

### Appointments

- 2006 - Research Scientist Chemistry University of Memphis
- 2004 - Vietnamese Tester Foreign Languages and Literatures University of Memphis
- 2005 - 2006 Post-doc Chemistry University of Memphis

### Education

- 2005 Ph.D. Chemistry University of Memphis
- 2003 M. S. Chemistry University of Memphis
- 2001 B.S. Summa Cum Laude Physics University of Memphis
- 2000 B.S. Summa Cum Laude Chemistry University of Memphis
- 1990 B.S. Animal Husbandry Cantho University

### Research Interests

- Protein structure, function and modeling
- Rational ligand design and activity screening
- Mass and NMR spectrometry

### Other Activities

- MS and NMR spectrometer management

### Teaching Experiences

- CHEM1021 Intro Chemistry II Lab University of Memphis
- CHEM1111 General Chemistry I Lab University of Memphis
- CHEM1121 General Chemistry II Lab University of Memphis
- MCAT Physics University of Tennessee, Heath Science Center

### Publications

1. Fells JI, Lee SC, Norman DD, Tsukahara R, Kirby JR, Nelson S, Seibel W, Papoian R, Patil R, Miller DD, Parrill AL, Pham TC, Baker DL, Bittman R, Tigyi G. Targeting the hydrophobic pocket of autotaxin with virtual screening of inhibitors identifies a common aromatic sulfonamide structural motif. *FEBS Journal* **2014**, 281: 1017–1028

2. Young JK, Clayton BT, Kikonyogo A, Pham TC, Parrill AL. Structural Characterization of an LPA1 Second Extracellular Loop Mimetic with a Self-Assembling Coiled-Coil Folding Constraint. *Int J Mol Sci.* **2013**, 14(2):2788-807
3. Baker DL, Pham TC, Sparks MA. Structure and catalytic function of sphingosine kinases: Analysis by site-directed mutagenesis and enzyme kinetics. *Biochim Biophys Acta.* **2013**, 1831(1):139-46
4. Singh WM, Baine T, Kudo S, Tian S, Ma XA, Zhou H, DeYonker NJ, Pham TC, Bollinger JC, Baker DL, Yan B, Webster CE, Zhao X. 2. Electrocatalytic and photocatalytic hydrogen production in aqueous solution by a molecular cobalt complex. *Angew Chem Int Ed Engl.*, **2012**, 51(24):5941-4
5. Parrill AL, Wanjala IW, Pham TC, Baker DL. "Computational Identification and Experimental Characterization of Substrate Binding Determinants of Nucleotide Pyrophosphatase/Phosphodiesterase 7" *BMC Biochem.* **2011**, 12(1): 65
6. Gupte, Renuka; Patil, Renukadevi; Liu, Jianxiong; Wang, Yaohong; Lee, Sue C.; Fujiwara, Yuko; Fells, James; Bolen, Alyssa L.; Emmons-Thompson, Karin; Yates, C. Ryan; Siddam, Anjaih; Panupinthu, Nattapon; Pham, Truc-Chi T.; Baker, Daniel L.; Parrill, Abby L.; Mills, Gordon B.; Tigyi, Gabor; Miller, Duane D., "Benzyl and Naphthalene Methylphosphonic Acid Inhibitors of Autotaxin with Anti-invasive and Anti-metastatic Activity" *ChemMedChem.* **2011**, 6(5): 922-935.
7. Gupte R, Siddam A, Lu Y, Li W, Fujiwara Y, Panupinthu N, Pham TC, Baker DL, Parrill AL, Gotoh M, Murakami-Murofushi K, Kobayashi S, Mills GB, Tigyi G, Miller DD. "Synthesis and pharmacological evaluation of the stereoisomers of 3-carba cyclic-phosphatidic acid" *Bioorg Med Chem Lett.* **2010**, 20(24):7525-8
8. Valentine WJ, Kiss GN, Liu J, E S, Gotoh M, Murakami-Murofushi K, Pham TC, Baker DL, Parrill AL, Lu X, Sun C, Bittman R, Pyne NJ, Tigyi G. "(S)-FTY720-vinylphosphonate, an analogue of the immunosuppressive agent FTY720, is a pan-antagonist of sphingosine 1-phosphate GPCR signaling and inhibits autotaxin activity." *Cell Signal.* **2010**, 22(10):1543-53.
9. North EJ, Howard AL, Wanjala IW, Pham TC, Baker DL, Parrill AL. "Pharmacophore development and application toward the identification of novel, small-molecule autotaxin inhibitors." *J Med Chem.* **2010**, 53(8):3095-105.
10. Hoeglund AB, Howard AL, Wanjala IW, Pham TC, Parrill AL, Baker DL. "Characterization of non-lipid autotaxin inhibitors." *Bioorg Med Chem.* **2010**, 18(2):769-76.
11. Pham TC, Fells JI, Sr., Osborne DA, North EJ, Naor MM, Parrill AL. "Molecular Recognition in the Sphingosine 1-Phosphate Receptor Family." *J. Mol. Graphics Modell.* **2008**, 26(8):1189-201
12. Parrill, A.L.; Echols, U.\*; Nguyen, T.\*; Pham, T.C.T.; Hoeglund, A.; Baker, D. L. "Virtual Screening Approaches for the Identification of Non-Lipid Autotaxin Inhibitors", *Bioorg. Med. Chem.*, **2008**, 16(4), 1784-1795.
13. Pham TC, Kriwacki RW, Parrill AL. "Peptide Design and Structural Characterization of a GPCR Loop Mimetic." *Biopolymers.* **2007**, 86(4):298-310 (highlighted in front page).

14. Inagaki Y, Pham TT, Fujiwara Y, Kohno T, Osborne DA, Igarashi Y, Tigyi G, Parrill AL. "Sphingosine 1-phosphate analogue recognition and selectivity at S1P4 within the endothelial differentiation gene family of receptors." *Biochem J.* **2005**, 389(Pt 1):187-95
15. Holdsworth G, Osborne DA, Pham TT, Fells JI\*\*, Hutchinson G, Milligan G, Parrill AL. "A single amino acid determines preference between phospholipids and reveals length restriction for activation of the S1P4 receptor." *BMC Biochem.* **2004**; 5:12.
  - Authors in bold contributed equally