

Stella Kiel

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Creative and enthusiastic research professional with high self-learning abilities and a PhD with a focus on nanoparticle drug delivery and new material synthesis. My areas of expertise includes project design and management, data analysis and interpretation, and the development and implementation of research tools.

Experienced Teaching Assistant with a demonstrated history of working in the higher education industry. Skilled in chemistry, surface chemistry, materials science, sonochemistry, biopolymers, nanomaterials, nanoparticles, drug delivery as well as in vivo and in vitro studies.

EMPLOYMENT EXPERIENCE

- 03.2021-present Senior Scientist at Ariel Scientific Innovations LTD (ASI) Ariel University.
- 2017-03.2021 Postdoctoral researcher, National Agriculture And Food Research Organization. Within the Laboratory of Advanced Materials and Food Science as a Postdoctoral Scholar, I am leading a project on novel smart nonwoven materials that release an antimicrobial agent upon external stimuli.
- 2012-2016 Teaching assistant, Bar Ilan University. Supervision of undergraduate students, assistance with program development, student assessment, assistance with exam development.

EDUCATION

Bar-Ilan University (2012-2017)

PhD, Chemistry

Israeli Ministry of Economy and Industry-funded research titled: "Synthesizing and characterizing proteinoids and basic proteinoid nanoparticles for biomedical applications". Supervisor: Professor Shlomo Margel, department of chemistry, faculty of exact sciences, Bar Ilan University.

Bar-Ilan University (2010-2012)

M.S., Chemistry

The research titled: "Embedding nanoparticles of inorganic salts in various media using sonochemistry". Supervisor Professor Aharon Gedanken, department of chemistry, faculty of exact sciences, Bar Ilan University.

Ariel University Center of Samaria (2005-2009)

B.Sc, Biological Chemistry

During my studies, I performed the following labs: general chemistry, analytical chemistry, physical chemistry, organic chemistry, inorganic chemistry, biochemistry, and biology of the cell,

medical chemistry. My final-year project was delivering a seminar on "Coumadin/Warfarin – mechanism of action and side effects".

LANGUAGES

Russian – Native language || Hebrew – Native language || English - Proficient user

PUBLICATIONS

- S. Kiel, M. Koltz-Domb, E. Corem-Salkmon, I. Grinberg, S. Margel Engineered Doxorubicin Delivery System Using Proteinoid-Poly (L-Lactic Acid) Polymeric Nanoparticles of Narrow Size Distribution and High Molecular Weight for Cancer Treatment, *International Journal of Nanotechnology and Nanomedicine* 2017; 2(1):1-11
- S. Kiel, O. Grinberg, N. Perkas, J. Charmet, H. Kepner, A. Gedanken. Forming nanoparticles of water-soluble ionic molecules and embedding them into polymer and glass substrates, *Beilstein J Nanotechnol.* 2012; 3:267-76
- S. Kiel, M. Klein, Y. Kroupitski, U. M. Peiper, S. Sela (Saldinger) and E. Poverenov Air-ozonolysis activation of polyolefins versus use of laden finishing to form contact-active nonwoven materials (accepted), *Scientific reports*

Publication in preparation:

- S. Kiel and E. Poverenov Two sustainable methods for covalent grafting of the β -cyclodextrin-thymol complex on PET/viscose platform to form safe and rechargeable protecting films for dry food commodities

SKILLS

Synthesis and analysis of new materials	Nanofabrication	Drug Design
Sonochemistry	Nanotechnology	Drug Delivery
Synthesis of biopolymers and their characterization	Surface modification of nanoparticles and their further analysis	Analyzing nanostructures using Spectroscopy

CONFERENCES AND PRESENTATIONS

- NanoIsrael 2016 Conference - Poster session on "Engineering of Basic Proteinoids and Proteinoid Nanoparticles for Biomedical Applications"
- The 3rd NANOMED Conference 2015, Manchester, UK - Paper on "Engineering of Basic Proteinoids and Proteinoid Nanoparticles for Biomedical Applications"

Honors and Awards

- "Milgat Hanasi" scholarship for excellent Ph.D. students
- "Proteinoid compounds, the process of preparing same and uses thereof"

Patent issued Feb 16, 2017. Patent number: us 20170042827

REFERENCES

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