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Memorial Sloan Kettering  
Cancer Center

[About Us](#)  
[Sloan Kettering Institute](#)  
[The Alexandros Pertsinidis Lab](#)

[Research](#)

## Career Opportunities

[Education & Training](#)

### Postdoctoral Openings

[News & Events](#)

We are seeking highly motivated individuals for postdoctoral positions to join us in developing cutting-edge techniques aimed at gaining a mechanistic understanding of fundamental biological processes. Major emphasis is placed on development of novel single-molecule detection and manipulation instrumentation that pushes the envelope in sensitivity as well as in spatial and temporal resolution. Current projects focus on real-time, in-vivo super-resolution optical nanoscopy and on deep-tissue, chemically-selective non-linear optical imaging. Another area of interest involves high-precision combined single-molecule fluorescence/optical force- and torque-spectroscopy.

Successful applicants will fully utilize the superb technological capabilities of the lab and apply the tools developed to outstanding biological questions. Ongoing projects include: molecular recognition and fidelity mechanisms of DNA replication, mRNA transcription and protein synthesis machines; gene expression and DNA damage response pathways in the context of the nuclear interior; dynamic organization of biological membranes at the nano-scale with emphasis on the early steps of cell-signaling; trafficking at nerve terminals and regulation of synaptic transmission.

### Email

[PertsinA@mskcc.org](mailto:PertsinA@mskcc.org)

#### About Us

[Overview](#)

[Leadership](#)

[Administration](#)

[History](#)

[Contact Us](#)



## ▼ Research

[Overview](#)

[Research programs](#)

[Research labs](#)

[Core facilities & resources](#)

## ▼ Education & Training

[Overview](#)

[Postdoctoral training](#)

[Gerstner Sloan Kettering Graduate School](#)

[Joint graduate programs](#)

[Programs for college & high school students](#)

## ▼ News & Events

[Overview](#)

[Seminars & events](#)

## ▼ Open Positions

[Overview](#)

[Faculty positions](#)

[Postdoctoral positions](#)

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