## First-Week Tasks

### Lab bench Check-in

(name tags at your assigned lab bench in 491 Kolthoff) (no need to sign-up; just come to one when you are available)

Tuesday, September 3, 1:00-2:00 pm (Katharine)

Wednesday, September 4, 9:30–10:30 am (Katharine)

# Round 1 (Week 1) Instrument/Technique Tutorials (~30 min each)

1. liquid/liquid extraction pouring of solvents syringe handling, rotary evaporators

2. FT-infrared spectroscopy (FTIR) sample preparation and data collection laboratory safety features
Reaxys/SciFinder connect on laptops

#### Rong Tang

Tu, Sept. 3<sup>rd</sup>, 3:00 Tu, Sept. 3<sup>rd</sup>, 4:00 W, Sept. 4<sup>th</sup>, 12:30 Jingyang Shi

W, Sept. 4<sup>th</sup>, 4:00 W, Sept. 4<sup>th</sup>, 5:00 Th, Sept. 5<sup>th</sup>, 1:00

3. Workstations: NMR data retrieval (and NMR sample preparation)

4. gas chromatography-mass spectrometry (GC/MS): sample preparation and queue submission

#### Katharine Toll

Tu, Sept. 3<sup>rd</sup>, 2:30 W, Sept. 4<sup>th</sup>, 3:00 Th, Sept. 5<sup>th</sup>, 2:00

#### Jack Orr

Th, Sept. 5<sup>th</sup>, 11:00 Th, Sept. 5<sup>th</sup>, 12:30 F, Sept. 6<sup>th</sup>, 5:00

5. hazardous waste handling; reagent weighing/dispensing (solids vs. liquids), closed reagent bottles, glass vs. paper waste

# 6. thin-layer chromatography (tlc) flash chromatography tlc staining/visualization

#### Rong Tang

W, Sept. 4<sup>th</sup>, 4:30 Th, Sept. 5<sup>th</sup>, 3:00 Th Sept. 5<sup>th</sup>, 4:00

#### Jingyang Shi

W, Sept. 4<sup>th</sup>, 1:30 Th, Sept. 5<sup>th</sup>, 5:00 F, Sept. 6<sup>th</sup>, 6:00

# Round 2 (Week 3) Instrument/Technique Tutorials

7. medium pressure liquid chromatography (MPLC)

8. ozonolysis apparatus and vacuum distillation equipment

9. molecular modeling software (MacroModel via Maestro)

(times to be announced, starting on ca. Friday, September 13, 2024)