Position Title: Postdoctoral Fellow/Research Scientist
Employee: 
Department: CCRTD/Title III
Reports To: Daqing Wu, Ph.D.

The following statements are intended to describe the general nature and level of work to be performed. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified.

General Function (Description):

A Postdoctoral Fellow/Research Scientist position in cancer biology is available immediately at the Center for Cancer Research and Therapeutic Development (CCRTD), Clark Atlanta University. The Postdoctoral Fellow/Research Scientist will study the biological basis of prostate cancer and develop novel preventative and therapeutic strategies. The candidate is expected to utilize structural biology, molecular, cellular and animal approaches. The Postdoctoral Fellow/Research Scientist will design and conduct experiments, and report results in the formats of lab reports, meeting abstracts, presentations, manuscripts, patent applications. The candidate will teach and train in the assigned lab with undergraduate students in the area of cancer biology and therapeutic development. Specifically, the Postdoctoral Fellow/Research Scientist will work closely with student trainees in the following procedures.

Examples of Duties and Responsibilities:

1. Experiments in biochemistry and molecular biology: protein preparation and storage, ELISA, bioaffinity assays, DNA/RNA extraction, regular and real-time PCR, Western blot analysis, immunoprecipitation;
2. Experiments in cellular biology: growth of recombinant bacteria and mammalian cells; use of microscopy in monitoring cell morphology, growth and responses; use of fluorescence microscopy of biomolecules distribution and co-localization;
3. *In vitro* drug screening: manual and automatic screening of potential drug candidates in cell cultures; effect of drug candidates on cancer cell signaling and gene expression; validation of drug targets;
4. *In vivo* drug analyses in animals: manage cancer xenograft colonies, inoculate tumor cells into mice, execute mouse experiments following the approved animal protocols, conduct drug administration through different routes (oral, intravenous, intraperitoneal, subcutaneous), isolate tissues from mice at the endpoint of the experiments, study the toxicity and pharmacokinetics of drug candidates using mice and rats;
5. Histopathology studies: perform immunohistochemistry and other assigned pathological analyses in animal and human tumor specimens;
6. In silicon evaluation of drug candidates: conduct computational analyses of drug candidates and their interaction with targets;
7. Keep meticulous records of all experiments performed and interpretate the obtained data;
8. Assist with the design of experimental protocols and maintenance of laboratory;
9. Report experimental results at lab meetings, group meetings and national-level meetings, report experiments results in the formats of manuscripts and patent applications;
10. Assist professors with lectures in cancer biology and drug discovery.
Knowledge, Skills and Abilities

Candidates should have a solid background in biochemistry, molecular and cellular biology, pharmacology, and animal models. Expertise in laboratory teaching and training is highly desired. Successful candidates should be self-motivated and career-oriented to join an exciting research team consisting of basic researchers, translational scientists and clinicians.

Minimum Hiring Standards:

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