ORF sharing

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Year 4 (Chem Intensive)

Outline

Preparation

Research Experience

Conclusion

Preparation – Finding potential supervisors

1. Apply undergraduate summer research programs (e.g. SURF by Caltech/ HKU-ICL joint program)

2. Through your current host institution if you join an exchange program

3. Approach supervisors via emails

1.Apply undergraduate summer research programs

Summer Research Opportunities at Imperial College London—Summer 2023, London UK
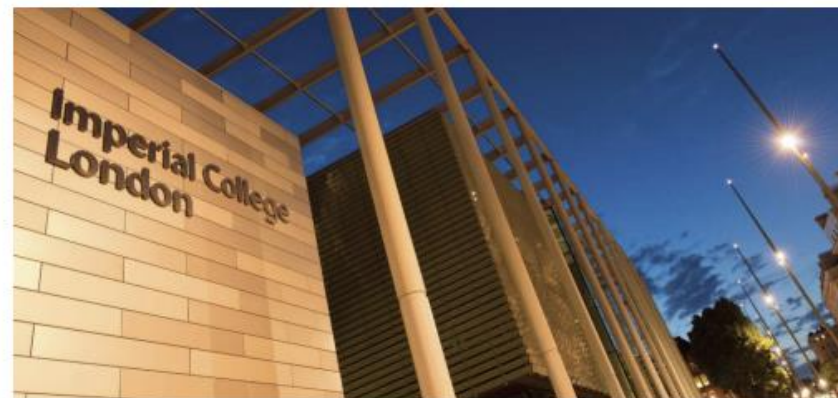
Up to four places for Year 3 students to do summer research in the Department of Chemistry at Imperial College London will be available annually.

Imperial College London is ranked 6th and 10th globally in the QS World University Rankings and Times Higher Education World University representatively. Moreover, the Chemistry Department is one of the leading chemistry departments in the UK with state-of-the-art facilities in South Kensington and at the Molecular Sciences Research Hub at White City Campus, London.

As this internationalization experience is about research work, students must be proficient in chemistry, be in their third year of undergraduate studies, have a minimum overall cGPA of >3.0, and a good GPA in chemistry courses. There will be an interview. Students who are selected will apply for the Overseas Research Fellowship from the Faculty of Science for financial support. In addition, this experience can be credited for the CHEM4966 Chemistry Internship course. We aim to match the student's research interests/abilities with a suitable supervising professor at Imperial College.

Interested students to pursue research from July to August 2023 at Imperial College should send an application email to emilyleung@hku.hk by December 30, 2022, with subject line "#Imperial2023", with application documents including (1) a copy of their latest transcript, which includes the courses taken in 2022-2023 Semester 1, and (2) a CV, which includes basic personal data and the prior activities or research work conducted by the students.

https://chemistry.hku.hk/download/experiential/Summer%20Research%20Opportunities%20at%20ICL%202023%20R1.pdf

1.Apply undergraduate summer research programs

https://sfp.caltech.edu/undergraduate-research/programs/surf/application_information

Pros and Cons of Method 1

- Although it is a bridging agent to connect prof. and international students,

- Research topics might be fixed.

Things to pay attention on! – Time!

Deadlines of the application (there could be multiple rounds of interviews or documents to submit)

ORF: 1st round January 3 to February 24, 2023 (Friday)

2nd round February 25, 2023 to April 12, 2023 (Wednesday)

Visa duration (if you have participated in an exchange program already in the same country that you want to conduct your ORF)

Things to pay attention on! –Visa!

Buy and Show your return flight ticket to the border force officers

Prevent you from being a suspect of illegal immigrant

Things to pay attention on! – Money!

- As stipulated on the ORF offering letter, *'For students who are now or will be on exchange/visiting study overseas, only ADDITIONAL travel cost incurred for participation in the ORF will be reimbursed, such as additional flight between their exchange/visiting host university/institution and the research host university/institution (if they will conduct research in a different institution), and the surcharge or difference in airfare due to change of original departure date. original departure date.'*

Research Experience

- HKU-ICL joint program

- White City Campus

- supervised by Prof. Mimi Hii
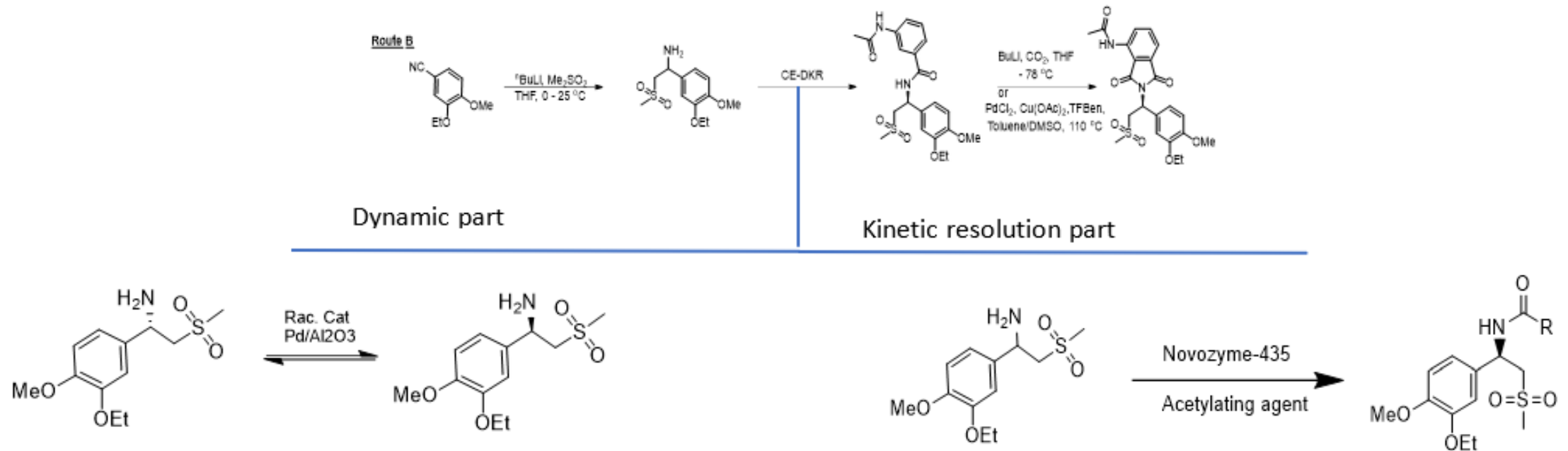
- An efficient synthesis of Apremilast via dynamic kinetic resolution
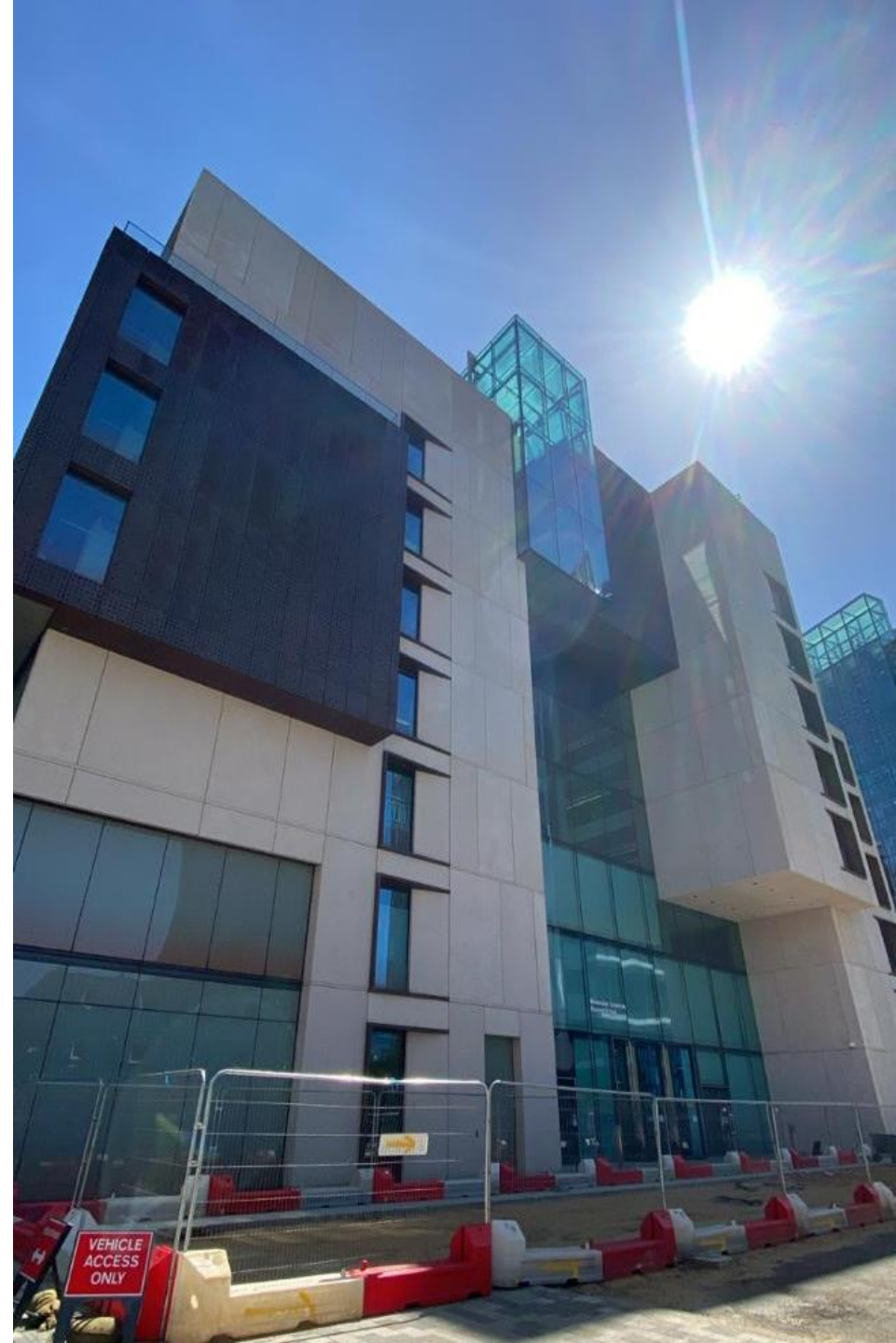
An efficient synthesis of Apremilast via dynamic kinetic resolution

- Apremilast is a drug to treat psoriasis

Advanced Machines

- Multiple NMR machines (Bruker Avanced III 600 MHz NMR)

- EasyMax 102 Advanced Thermostat system

(allows precise parameter control high-quality process data providing key information and records of chemical reactions)

(-40 °C – 180 °C)

(Half a million)

Comfortable Workplace

Conclusion

Not only learning how to conduct research

But also learning how to adapt to unfamiliar environment

Thank you