Dror Oren, Ph.D.

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Education

2015-2020 **Ph.D.** David Milstein lab, Organic chemistry department, Faculty of chemistry, Weizmann Institute of Science.
- Activation of small molecules using synthesized organometallic complexes.
- Lab work included multi step synthesis of phosphine based ligands.

2013-2015 **M.Sc.** Organic chemistry department, Faculty of chemistry, Weizmann Institute of Science.
- Synthesis and characterization of Nickel pincer-type complexes.
- Use "green chemistry" for the activation of carbon dioxide.

2008-2012 **B.Sc.** Department of chemistry, Ben-Gurion University.
- Research project with Dr. Iris Visoli-Fisher in the field of interfaces.
- Formation of multi-layer photovoltaic cell.

Work Experience

2012-2013 **Researcher** Ada Yonath lab, Weizmann institute of Science.
- Growing cells, ribosome purifications and crystallization.
- X-Ray crystallography.

2018-2019 **Advisor for app development** Davidson institute, participation in an app development team as an advisor.

2012-2020 **Science teaching** Davidson institute, for high school and students. Various scientific subjects including organic chemistry and physics.
- Refereed in an international physics competition in London for 2 consecutive years.

2017-2020 **Head of the Weizmann student council**

10.20-present **R&D Team leader** at "Sufresca". Developing edible coatings for fruits and vegetables.

Skills

- Experience with multi-step organic and inorganic synthesis.
- GC.MS, IR, U.V-Vis spectroscopy, NMR analysis, X-ray crystallography, various Schlenk-techniques.
- Highly trained with efficient, documented and organized chemical lab work.
- Experience with leading a team.
- Fast learner, very curious. Always happy to learn new things.

Languages

- Hebrew – native speaker
- English – high proficiency

Publications

1. **D. Oren**, Y. Diskin-Posner, L. Avram, M. Feller, D. Milstein, "Metal–Ligand Cooperation as Key in Formation of Dearomatized Ni^{II}–H Pincer Complexes and in Their Reactivity toward CO and CO_2" *Organometallics* **2018**, *37*, 2217–2221.
2. P. Daw, A. Kumar, **D. Oren**, N.A Espinosa-Jalapa, Y. Diskin-Posner, G. Leitus, L.J.W Shimon, R. Carmieli, Y. Ben-David, D. Milstein , "Redox Noninnocent Nature of Acridine-Based Pincer Complexes of 3d Metals and C–C Bond Formation" *Organometallics* **2020**, 39, 279-285.
3. Y.Q. Zou, S. Chakraborty, A. Nerush, **D. Oren**, Y. Diskin-Posner, Y. Ben-David, D. Milstein. "Highly Selective, Efficient Deoxygenative Hydrogenation of Amides Catalyzed by a Manganese Pincer Complex via Metal–Ligand Cooperation" *ACS catalysis* **2018** 8, 8014–8019.
4. **D. Oren**, P. Daw, A. Kumar, Y. Diskin-Posner, Y. Ben-David and D. Milstein, "Ammonia as Nitrogen Source in the Synthesis of Imines, Nitriles and Amines via Nickel-Catalyzed Alcohol Dehydrogenation" submitted for revision.