

Anjana Sathyan
ESR4 Fellow

Institution: Eindhoven University of Technology
Group: Macromolecular and Organic Chemistry
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Meeting 1
Eindhoven, 26th March 2019

2013 -2018 :

Integrated BS-MS program

Indian Institute of Science Education and Research,
Pune

Master's project & : Dr. Pinaki Talukdar

Semester project Supramolecular Chemistry

Semester project : Dr. Harinath Chakrapani
Medicinal Chemistry

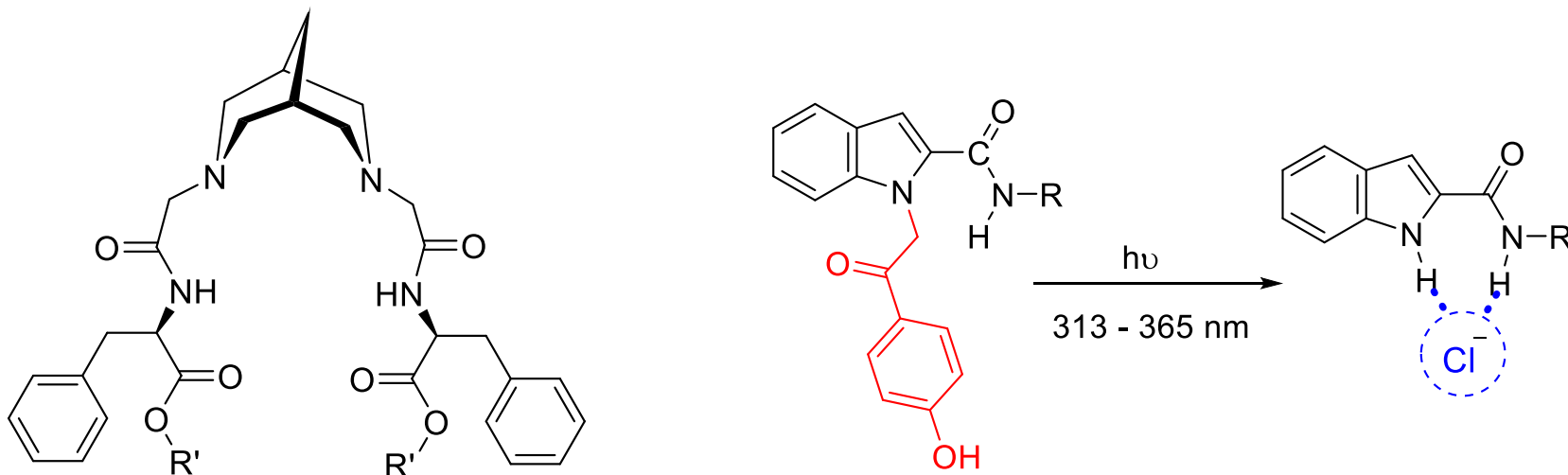
2019 :

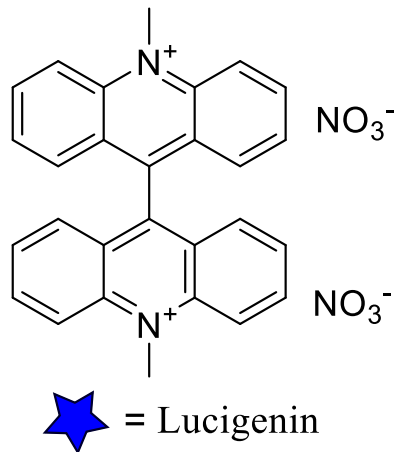
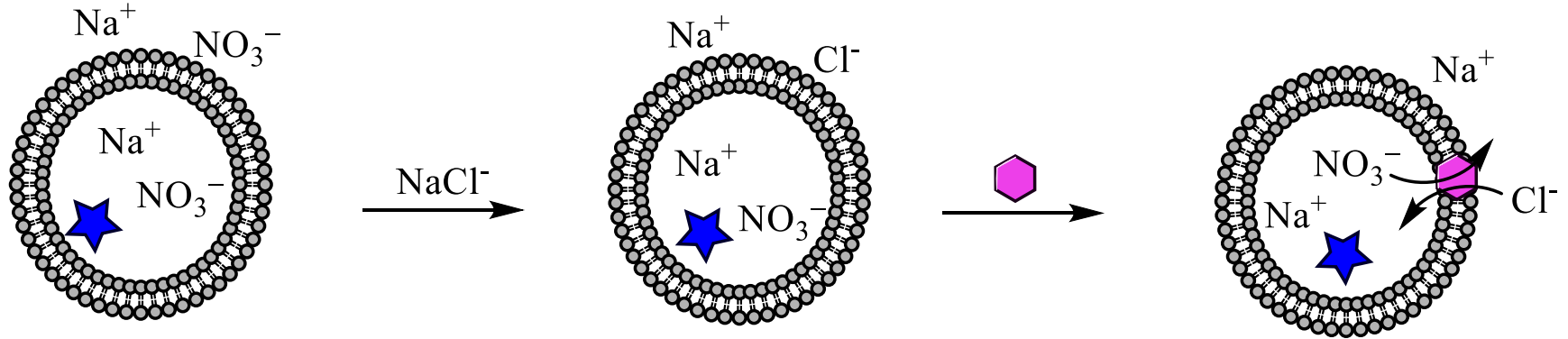
PhD program

Eindhoven Institute of Technology



Main field of work : Organic synthesis – Synthetic Anion Transporters





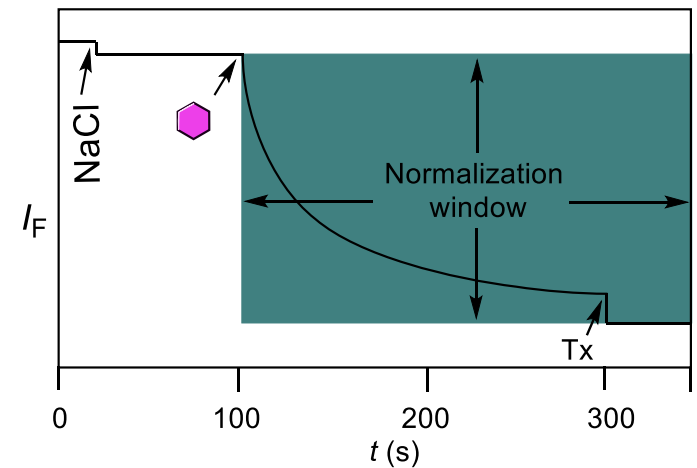
Details of the assay :

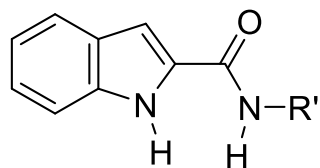
Inside the vesicles :

- 1 mM Lucigenin
- 200 mM NaNO₃

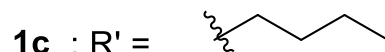
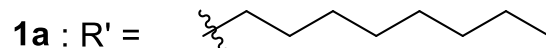
Outside the vesicles :

- 200 mM NaNO₃



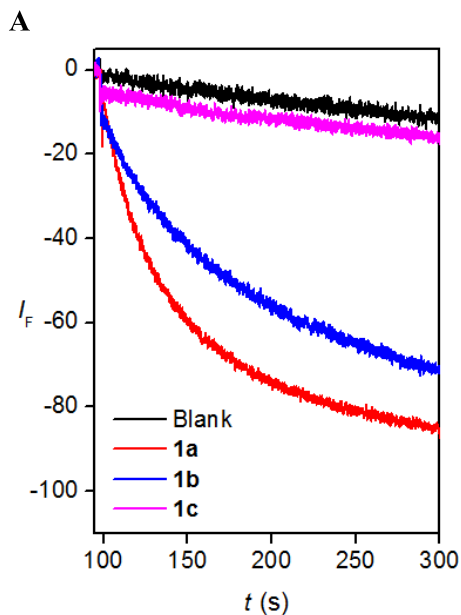


1a-c

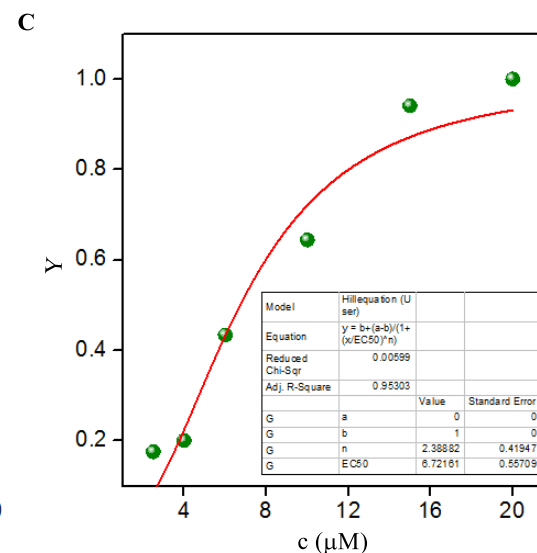
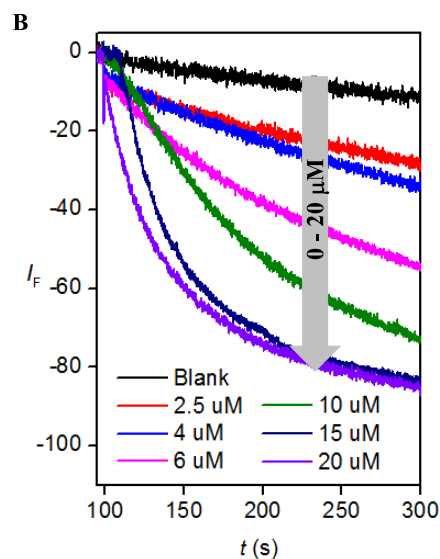


- Activity : **1a** > **1b** > **1c** in accordance with logP value
- EC_{50} : 6.7 μM
- Hill Coefficient : 2

➤ Comparison



➤ Concentration dependent assay



Proof Program at TU/e : Scientific Skills
Scientific Integrity
Writing articles and Abstracts

Project Plan :

- Single chain character of SCPNs as a function of time and medium complexity
- Stability of metal catalysts inside the folded structure as a function of time and medium complexity

Thank you..