

Curriculum Vitae – Keti Lerman

Personal Background:

Full name: Keti Lerman

Date of birth: 26.07.83

Address: Tzahal 47/7, Kiryat-Ono

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Education:

2008-2012: Ph.D. in Organic chemistry, under the supervision of Prof. A. Albeck, Department of Chemistry, Bar Ilan University, Ramat Gan, Israel.

Thesis Title: "A Novel Chemo-Enzymatic Approach to the Synthesis of Optically Active Highly Functionalized Building Blocks for the Construction of Peptidyl Olefin Peptidomimetics."

2006-2008: M.Sc. in Organic & Medicinal chemistry, *summa cum laude*, under the supervision of Prof. A. Nudelman, Department of Chemistry, Bar Ilan University, Ramat Gan, Israel.

Thesis Title: "Synthesis of Novel Inhibitors of the Reverse Transcriptase of the HIV Virus".

2003-2006: B.Sc. in Medicinal Chemistry, *summa cum laude*, Department of Chemistry, Bar Ilan University, Ramat Gan, Israel.

Professional Experience:

2018-Today: Research scientist/Project cooperater, Recipharm Israel Ltd.

- Leading and participating in research and development of projects.
- Customer relationships management, working in multidisciplinary environment, writing quotations and scientific reports, literature survey, Gant chart planning.
- Management of projects in multidisciplinary fields in accordance with customer requirements: design, synthesis and identification of organic molecules based on analytical and spectroscopic tools, development of analytical methods for API characterization, preformulations, stability, solubility, pKa, LogP assays, compounds quantification, chromatography and more, from the literature research phase to delivery to the customer.

2016-2018: Research scientist, Teva Pharmaceuticals Industries Ltd.

- Developing of innovative API's and scalable processes for chemical manufacturing.

- Developing of analytical methods for the drug substances and intermediates.
- Working in multidisciplinary environment with daily collaboration with other departments, writing scientific reports, working at large scale, analysis of results based on analytical and spectroscopic tools.

2015-2016: Research assistant in Prof. B. Fischer's laboratory, Department of Chemistry, Bar Ilan University.

Designs and development of modified nucleosides/nucleotides and nucleic acids for the treatment of Type II diabetes, Alzheimer's disease, glaucoma, osteoarthritis, and inflammatory bowel diseases.

2012-2015: Research assistant at Prof. C. Sukenik laboratory, Department of Chemistry, Bar Ilan University.

- Creation of nanoscale organic and inorganic coatings.
- Manager of a research projects in the field of synthetic organic chemistry.
- Professional guidance and assistance for students in advanced degrees.

Teaching experience:

2015-2016: Teaching assistant, General and Analytical chemistry for undergraduate students, Sami Shamoon college of engineering.

2013-2016: Lecturer of chemistry at Overseas Medical Education college.

- Teaching of general and organic chemistry courses as a part of preparatory program for medicine faculties in Europe.
- Building lesson plans, writing exercises, tests and exams.

2010-2012: Teaching assistant, Organic/Advanced Organic chemistry for undergraduate students, Department of Chemistry, Bar Ilan University.

2007-2010: Teaching assistant, Organic Chemistry Laboratory for undergraduate students, Department of Chemistry, Bar Ilan University.

Relevant Skills:

- Wide experience in modern analytical methods such as: NMR (1D, 2D techniques), HPLC (analytical and preparative), LCMS, GC-MS, UV-Vis, IR, MS.
- Analysis and identification of compounds using various analytical methods.
- Development of analytical methods.
- Wide experience in purification methods, development of TLC methods, work on CombiFlash, Puriflash.

- Experience in enzymatic and microwave chemistry, including the use of STAT Titrino and microwave reactors.

Computer Knowledge:

- Microsoft office
- ChemDraw, ChemWindow, SciFinder, GanttProject

Languages:

Hebrew, English, Russian

Publications:

European Journal of Medicinal Chemistry 2011, 46, 447-467

Structure-activity relationship studies of 1-(4-chloro-2,5-dimethoxyphenyl)-3-(3-propoxypropyl)thiourea, a non-nucleoside reverse transcriptase inhibitor of human immunodeficiency virus type-1.

Langmuir 2014, 30(45), 13596-13605

Odd-even effect in molecular electronic transport via an aromatic ring.

Journal of Electron Spectroscopy and Related Phenomena (2015), 204, 149-158.

Effect of binding group on hybridization across the silicon/aromatic-monolayer interface.