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Andrew Koff, PhD

My laboratory has combined biochemical, molecular, cellular, and genetic approaches to investigate the roles of CDK inhibitors in differentiation, development, and cancer biology. An additional major focus of the laboratory is directed towards understanding how these gene products are regulated to accomplish these roles.

[View Lab Overview](https://www.mskcc.org/research/ski/labs/andrew-koff/overview) (<https://www.mskcc.org/research/ski/labs/andrew-koff/overview>)

Research Projects

- [The Lab of Cell Cycle Regulation](#)
- [Clinical Implications of SAGA](#)



Publications Highlights

Kovatcheva M, Liu DD, Dickson MA, Klein ME, O'Connor R, Wilder FO, Socci ND, Tap WD, Schwartz GK, Singer S, Crago AM, and Koff A. MDM2 turnover and expression of ATRX determine the choice between quiescence and senescence in response to CDK4 inhibition. *Oncotarget* 10: 8226-43, 2015

Abbas Manji G, Singer S, Koff A, and Schwartz GK. Application of molecular biology to individualize therapy for patients with liposarcoma. *Am Soc Clin Oncol Educ Book*. 2015:213-8

Dickson MA, Schwartz GK, Keohan ML, D'Angelo SP, Gounder MM, Chi P, Antonescu CR,

Landa J, Qin LX, Crago AM, Singer S, Koff A, and Tap WD. Progression free survival among patients with well-differentiated or dedifferentiated liposarcoma treated with CDK4 inhibitor palbociclib: A phase 2 clinical trial. JAMA Oncol 2: 937-40, 2016.

Kovatcheva M, Liao W, Klein ME, Robine N, Geiger H, Crago AM, Dickson MA, Tap WD, Singer S, and Koff A. ATRX is a novel regulator of therapy induced senescence in human cells. Nat. Comms, 8:386, 2017

Kovatcheva M, Klein ME, Tap WD, and Koff A. Mechanistic understanding of the role of ATRX in senescence provides new insight for combinatorial therapies with CDK4 inhibitors. Mol Cell Oncol 5:e1384882, 2018

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People



Andrew Koff, PhD

- Molecular biologist Andrew Koff is interested in identifying the genes and molecular mechanisms by which cells make decisions regarding their proliferative capacity after they exit from the cell cycle during therapy induced senescence and during normal development.

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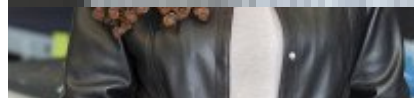
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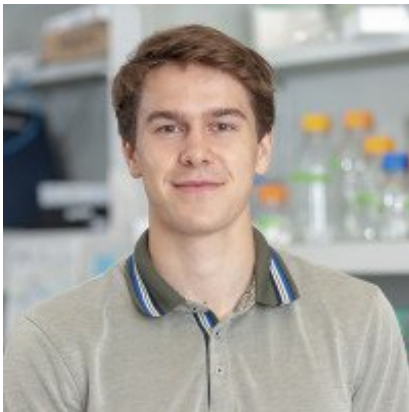
Marta Kovatcheva
Principal Investigator, Clle
Plasticity and Aging, IFOM

Disclosures

Members of the MSK Community 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.

These activities outside of MSK further our mission, provide productive collaborations, and

promote the practical application of scientific discoveries.



Henry Somerby
management is needed.

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Andrew Koff discloses the following relationships and financial interests:

- Atropos Therapeutics, Inc.
Equity; Intellectual Property Rights; Professional Services and Activities (Uncompensated)

- Concarlo Therapeutics, Inc.
Professional Services and Activities
- Eli Lilly and Company
Professional Services and Activities (Uncompensated)
- Novartis Institutes for BioMedical Research, Inc.
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