Organic Chemistry research involves the synthesis of organic molecules and the study of their reaction paths, interactions, and applications. Advanced interests include diverse topics such as the development of new synthetic methods for the assembly of complex organic molecules and polymeric materials, organometallic catalysis, organocatalysis, the synthesis of natural and non-natural products with unique biological and physical properties, structure and mechanistic analysis, natural product biosynthesis, theoretical chemistry and molecular modeling, diversity-oriented synthesis, and carbohydrate synthesis. Complete Organic Chemistry Textmaps can be found in the Textmap section.

- Acid Halides

- Alkanes

- Alkenes
Alkynes

- Alcohols

- Aldehydes and Ketones

- Alkyl Halides
Amides

Amines

Anhydrides

Arenes
Aryl Halides

Azides

Carbohydrates

Carboxylic Acids
Chirality

Conjugation

Esters

Ethers
Fundamentals

• Hydrocarbons

• Lipids

• Nitriles
Organo-phosphorus Compounds

- Phenols

- Phenylamine and Diazonium Compounds

- Polymers
Reactions

- Thiols and Sulfides

- Spectroscopy