



SCIENCE FOR THE BENEFIT OF HUMANITY

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**Subject: Dr. John LaCava - seeking postdoctoral researcher for a cryo-EM project on retrotransposons**

To Whom It May Concern:

We have an open position for a postdoctoral researcher within my team, where the successful applicant will be working in the Laboratory of Cellular and Structural Biology, at The Rockefeller University. The successful applicant will join a project focused on structural analysis of human LINE-1 retrotransposons. Our team has already succeeded in significantly advancing the biochemical and proteomic analysis of LINE-1, see e.g. PMIDs: 31892958, 29309035, and 24267889. For more information on my research portfolio and professional network see: [www.macromolecule.fun](http://www.macromolecule.fun) & [www.ncdir.org](http://www.ncdir.org)

The research will take a hybrid-approach, including cross-linking / mass spectrometry and cryo-electron microscopy. Prior experience with cryo-EM is an absolute requirement. Applicants should have demonstrated experience in cryo-EM sample preparation, data acquisition, data analysis and structure determination. Some experience with immunoprecipitation and proteomics analyses is desirable but the applicant will receive training on-the-job in advanced techniques. We aim to place a qualified researcher in this position by early February 2020.

The Rockefeller University has advanced cryo-EM infrastructure, including three high end dedicated cryo-electron microscopes: one FEI Talos Arctica and two FEI Titan Krios units. This center provides users with the world's most stable dedicated cryo-electron microscopes optimized for high resolution single particle analysis of proteins and protein complexes. Rockefeller University researchers also have access to the New York Structural Biology Center which houses three FEI Titan Krios units along with the Chameleon robot, a novel method for vitrifying samples for cryoEM.

The successful applicant is expected to be highly driven and organized - bringing personal passion, enthusiasm, and professionalism to an already successful team with the same. Day-to-day interactions will additionally include cooperation and collaboration with the laboratories of Profs. Michael P. Rout and Brian T. Chait of The Rockefeller University. The position has an initial term of two years and is potentially renewable contingent upon funding and results.

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