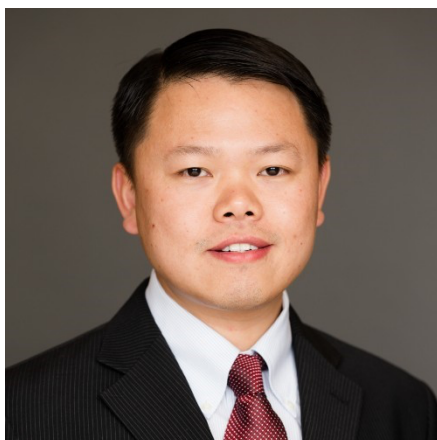




Department of Chemistry Seminar Series Spring 2023

Monday April 3, 2023, 3:30 PM – HPA1-O119 (Health Sciences)

Recombinant protein vaccines –regulated manufacturing from process development to implementation and release



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Biopharmaceutical processing in particular vaccines has been greatly accelerated from design to production, in the past 3 years since the COVID-19 pandemic. This seminar would provide an overview of technical routes for vaccines development, with COVID-19 vaccines as examples. Among the routes, manufacturing of recombinant proteins for vaccines would be introduced and current industrial production process will be presented, from cell line development to process development in upstream development, downstream development, drug substance and drug product, formulations, quality control and product release, and regulatory considerations. Challenges and approaches in major process steps will be shared and discussed. The seminar would also give an outlook in recombinant protein vaccine developments and manufacturing.