

Sucheta De

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Education

- 2019 – 2026  **Ph.D., Tel Aviv University** Immuno-oncology and Virology
Thesis Defended on 4 February 2026.
- 2012 – 2017  **Integrated B.Tech and M.Tech., KIIT School of Biotechnology** in Biotechnology.

Research Experience

- Oct 2019 – Feb 2026  **Research Scholar**, Tel Aviv University
(Defended on 4th Feb) Supervisor: Prof. Marcelo Ehrlich
Thesis title: Signal transduction crossroads as fate determinants of the interactions of oncolytic viruses and cancer cells
- Oct 2017 – Feb 2019  **Junior Research Fellow** Bioassay lab, Translational Health Science and Technology Institute (THSTI)
Supervisors: Dr. Guruprasad Medigeshe and Dr. Gagandeep Kang
Project: Indian Impact Studies; New State Roll Out
- Jan 2017 – Jul 2019  **Master Student** Cellular and molecular Virology Lab, Translational Health Science and Technology Institute (THSTI)
Supervisor: Dr. Guruprasad Medigeshe
Master's Dissertation: Cloning and purification of Respiratory Syncytial Virus NS1 protein to identify interacting proteins.
- Jun 2015  **Summer Intern** National Institute of Cholera and Enteric Diseases (NICED)
Supervisor: Dr. Triveni Krishnan
Summer internship project : Clinical Diagnostics for Acute Watery Diarrhea and HIV cases by implementing molecular virology techniques.
- May 2014 - Jun 2014  **Summer Intern** The Calcutta Medical Research Institute (CMRI)
Supervisor: Dr. Susruta Sen

Research Publications

Journal Articles

-  S. De, S. Kashkash, V. Bozhdansky, E. Bacharach, and M. Ehrlich, “cJun-N-terminal kinase activity and mitosis perturbation drive the 2-methoxyestradiol-mediated enhancement of viral oncolysis by Epizootic Hemorrhagic Disease Virus-Tel Aviv University,” *Scientific Reports*, vol. 15, no. 1, p. 24 624, 2025.  DOI: 10.1038/s41598-025-08687-8.
-  S. De and M. Ehrlich, “Arrest and Attack: Microtubule-Targeting Agents and Oncolytic Viruses Employ Complementary Mechanisms to Enhance Anti-Tumor Therapy Efficacy,” *Genes (Basel)*, vol. 15, no. 9, p. 1193, 2024.  DOI: 10.3390/genes15091193.

Books and Chapters

- 1 S. De and M. Ehrlich, *Nuclear Morphology-Based Assessment of Cell Fates Induced by a Microtubule Targeting Agent as a Single Treatment or Combined with an Oncolytic Virus*. *Methods in Molecular Biology*, Springer Nature, 2025, vol. 2926, ch. 8, pp. 91–100. [DOI: 10.1007/978-1-0716-4542-0_8](https://doi.org/10.1007/978-1-0716-4542-0_8).

Skills

Immunology & Virology	Flow cytometry, immunocytochemistry, virus propagation and infection, plaque and neutralization assays, handling of patient serum samples for immunological assays, BSL-2 handling of viruses (EHDV-TAU, VSV-DM51, HSV-1, JEV, DenV1-4, RSV, rotavirus, WNV).
Molecular Biology	Western blotting, RT-PCR, cloning, transfection, agarose gel electrophoresis, and SDS-PAGE.
Cell Culture & In Vivo Models	Mammalian cell maintenance, cell-based assays, tumour and oncolytic virotherapy models (syngeneic melanoma, prostate cancer xenografts).
Imaging & Analysis	Epifluorescence and confocal microscopy, data organisation and statistical analysis, basic bioinformatics.
Scientific Communication	Scientific writing, presentation, and documentation.

Academic Engagements

Conferences

- 9 – 11 Oct, 2024 **30th European Cell Death Organisation Conference**
Belval, Luxembourg. (Poster)
- 20-May-2024 **2nd Retreat of Shmunis School of Biomedicine and Cancer Research.**
Tel Aviv-Yafo, Israel. (Flash Talk and Poster)
- 28-Jul-2022 **1st Retreat of Shmunis School of Biomedicine and Cancer Research.**
Tel Aviv-Yafo, Israel. (Poster)

Grants and Funding

- 2019-2024 **S Daniel Abraham Institute for Molecular Virology**
Tel Aviv University Funding for doctoral education
- 2019 **TATA Trust-Tel Aviv University PhD Scholarship**
Funding for doctoral education following a competitive open call
- 2022 **Shmunis Excellence Scholarship**
- 2023 **Shmunis Excellence Scholarship**
- 2024 **Shmunis Travel Grant and Tel Aviv University Travel Grant**

Trainings and Certifications

- 18-Feb-2020 **Letter of Authorization for animal experiments for research and teaching purposes**
Awarded by Sackler Faculty of Medicine, Tel Aviv University.
- 01-Mar-2020 **Trained and certified for BSL2+ containment.**

References

- Professor Marcelo Ehrlich marceloe@tauex.tau.ac.il
- Professor Eran Bacharach eranba@tauex.tau.ac.il
- Professor Sara Lavi saralav@tauex.tau.ac.il