

# Sean Adler

## Experience

---

- 2026–Present: Teaching Assistant (TA), Schulich Faculty of Chemistry. Organic Chemistry – Spring 2026.
- 2021: Academic research, Department of Molecular Chemistry and Materials Science, Weizmann Institute of Science. Research focused on self-assembly of decorated nanoparticles and organic photoswitches.

## Education

---

- 2025–Present: PhD. program under Dr. Ori Green and Dr. Nir Hananya supervision, Schulich Faculty of Chemistry, Technion - Israel Institute of Technology.
- 2018–2021: MSc at Prof. David Margulies's Lab, Organic Chemistry Department, Weizmann Institute of Science. Thesis title: "*Non-covalent modification of bacterial membrane proteins on a gold surface*".
- 2017: Participated in the "Young Weizmann Scholars" program at the Organic Chemistry Department.
- 2015–2018: B.Sc Double Major Chemistry (Major) and Biology (Minor) – **Graduated with honors (cum laude)** in chemistry, at the Tel-Aviv University.

## Skill Highlights

---

### Organic Synthesis:

- Multi-step Organic Synthesis.
- NMR (1H, 13C, etc.) – full operation of instrument and spectral analysis.
- HPLC separation (PREP. and ANALYTICAL), automatic column instrument.
- LC-MS analysis.
- Inorganic nanoparticles synthesis.

### Surface Chemistry:

- Cleanroom work experience.
- EBPVD (Electron-beam physical vapor deposition) instrument operation.
- Organic monolayers formation and characterization (Plasma Asher, Contact angle, Ellipsometry, etc.).
- Nanowires growth on solid support.

### Microscopy and Spectroscopy:

- SEM and TEM operation and analysis.
- Bright-field microscopy and Fluorescent microscopy.
- UV-VIS spectrophotometer and plate reader work.
- Growing *E. coli* cell culture in liquid medium.

### General:

- Interpersonal skills.
- Team player.
- Quick learner, self-taught and independent mind.
- Pro-active and highly motivated to excel.

## Publications

---

- Adler S, Motiei L, Mankovski N, Cohen H, Margulies D (2021). Fluorescent Labelling of Cell Surface Proteins on a Solid Support. *Isr. J. Chem.* 2021, 61 :239-243.

## Contact

---

- 052-6639204    sean.adler@campus.technion.ac.il    [sean8adler@gmail.com](mailto:sean8adler@gmail.com)