



(Posted: 03.2019)

Understanding RNA-related mechanisms and dysregulation in leukemia: Postdoctoral Fellow Position at Northwestern University, Chicago, US

The [Ntziachristos laboratory](#) studies the mechanistic aspects of oncogenesis with an emphasis on [transcriptional and epigenetic regulation](#) of acute leukemia. We focus on how oncogenes interact with each other and with [epigenetic modulators](#) to influence [gene expression programs](#) as well as how their function is related to [tri-dimensional \(3D\) structure](#) of the nucleus and other biological aspects of cancer cells, like metabolism. Recent studies from our group focus on how active [deubiquitination](#) controls aspects of oncogenesis, including transcription factors or splicing, and ultimately leads to drug resistance in leukemia. To address these questions, we use high-throughput molecular and cell biology techniques like RNA-Seq, ChIP-Seq, 4C-Seq and HiC, fluorescent in situ hybridization, biochemical analysis e.t.c., in cell lines and primary cells of human origin and tissues of mouse models of disease. In addition to understanding cancer biology these finding help us design and [test targeted therapies](#) in preclinical models of leukemia.

Highly-motivated scientists, that hold a Ph.D. degree or equivalent, and with a strong track record and expertise in RNA biology and biochemistry and the study of splicing factors and phenomena, RNA modifications and RNA-protein interactions are encouraged to apply. The candidates should have knowledge of gene expression biology and of high-throughput methodologies such as RNA-Seq, ChIP-Seq, and eCLIP. Knowledge of bioinformatics analysis is not required but will be an asset for the position. Successful candidates will be part of a multidisciplinary team, with expertise in molecular and cancer biology and bioinformatics, and of projects sought out to understand oncogenic mechanisms in leukemia.

The group is a member of the [Department of Biochemistry and Molecular Genetics](#) and the [Simpson Querrey Center for Epigenetics](#) situated in the campus of Feinberg School of Medicine, Northwestern University, in the heart of the [Chicago metropolitan area](#). The team has access to cutting-edge technology and facilities and is exposed to the vibrant scientific community of Northwestern University and other research centers in the Chicago area. Scientists in the group have the opportunity to present their work and get feedback in Institutional, National and International forums.

The appointment offers competitive salary and generous benefits and the position can be initiated effective immediately. Applicants should submit a cover letter, their curriculum vitae and contact details for at least two referees to panos.ntz@northwestern.edu or pntziachr@gmail.com

Related links:

<https://www.ntziachristoslab.com/research.html>
<https://www.ncbi.nlm.nih.gov/pubmed/?term=ntziachristos+p>
<http://www.feinberg.northwestern.edu/sites/biochem/>
<https://www.cityofchicago.org/city/en.html>

Panagiotis Ntziachristos, PhD

cell:347.703.0048

e-mail: pntziachr@gmail.com

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