

BIOL 8021

Presentation Skills and Research Seminars in Cell and Molecular Biology

Toxicological Analysis of investigational anti-hypertensive small molecule

Speaker: Shaik Abdullah Nawabjan

Supervisor: Prof. Billy KC Chow

Date: 15th Jan 2021

Time: 10:30 AM (following the first speaker)

Venue: Zoom



Hypertension is the leading cause of mortality and morbidity around the world, and about 30 percent of hypertensive patients are nonresponsive by the current available drug regime, condition known as resistant hypertension. KSD179019 is an investigational antihypertensive small molecule recently developed in our lab. KSD179019 is a Positive Allosteric Modulator of secretin receptor (SCTR) have shown potent anti-hypertensive activity in SHR rat model. Safety of a drug molecule is utmost importance; therefore, this research project is designed to evaluate safety of KSD179019 via *in vitro* and *in vivo* toxicological analysis. A battery of *in vitro* and *in vivo* toxicity studies was designed to evaluate cell viability, cell mutagenicity and systemic toxicity. *In vivo* acute, sub chronic and chronic toxicity studies were designed according to OECD test guideline. The experimental data from these *in vitro* and *in vivo* toxicity studies will be very important and deciding for KSD 179019 as an antihypertensive drug development for clinical use.

--- All are welcome! ---