



Bridge to Doctorate Meeting Minutes

April 24th, 2019

Facilitator: Kevin Rivera

Minute Taker: Brandon Williams

Duration: 1:00 pm – 2:00 pm.

Presentation

Enhancing the Efficiency of Catalytic Processes by Encapsulation of Homogeneous Catalyst

1. Formation of polymer nanocapsules
 - a. Self-assembly
 - b. Catalyst encapsulation
2. Motivations
 - a. Homogeneous catalysts are difficult to recover and have low selectivity
 - i. Are used in batch processes
 - ii. Low though put compare to continuous flow reactions
 - b. Heterogenous catalysts are easier to recover and reusable
 - i. Can be used in continuous flow reaction
3. Goals
 - a. Increase selectivity of homogenous catalyst
 - b. Improve stability and recoverability of homogenous catalyst
4. Catalyst synthesis
 - a. Currently working to synthesize a manganese coordinated catalyst
 - b. Difficulty in reducing the batch size due to expense of ligands
 - c. NMR and XRD characterization of products reveals that synthesis has not been successful
- 5.

Questions/Notes

Proposal Writing tips and advice

This talk covered briefly the progression from choosing where to submit your proposal through the writing and editing process.

1. Search for and choose the most appropriate funding sources to apply to
2. Read the guidelines carefully along with programs mission statements
3. Set self-imposed deadlines
 - a. Give a weekly writing goal and longer terms goals
4. Revision process



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- a. Self-revision
 - i. Revisit the funding source guidelines and confirm that you address all requirements listed there.
 - b. Create a revision “committee”
 - i. Advisor
 - ii. Peers (fellow scientist that are knowledgeable of your field of study)
 - iii. Peer (colleagues whose background differ from yours)
5. Plan ahead
- a. Make time at least 1 week before the submission date to do final revisions of your packet

Announcements

- Next BD meeting scheduled for May 1st at 8:00 am.

Attendees:

Kevin Rivera
Pierre Fils
Jessica Maita
Brandon Williams
Roman Mays
Godwin Dzidotor
Steven J. Toro
Luis Antonio
Aida Ghiaei
Randi Mendes