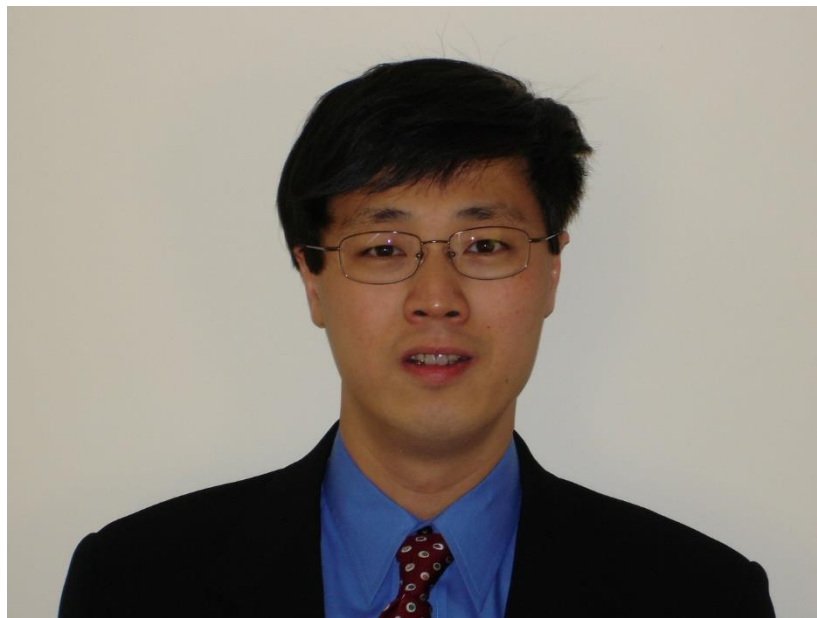


Presents:



**Dr. Jeff Song**

**Vice President, Chemical Development US  
Boehringer Ingelheim Pharmaceuticals, Inc.**

## Development of Scalable and Cost-Effective API Synthesis through Chemical Innovation

**Abstract:** Chemical innovation is the key for the development of scalable and cost-effective API synthesis. Evolution of the synthetic route for a structurally complex drug candidate will be presented, including various strategies to access the central all-carbon quaternary stereogenic center. The ultimate pilot plant route was based on a sequence involving a non-cryogenic stereospecific boronate rearrangement followed by a robust formylation with an *in-situ* generated dichloromethane anion.

**3:30pm | Tuesday, August 13, 2019 | 3440 Mol. Sci.**