

Chemistry

Contract	Term	Course	Contract Title	Description
379099	Spring 2018	CHEM 3112	A Literature Review of the Inhibitory Effects of Organometallics on Protein Kinases	<p>This project will consist of a literature review that will discuss current research on organometallics and their uses as protein kinase inhibitors; details such as their overall reactivity and reaction mechanism of organometallics when exposed to kinases will be discussed. Organometallics, in certain reactions, can serve as inhibitors of phosphorylation; yet, different metal ligands produce different effects in terms of efficacy in their use of inhibition. One of the main reasons for this occurrence is due to the bonding of the atoms and its crystallized structure. Further, in conjunction with Dr. Taylor's research lab, organometallics will be analyzed in terms of their usage as possible anticancer drugs. Through the process of phosphorylation, protein kinases have also shown to be a major contributor to the formation of cancer within the human body. As such, this literature review will also tackle implications in current research towards organometallics as possible anti-cancer drugs through inhibition of the kinases.</p>