



INTERNSHIP PROGRAM FOR INTERNATIONAL STUDENTS

INTERNSHIP SUBJECT FORM

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| Name of the Host Laboratory | LSO (Laboratory of Organic Synthesis) |
| Website of the Host Laboratory | http://lso.polytechnique.fr/ |
| Research Group | Catalysis and Natural Products |
| Internship Supervisor | Sébastien Prévost |
| Internship Subject | Naphthalene functionalization <i>via</i> C-H activation |
| Student's level | <input 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 | Organic synthesis, organometallic catalysis, NMR |
| Internship description (max. 15 lines) | <p>Naphthalene is a very important moiety in chemistry as proven by its presence in many more or less complex natural products and bioactive compounds. For these reasons, the synthesis of functionalized naphthalenes is of great importance in the scientific community. The objective of the project will be to develop new reactions of C8-functionalization of 1-carbonylnaphthalene derivatives and to apply the methodologies for fast and green syntheses of natural products. The project will especially focus on C8-amination and C8-cyanation <i>via</i> C-H activation reactions.</p> |

The boxes marked with cross implies eligible