

INTRODUCTION TO DRUG DISCOVERY

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SEMINAR OBJECTIVES

1. Students will become familiar with the small molecule drug discovery process from target identification to development candidate declaration as conducted in a collaborative-based matrixed corporate setting.
2. Through case study presentation, students will be introduced to a complete drug discovery story, from initial discovery on the lab bench through FDA approval.
3. During in-class practical exercises, students will learn to use open source cheminformatics tools to build a “big data” analysis tool kit and use this tool kit to conduct a virtual high-throughput screen; no prior programming knowledge required. These tools can then serve as a starting point to augment the students’ own research.

COURSE REQUIREMENTS

1. Attendance at all 4 two-hour meetings is strongly suggested
2. Students will be requested to read 3-4 publications in preparation for the second half of the course.
3. In order to participate in the cheminformatics practical sessions, students will be required to download and install tools and a data set provided by the instructor on a laptop that can be brought to class.

COURSE DATES/TIMES/LOCATION

Thursdays, March 7, 14, 21 and 28, 6 – 8 pm, Sackler 216A

REGISTRATION

Available at <https://www.eventbrite.com/e/introduction-to-drug-discovery-short-course-tickets-56206002667>.