

Publications Dr. Matthew Tredwell:

- 24:** ¹⁸F-Labeling of Arenes and Heteroarenes for Applications in Positron Emission Tomography. S. Preshlock, M. Tredwell, V. Gouverneur, *Chem. Rev.* **2015**, Submitted
- 23:** Oxidative Fluorination of N-Arylsulfonamides. F. Buckingham, S. Calderwood, B. Checa, T. Keller, M. Tredwell, T. L. Collier, I. M. Newington, R. Bhalla, M. Glaser, V. Gouverneur, *J. Fluorine Chem.* **2015**, *180*, 33-39
- 22:** ¹⁸F-Labeling of Aryl-SCF₃, -OCF₃, and -OCHF₂ with [¹⁸F]Fluoride. T. Khotavivattana, S. Verhoog, M. Tredwell, L. Pfeifer, S. Calderwood, K. Wheelhouse, T. L. Collier, V. Gouverneur, *Angew. Chem. Int. Ed.* **2015**, *34*, 9991-9995
- 21:** A Dual Radiolabelling Approach for Tracking Metal Complexes: Investigating the Speciation of Copper Bis(thiosemicarbonates) in Vitro and in Vivo. R. Hueting, V. Kersemans, M. Tredwell, B. Cornelissen, M. Christlieb, A. D. Gee, J. Passchier, S. C. Smart, V. Gouverneur, R. J. Muschel, J. R. Dilworth, *Metallomics.* **2015**, *7*, 795-804
- 20:** A Diversity Oriented Approach to CF₃CHF-, CF₃CFBr-, CF₃CF₂-, (CF₃)₂CH- and CF₃(SCF₃)CH-Substituted Arenes from 1-(Diazo-2,2,2-trifluoroethyl)arenes. E. Emer, J. Twilton, M. Tredwell, S. Calderwood, T. L. Collier, B. Liégault, M. Taillefer, V. Gouverneur, *Org. Lett.* **2014**, *16*, 6004-6007
- 19:** Anti-CD20 Inhibits T Cell-Mediated Pathology and Microgliosis in the Rat Brain. D. C. Anthony, A. M. Dickens, N. Seneca, Y. Couch, S. Campbell, B. Checa, V. Kersemans, E. A. Warren, M. Tredwell, N. R. Sibson, V. Gouverneur, D. Leppert, *Ana. Clin. Transl. Neurol.* **2014**, *1*, 659-669.
- 18:** A General Copper Mediated Nucleophilic ¹⁸F-Fluorination of Arenes. M. Tredwell, S. M. Preshlock, N. J. Taylor, S. Gruber, M. Huiban, J. Passchier, J. Mercier, C. Genicot, V. Gouverneur, *Angew. Chem. Int. Ed.* **2014**, *53*, 7751-7755. Highlighted by the editors as a "Hot Paper"
- 17:** Glial Activation in the Early Stages of Brain Metastasis: TSPO as a Diagnostic Biomarker. E. R. O'Brien, V. Kersemans, M. Tredwell, B. Checa, S. Serres, M. Sarmiento Soto, V. Gouverneur, D. Leppert, D. C. Anthony, N. R. Sibson, *J. Nucl. Med.* **2014**, *55*, 275-280.
- 16:** A Comparison of the Behaviour of ⁶⁴Cu-acetate and ⁶⁴Cu-ATSM in vitro and in vivo. R. Hueting, V. Kersemans, B. Cornelissen, M. Tredwell, K. Hussien, M. Christlieb, A. D. Gee, J. Passchier, S. C. Smart, J. R. Dilworth, V. Gouverneur, R. J. Muschel, *J. Nucl. Med.* **2014**, *55*, 128-134.
- 15:** A Broadly Applicable [¹⁸F]Trifluoromethylation of Aryl and Heteroaryl Iodides for PET Imaging. M. Huiban, M. Tredwell, S. Mizuta, Z. Wan, X. Zhang, T. L. Collier, V. Gouverneur, J. Passchier, *Nature Chem.* **2013**, *5*, 941-944
- 14:** Catalytic Decarboxylative Fluorination for the Synthesis of Tri- and Difluoromethyl Arenes. S. Mizuta, I. Stenhagen, M. O'Duill, J. Wolstenhulme, A. Kirjavainen, S. Forsback, M. Tredwell, G. Sandford, P. Moore, M. Huiban, S. Luthra, J. Passchier, O. Solin, V. Gouverneur, *Org. Lett.* **2013**, *15*, 2648-2651
- 13:** Regio- and Stereoretentive Synthesis of Branched, Linear (E)- and (Z)-Allyl Fluorides from Allyl Carbonates under Ir-catalysis. E. Benedetto, M. Tredwell, C. Hollingworth, T. Khotavivattana, J. M. Brown, V. Gouverneur, *Chem. Sci.* **2013**, *4*, 89-96
- 12:** [¹⁸F]Labeling of Arenes. M. Tredwell, V. Gouverneur, *Angew. Chem. Int. Ed.* **2012**, *51*, 11426-11437
- 11:** Metal Free Oxidative Fluorination of Phenols with [¹⁸F]Fluoride. Z. Gao, Y-H. Lim, M. Tredwell, L. Li, S. Verhoog, M. Hopkinson, W. Kaluza, T. L. Collier, J. Passchier, M. Huiban, V. Gouverneur, *Angew. Chem. Int. Ed.* **2012**, *51*, 6733-6737
- 10:** Platinum Catalysed Substitution of Allyl Fluorides. E. Benedetto, M. Keita, M. Tredwell, C. Hollingworth, J. M. Brown, V. Gouverneur, *Organometallics*, **2012**, *31*, 1408-1416
- 9:** Hypoxia Imaging Using PET and SPECT: The Effects of Anesthetic and Carrier Gas on [⁶⁴Cu]-ATSM, [^{99m}Tc]-HL91 and [¹⁸F]-FMISO Tumour Hypoxia Accumulation. V. Kersemans, B. Cornelissen, R. Hueting, M. Tredwell, K. Hussien, P. D. Allen, N. Falzone, S. A. Hill, J. R. Dilworth, V. Gouverneur, R. J. Muschel, S. C. Smart, *PLoS ONE* **6**(11): e25911
- 8:** Palladium-Catalysed Allylic Fluorination. C. Hollingworth, A. Hazari, M. N. Hopkinson, M. Tredwell, E. Benedetto, M. Huiban, A. D. Gee, J. M. Brown, V. Gouverneur, *Angew. Chem. Int. Ed.* **2011**, *50*, 2613-2617. Highlighted by the editors as a "Hot Paper"
- 7:** Palladium(II)-Catalyzed C-H Bond Arylation of Electron-Deficient Arenes at Room Temperature. M. Tredwell, M. Gulias, N. Gaunt Bremeyer, C. C. C. Johnsson, B. S. L. Collins, M. J. Gaunt, *Angew. Chem. Int. Ed.* **2011**, *50*, 1076-1079. Highlighted by the editors as a "Hot Paper"
- 6:** Fluorine-Directed Diastereoselective Iodocyclizations. M. Tredwell, J. A. R. Luft, M. Schuler, K. Tenza, K. N. Houk, V. Gouverneur, *Angew. Chem. Int. Ed.* **2007**, *47*, 357-360. Highlighted by the editors as a "Hot Paper"
- 5:** Single and Double Stereoselective Fluorination of (E)-Allylsilanes. M. Sawicki, A Kwok, M. Tredwell, V. Gouverneur, *Beilstein J Org Chem*, **2007**, *3*:34

4: *A Convergent Approach for the Synthesis of Fluorinated Sphingosine Analogues.* H. Teare, F. Huguet, M. Tredwell, S. Thibaudeau, S. Luthra, V. Gouverneur, *Invited paper, Commemorative Issue in Honor of Prof. Alain Krief on the occasion of his 65th Anniversary, ARKIVOC*, **2007**, 10, 232-244

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2: *Electrophilic Fluorination of Organosilanes.* M. Tredwell, V. Gouverneur, *Org. Biomol. Chem.* **2006**, 4, 26-32

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