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Jonathan Goldberg, PhD
Stephen and Barbara Friedman Chair

Our research group studies the mechanisms of protein trafficking and quality control at the endoplasmic reticulum (ER) in mammalian cells. A major focus of research is on the COPII protein machinery responsible for synthesis of ER-derived transport vesicles. We are exploring the mechanisms utilized by COPII to segregate folded protein cargo from unfolded forms and ER chaperones. We are exploring the coordination of this process with quality control systems that evaluate the folded state. A second focus of research is the cellular response to ER proteotoxicity arising in neurodegenerative disorders such as Parkinson's disease, in cancer, and in insulin resistance. We are studying the protective cellular pathways that detect and clear toxic misfolded proteins via ER and post-ER degradative routes.



Publications Highlights

[Ma W, Goldberg E, Goldberg J. ER retention is imposed by COPII protein sorting and attenuated by 4-phenylbutyrate. Elife. 2017, 6:e26624.](#)

[Ma W, Goldberg J. TANGO1/cTAGE5 receptor as a polyvalent template for assembly of large COPII coats. Proc Natl Acad Sci USA. 2016, 113: 10061-10066.](#)

[Ma W, Goldberg, J. Rules for the recognition of dilysine retrieval motifs by coatomer. EMBO J. 2013, 32: 926-937.](#)

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People




Jonathan Goldberg, PhD

Stephen and Barbara Friedman Chair

The Goldberg laboratory focuses on structural and biochemical characterization of intracellular vesicle transport.

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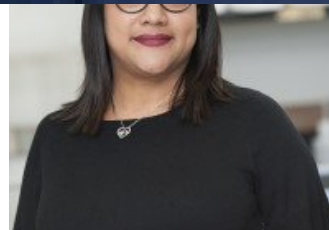
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Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

MSK requires doctors and faculty members to report (“disclose”) the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the public.

Jonathan Goldberg discloses the following relationships and financial interests:

No disclosures meeting criteria for time period

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