Ella Suet-Hing Clement

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EDUCATION

2005 Ph.D. Chemistry, Virginia Polytechnic Institute and State University

1999 M.S. Chemistry, Hong Kong University of Science and Technology

1997 B.S. Chemistry, HKUST.

RESEARCH AND TEACHING EXPERIENCE

2010-present Adjunct Chemistry Instructor, Western Carolina University

- Developed materials for freshman chemistry classes
- Taught both face-to-face and online freshman chemistry classes
- Prepared video lectures for online students
- Created content for delivering instructional materials and facilitating student learning using Blackboard Learning Management System.

2000-2005 Graduate assistant, Virginia Tech.

- Designed and synthesized a directed library of non-zwitterionic $GABA_A$ receptor ($GABA_AR$) analogs.
- Assayed the activities of $GABA_AR$ agonists and antagonists with radioisotopes such as $^{36}Cl^-$ and ^3H.
- Investigated and implemented the enantiospecific syntheses of benzodiazepine derivatives.
- Characterized the performance of these benzodiazepine derivatives with computational studies.
- Determined the enantiopurity of these benzodiazepine derivatives with HPLD(s.)]TJETQq0.00000912 0 612 792 reW*nBT/F1 12 Tf8(-)0 0 612 36.17 Tm0 g0 G -0.0

Classes Taught

4. Clement, Ella C.; Carlier, Paul R. A simple route to tetrahydro-1,4-benzodiazepin-3-ones bearing diverse N1, N4, and C10 functionalization. *Tetrahedron Letters* **2005**, 46(21), 3633-3635.

5. Carlier, P. R.; Chow, E. S.-H.; Barlow, R. L.; Bloomquist, J. R. Discovery of non-Zwitterionic $GABA_A$ receptor full agonists and a superagonist. *Bioorg. Med. Chem. Letters* **2002**, *12*, 1985-1988.

6. Carlier, P.R.; Chow, E.S.-H.; Han, Y.; Liu, J.; El Yazal, J.; Pang, Y.-P. Heterodimeric Tacrine-Based Acetylcholinesterase Inhibitors: Investigating Ligand-Peripheral Site Interactions. *J. Med. Chem.* **1999**, *42*, 4225-4231.

7. Han, Y. F.; Li, C. P.-L.; Chow, E.; Wang, H.; Pang, Y.-P.; Carlier, P. R. Dual-site binding of bivalent 4-aminopyridine- and 4-aminoquinoline-based AChE inhibitors: contribution of the hydrophobic alkylene tether to monomer and dimer affinities. *Bioorg. Med. Chem.* **1999**, *7*, 2569-2575.

8. Carlier, P. R.; Han, Y.; Chow, E. S.-H.; Li, C. P.-L.; Wang, H.; Lieu, T. X.; Wong, H. S.; Pang, Y.-P.. Evaluation of short-tether bis-THA acetylcholinesterase inhibitors. A further test of the dual binding site hypothesis. *Bioorg. Med. Chem.* **1999**, *7*, 351-357.