

Laura LEVY

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Education

- Since 2024 **Ph.D. candidate** under the supervision of Dr. Ori Green at the Schulich Faculty of Chemistry, Technion Israel Institute of Technology, Haifa, Israel
- 2019-2023 **M.Sc** at CPE Lyon, France (Graduate school of Chemistry and Digital Science)
Majors: organic and analytical chemistry, process engineering
Options: advanced organic syntheses
- 2022-2023 **Master of Science** “Organic Synthesis and Chemistry of Bioactive Molecules” from the University Claude Bernard Lyon 1, France
- 2016-2019 **B.Sc.** in Chemistry from the University Claude Bernard Lyon 1, France

Research Experience

- Feb 2023-Aug 2023 **Organometallic Master's internship with Prof. Graham de Ruiter** at the Schulich Faculty of Chemistry, Technion Israel Institute of Technology, Haifa, Israel
Designing specialized ligands centered around a PC_{NHC}P pincer motif with a central N-heterocyclic carbene for iron-catalyzed Kumada cross-coupling.
- Feb 2022-Aug 2022 **Organic Chemistry internship with Prof. Phil Baran** at the Scripps Research, San Diego, USA
Development of cutting-edge electrochemical methods for use in organic synthesis
- July 2021-Jan 2022 **Organic Chemistry internship with Prof. Ilan Marek** at the Schulich Faculty of Chemistry, Technion Israel Institute of Technology, Haifa, Israel
Research on an efficient synthetic route toward a new family of enantioenriched cyclopropanes and alkylidene cyclopropanes
- Aug 2020 **Analytical Science internship in Danone Nutricia Research Company**, Palaiseau, France
Preparation of aromatic solutions for the Analytical Sciences group
- July-Aug 2019 **Organic Chemistry internship with Prof. Ilan Marek** at the Schulich Faculty of Chemistry, Technion Israel Institute of Technology, Haifa, Israel
Regio- and diastereoselective copper-catalyzed carbomagnesiation for the synthesis of penta- and hexa-substituted cyclopropanes
- June-July 2018 **Organic Chemistry internship with Dr. David Gueyraud** at the Institute of Chemistry, Molecular and Supramolecular Biochemistry (ICBMS), Villeurbanne, France
Synthesis of substituted indolizidines and quinolizidines by regioselective intramolecular Modified Julia Olefination of imides

Publications

- Raison, B. *et al.* Synthesis of Substituted Indolizidines and Quinolizidines by Regioselective Intramolecular Modified Julia Olefination of Imides. *J. Org. Chem.* **2020**, *85*, 864-875.
- Cohen, Y. *et al.* Regio- and Diastereoselective Copper-Catalyzed Carbomagnesiation for the Synthesis of Penta- and Hexa-Substituted Cyclopropanes. *Angew. Int. Ed.* **2021**, *60*, 11804-11808.
- Gao, Y.; Zhang, B. *et al.* Ni-Catalyzed Enantioselective Dialkyl Carbinol Synthesis via Decarboxylative Cross-Coupling: Development, Scope, and Applications. *J. Am. Chem. Soc.* **2022**, *144*, 10992-11002.
- Zhang, B; He, J.; Gao, Y. *et al.* Complex molecule synthesis by electrocatalytic decarboxylative cross-coupling. *Nature*, **2023**, *623*, 745–751.
- Panda, J. *et al.* Iron Catalyzed Aryl–Aryl Kumada Cross-Coupling: A Mechanistic and Computational Investigation. *Angew. Chem. Int. Ed.* **2026**, *65*, e3094782.

Teaching Experience

- 2019-2023 Tutored high school students in mathematics, physics, and chemistry for 3 years.
- 2025-2026 Supervised a Bachelor's project student for one semester, providing guidance in laboratory work, data analysis, and literature review.

Poster Presentation

- 2026 The 89th Annual Meeting of The Israel Chemical Society **2025**
“STEPFS: Spatio-Temporal Protease Fluorescent Sensing” Poster Presentation