Postdoctoral position: Genomic Instability and Redox Homeostasis in Cancer

Urbain Weyemi lab: University of Texas at Austin, Texas

<https://www.weyemilab.com/>

* Study genomic instability and redox homeostasis in cancer.
* Execute experiments to decipher the interplay between deficiency in DNA repair genes and deregulated redox homeostasis in cancer cells.
* Use transcriptomics and metabolomic tools to assess relationship between DNA repair and cancer cells aggressiveness and metabolism.
* Employs mouse, as well as cellular and molecular biology and biochemical approaches to assess mechanisms of DNA repair and its importance in cancer progression and metastasis.

**Required Qualifications**

PhD in Cancer Biology, Molecular and Cellular Biology, or Biochemistry.  Strong knowledge of cancer biology; and experience in molecular biology, cell biology, genetics techniques (cloning, generation of mutant plasmids, use of short hairpin RNA interference, CRISPR/Cas9 engineering in mammalian cells, etc.). Excellent written and oral communication and ability to work independently.  Ability to define problems, design studies to resolve problems, and draw valid conclusions. Ability to interpret results and analyses to ensure validity of conclusions. Familiarity with engineering and or scientific equipment ordinarily used in college laboratory work.

**Preferred Qualifications**

Ability to perform the following: mouse breeding – tumor implantation (fad pad injection, tail-vein injection, orthotopic xenografts) – mouse pathology-bioimaging. Use of bioinformatics. Tools/Software to analyze gene regulation and cell metabolism (*Partek*, *IPA*, Analysis of *TCGA* datasets, etc.).

**Salary Range**

$47,484+ depending on qualifications

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