



INTERNSHIP PROGRAM FOR INTERNATIONAL STUDENTS

INTERNSHIP SUBJECT FORM

Name of the Host Laboratory	Laboratory of Organic Synthesis (LSO)
Website of the Host Laboratory	http://lso.polytechnique.fr/
Research Group	Six Team https://yvansix7.wixsite.com/sixteam
Internship Supervisor	Dr Yvan Six
Internship Subject	A novel approach for the synthesis of quinolizidine derivatives
Student's level	<input checked="" type="checkbox"/> Advanced Undergraduate Students (3 rd or 4 th year) <input checked="" type="checkbox"/> Master's students (1 st or 2 nd year) <input checked="" type="checkbox"/> PhD students
Proposed Duration	<input checked="" type="checkbox"/> 3 months <input checked="" type="checkbox"/> 4 months <input checked="" type="checkbox"/> 5 months <input checked="" type="checkbox"/> 6 months
Prerequisites	High motivation. Strong background and good theoretical knowledge in Organic Chemistry. Good communication skills.
Internship description (max. 15 lines)	<p>Quinolizidines constitute an extremely important family of compounds. In particular, many natural products, including bioactive alkaloids, belong to this class of molecules.</p> <p>This internship project aims at investigating a new approach for the expedient synthesis of functionalised quinolizidine compounds, based on the chemistry of cyclopropanes. We are planning to evaluate the biological activities of the products obtained [collaboration with the Institut de Chimie des Substances Naturelles (ICSN) in Gif-sur-Yvette].</p>

The boxes marked with cross implies eligible