
Organic Synthesis Group (Dr. Rafael Navrátil)



Dr. Rafael Navrátil group focuses on **designing and developing innovative chemical reactions in organic chemistry**, for example **selective functional group migrations** which could simplify and accelerate the development of new pharmaceuticals.

The team focuses on **developing innovative synthetic methods using transition metal catalysis and electrochemistry**, with high potential for faster and more efficient drug discovery.

Rafael Navrátil earned his Ph.D. at **Charles University** in Professor Roithová laboratory, developing experimental methods based on **mass spectrometry** and **ion spectroscopy** to study ion photochemistry, reactive intermediates and reaction mechanisms. After his Ph.D., he conducted postdoctoral research at **Scripps Research, USA**, focusing on electrochemical functionalization of unactivated C(sp³)-H bonds.

In 2023, he received the **Junior Star grant** of the Czech Science Foundation and established his own research group at Charles University. He actively mentors students, fostering creativity, collaboration, and the independent development of young chemists.

Learn more: [Organic Synthesis Group](#)