

Prof. Tamar (Tami) Geiger
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Tamar Geiger is an associate professor at the Sackler Faculty of Medicine at the Tel Aviv University. She studied biology at the Hebrew University of Jerusalem, Israel, where she also completed her master's and doctoral degrees in biochemistry. She carried out her Ph.D. research under the supervision of Prof. Alexander Levitzki. In 2008 she moved to the laboratory of Prof. Matthias Mann at the Max Planck Institute of Biochemistry, Martinsried, Germany to specialize in proteomics technology and to apply it to cancer research. In October 2011 Tamar moved back to Israel and opened her own research laboratory at the Tel Aviv University. Since 2016 she is an associate professor in the Faculty of Medicine.

Prof. Geiger's research focuses on cancer proteomics. She uses state of the art mass spectrometry-based proteomics technology to study cancer progression and drug resistance mechanisms. She focuses on clinical research of breast cancer, melanoma, ovarian cancer and pancreatic cancer, analyzing clinical tumor samples and body fluids. Her research combines proteomic method development with basic biological research and bioinformatics. Ultimately, her research aims toward cancer biomarker discovery, and provide better understanding of cancer transformation processes.

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Selected publications:

1. **Geiger, T.**, Cox, J., Ostasiewicz, P., Wisniewski, J.R. & Mann, M. Super-SILAC mix for quantitative proteomics of human tumor tissue. *Nat Methods* 7, 383-385 (2010).
2. **Geiger, T.**, Cox, J., Madden, S., Gallagher, W. & Mann, M. Proteomic portrait of human breast cancer progression identifies novel prognostic markers. *Cancer Research* 72, 2428-2439 (2012).
3. Harel, M., Oren-Giladi, P., Kaidar-Person, O., Shaked, Y., & **Geiger, T.** PROMIS-Quan: a novel proteomic method for plasma biomarker quantification. *Mol Cell Proteomics*, mcp-M114 (2015).
4. Tyanova, S., Albrechsten, R., Kronqvist, P., Cox, J.*, Mann, M.* & **Geiger, T.** Quantitative clinical proteomics reveals functional maps of breast cancer subtypes. *Nat Communications* 7:10259 (2016).
5. Pozniak, Y., Lahat, N., Rudolph, J.D., Katzir, R., Avivi, C., Ruppin, E., Barchack, I. & **Geiger, T***. System-wide clinical proteomics of breast cancer

- reveals global remodeling of cellular homeostasis. *Cell Systems* 2(3):172-84 (2016).
6. Rudolph, J.D., de Graauw, M., van de Water, B., **Geiger, T.***, Sharan, R.* Elucidation of Signaling Pathways from Large-Scale Phosphoproteomic Data Using Protein Interaction Networks. *Cell Syst.*; 3(6):585-593 (2016).