

First-Week Tasks

Lab bench **Check-in**

(name tags at your assigned lab bench in 491 Kolthoff)

Tuesday, September 6, noon-1 (Alex); 3:00-4 pm (Paul).

Wednesday, September 7, 2:00-3 pm (Katharine).

Round 1 (Week 1) Instrument/Technique Tutorials

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

Katharine Toll

Tu, Sept. 6, 4:00

Tu, Sept. 6, 5:00

W, Sept. 7, 12:30

2. FT-infrared spectroscopy (FTIR)
sample preparation and data collection
laboratory safety features

Paul Kevorkian

W, Sept. 7, 4:00

W, Sept. 7, 5:00

Th, Sept. 8, 1:00

3. PC workstations: NMR data retrieval
(and NMR sample preparation)
Reaxys/SciFinder connect

Alex Guzman

Tu, Sept. 6, 2:00

W, Sept. 7, 3:00

Th, Sept. 8, 1:00

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

Alex Guzman

Th, Sept. 8, 11:00

Th, Sept. 8, 12:30

F, Sept. 9, 4:00

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

Katharine Toll

W, Sept. 7, 4:30

Th, Sept. 8, 2:00

Th Sept. 8, 3:00

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

Paul Kevorkian

W, Sept. 7, 1:00

W, Sept. 7, 4:00

Th, Sept. 8, 2:00

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 17, 2021)