, 6, 535-

Stephenson, N. A.; Gellman, S. H.; and Stahl, S. S. "Ethylene glycol and phosphoric acid promoted ammonolysis of anilides." *RSC Adv.* 2014, 4, 46840-46843

Rothstein, B. H.†; Stephenson, N. A. †; Vasdev, N.; Liang, S. H. "Spiro hypervalent iodine(III)-mediated radiofluorination of non-activated and hindered aromatics." *Nature Communications*, 2014, 5, 4365 (†Co-first author)

PATENTS

Steven H. Liang, Benjamin H. Rotsein, **Nickeisha A. Stephenson**, and Neil Vasdev. "Iodine(III)-Mediated Radiofluorination" U.S. Patent 9,434,699 B2, issued September 6th 2016. Massachusetts General Hospital. Licensed by Ground Fluor Pharmaceuticals. Featured in *Chemical & Engineering News Magazine's PatentPicks*, October 26th 2015, vol.93 (42) p 27