Werner Syndrome and DNA damage response signaling

Two postdoctoral positions are available in the laboratory of Asaithamby Aroumougame in the Department of Radiation Oncology of UT Southwestern Medical Center to study Werner Syndrome Protein in Carcinogenesis or DNA damage response signaling in cardiomyocyte turnover. By utilizing more traditional biochemical/molecular biochemical/immunohistochemical approaches, the focuses of our group are to decipher the fundamental mechanisms of tumorigenesis. We are also interested in the study of DNA damage response signaling and radiation in cardiomyocyte turnover.

On the Werner Syndrome side, we are particularly interested in utilizing next generation genome sequencing technologies, including those relevant to sample preparation and data analysis. We then use these methods to characterize genomic mutations, as well as protein modifications, including phosphorylation, and ubiquitination, etc. A few representative recent publications include:


On the DNA damage response signaling in cardiomyocyte turnover side, our group in collaboration with Dr. Hesham A. Sadek in the Department of Internal Medicine, aims to understand the role of DNA damage response signaling and chest radiotherapy in the development of cardiac toxicity using a number of transgenic mice models. Several representative recent publications include:


Candidates must hold a Ph.D. degree and experience in Biochemistry, Molecular biology, Mammalian cell biology, Cancer biology, Genome/RNA Sequencing data analysis, and Immunohistochemistry and confocal microscopy leading to publication in peer-reviewed journals are recommended. Prior exposure to Bioinformatics tools and mice handling is preferred, but NOT required.

Interested individuals should send a CV, statement of interests and a list of three references to:
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