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Dear Dean of Graduate and Postdoctoral Studies,

I am writing to you regarding the resubmission of my thesis titled "*Facile exchange of arsenic between adducts and implications to drug discovery*". After reviewing the comments made in the examiner's report, have made extensive changes to my thesis and have addressed his concerns. In particular I have improved the overall presentation of the thesis. I have detailed other specific improvements I have made in the following section.

Chapter 2 has been corrected to have a cohesive format with the rest of the document. Care has been made to fix the presentation style, including spelling, grammar, figure numbering, and chemical naming. Additional supporting materials have been added and streamlined into the chapter. In particular, the mistakes in the Arrhenius plot has been corrected (the axis of the graph is in the correct  $\ln K$  vs  $1/T$  axis).

Chapter 3 has been rewritten with the aim improving the focus and cohesiveness of the chapter. This chapter now covers two major topics, the synthesis of dimethyl arsenic derivatives and the preliminary experiments with monomethyl arsenic derivatives. A greater emphasis has been placed on the analysis of experimental results and section conclusion have been added for each subsection. Experiments that did not work are now clearly marked and NMRs of mixtures have their components identified and analyzed. Reasons for why experiments didn't work have been added along with improvement methods.

I believe this thesis is complete and ready to be resubmitted.

Yours sincerely,



Yuxuan Gu