POSTDOCTORAL POSITION: Mechanisms of replication stress response.
Department of Biochemistry, Saint Louis University School of Medicine.

A postdoctoral position is now available to study the mechanisms of replication stress response. We aim to understand the mechanisms that operate in eukaryotic cells to maintain replication fork integrity upon chemical treatment with cancer chemotherapeutics. We combine several state-of-the-art techniques to study DNA replication dynamics in cells, including DNA fiber and electron microscopy approaches. In addition, we combine biochemical and structural approaches to investigate the physical mechanisms by which ATP-dependent motor proteins process central intermediates of DNA replication and repair. For a detailed explanation of our current research activities, see: [http://biochem.slu.edu/faculty/vindigni/](http://biochem.slu.edu/faculty/vindigni/).

The Biochemistry Department at the Saint Louis University School of Medicine is a very stimulating research environment that includes several research groups working on various aspects of DNA and RNA metabolism, providing a unique forum for discussions and exchange of ideas ([http://biochemweb.slu.edu](http://biochemweb.slu.edu)). In addition, the Department has outstanding facilities and resources, including specialized instrumentation for protein purification and analysis, mass spectrometry and metabolomics, x-ray crystallography, and genomic sequencing and analysis. Our close proximity to Washington University School of Medicine provides an additional benefit, allowing the establishment of new collaborations and a joint DNA metabolism and repair seminar series.

Successful candidates are expected to have a Ph.D. degree in life sciences with a special emphasis in biochemistry or molecular/cell biology, depending on the research project they are most interested in pursuing. Previous experience in the fields of DNA replication and repair is a plus. Applicants should also be highly self-motivated and have a strong track record of creativity and productivity. NIH standards will be used in setting the pay scale. Interested candidates should email a current curriculum vitae and the names of three references to avindign@slu.edu. Saint Louis University is an Affirmative Action, Equal Opportunity Employer, and encourages nominations of and applications from women and minorities.

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