We are Pleased to Announce A Seminar
Presented by

Brian J. Blagg
University of Notre Dame

Natural Products as a Starting Point for Modern Drug Discovery

Friday, March 6, 2020
4:00 pm
NWC 1313

Hsp90 is a molecular chaperone that is responsible for the conformational maturation of ~300 peptide substrates, most of which are involved in signaling cascades that are hijacked during malignant transformation. Consequently, Hsp90 represents a promising therapeutic target for the development of anti-cancer agents. Hsp90 is also the master regulator of the pro-survival heat shock response, which provides cytoprotection for cells exposed to cellular stress. Therefore, Hsp90 can be a therapeutic target for the treatment of cancer as well as neurodegenerative diseases. Based on the natural products geldanamycin, radicicol, novobiocin and cruentaren A, small molecules have been discovered that can segregate these opposing properties and provide a platform for modern drug discovery efforts aimed at treating these diseases. The development of anti-cancer agents, neuroprotective agents, and anti-glaucoma treatments will be discussed and will highlight the polarizing role played by Hsp90 in various disease states.

Refreshments will be served at 3: 45 pm
REMINDER ~ WEAR YOUR ID