Curriculum Vitae

Dr. Om Shanker Tiwari
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EDUCATIONAL QUALIFICATIONS:

Ph.D. in Chemistry
Research Advisor: Prof. Krishna N. Ganesh
Department of Chemistry, Indian Institute of Science Education and Research (IISER), Pune, Maharashtra, India.
Thesis Title: *Effects of Nucleoside and PNA Conjugation on Self-assembly of Diphenylalanine (Phe-Phe).*

Master of Science in Chemistry (M.Sc.)
IISER Pune, Maharashtra, India
Department of Chemistry

WORK EXPERIENCE:

Research:
Currently working as a **Post-Doctoral Research Fellow (PDF)** in Prof. Ehud Gazit's research group from **1st September 2021** to till date in the area of **Molecular Structure, Supramolecular Self-Assembly, Co-assembly, Crystallization, Co-crystallization, Organo-Catalysis at the Nano-Scale and Nano-carrier based on peptide nanostructures for controlled drug delivery, biosensors, catalysis, piezoelectricity and energy storage devices.**

RESEARCH EXPERTISE:

- Strong background in the synthesis of different Peptide Nucleic Acid (PNA) by solution phase as well as solid-phase synthesis and Electrochemistry.
- Synthesis and characterization of new class of hybrid peptide.
- Adequate knowledge for the structural characterization of the peptide both in solution and solid phase.

- **PUBLICATIONS:**

5. **Tiwari, O. S.;** Rencus-Lazar, S.; Gazit, E. "*Advances in Self-Assembly of Metabolite Nanostructures: Physiology, Pathology and Nanotechnology*" ***ChemNanoMat****,* **2022**, e202200055.

4. **Tiwari, O. S.** "*Synthesis, Characterization, Investigation of Capacitance and Redox Properties of Self-assembled Phe-Phe with Ferrocene Conjugates*" ***Mol. Syst. Des. Eng.***, **2022**, *7*, 171-181.

3. Datta, D.; Jana, S.; [#] **Tiwari, O. S.;**[#] Ganesh, K. N. "*Tubular to spherical mesoscopic self-assembly of C- and N-termini capped dileucines*" ***Peptide Science*** **2019**;e24134.

2. Datta, D.; [#] **Tiwari, O. S.;**[#] Gupta, M. K. "*Self-Assembly of Diphenylalanine−Peptide Nucleic Acid Conjugates*" ***ACS Omega*** **2019**, *4*, 10715−10728.

1. Datta, D.; [#] **Tiwari, O. S.;**[#] Ganesh, K. N. "*New archetypes in self-assembled Phe-Phe motif induced nanostructures from nucleoside conjugated-diphenylalanines*" ***Nanoscale*** **2018***, 10,* 3212-3224.