



CMCC Mechanochemistry Discussions

Online Seminar Series

Mechanochemical Synthesis and Scale up of Pharmaceutically Relevant Cocrystals

**Livestreaming at
10:00 AM (CT)**

THURS., August 18, 2022

on the CMCC YouTube Channel:

<https://www.youtube.com/channel/UC7eCYPKbGTKpgO7W2bNABxg>



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<https://scholar.google.com/citations?user=AKyEj9gAAAAJ&hl=en>

ABSTRACT:

Poorly soluble crystalline small molecules pose a challenge during drug development as they may have limited oral bioavailability. Cocrystals have emerged as one of the strategies to overcome low bioavailability. Traditionally cocrystals have been prepared using solution or slurry crystallization. However, there are several limitations to these traditional techniques. In this talk, I will present the application of mechanochemistry in the synthesis and scale up of Pharmaceutically relevant cocrystals. In particular, I will highlight the utility of Resonant acoustic mixing (RAM) in high throughput screening and scale up of cocrystals.

References:

- Int. J. Pharm.*, 521 (2017) 337–345.
- Chem. Sci.*, 11, (2020) 7578-7584.
- J. Pharm. Sci.*, 99, 4 (2010) 1693-1696.



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