

NEW SYNTHESIS METHODOLOGY FOR EXPEDITE DRUG SYNTHESIS

MSc Thesis Project in Organic Chemistry

Which compound will be next multi-billion blockbuster drug? This is indeed a difficult question to answer - and then again not... It is in fact very easy to answer: It will be a compound, which we can synthesize in a reasonable number of steps!

This master project focuses on the development of new synthetic methodology important to medicinal chemistry research. The MSc project can focus on one of the following objectives:

- New methodology for the synthesis of chemically complex molecules
- New methodology using bromoform as a one-carbon synthon
- Synthesis of new planar heterocycles

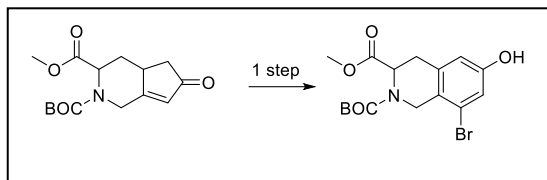
STUDENT SUPERVISION:

I hold bi-weekly project meetings with each student in the group. In addition, thereto I have an open-door policy after 13:00, where you are always welcome to drop by. As an MSc thesis student, you will also have a PhD student or Postdoc as your daily co-supervisor.

ABOUT THE BUNCH GROUP AT ILF:

In the BUNCH group we focus on discovering new methodology as well as design and synthesis of small molecules (tool compounds) for use in the CNS.

We have a strong focus on understanding organic chemistry at the mechanistic level. During the semester the group meets for “chemistry meetings”, where we discuss electron pushing problems, retrosyntheses and so on.



The MSc thesis project comprises:

- Literature search
- Optimization of reaction conditions
- Scope and limitations
- Thesis writing & oral defense

FACTS:

- ECTS: 45-60 points
- START: As agreed to

QUALIFICATIONS:

- Strong background and interest in organic chemistry

CONTACT:

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