



**Department of Anatomy and Cell Biology
University of Florida Health Cancer Center**

Postdoctoral position to study epigenetics of prostate cancer

A postdoctoral position is available immediately at the University of Florida Department of Anatomy and Cell Biology and Health Cancer Center in the group of Dr. Alexander Ishov <http://acb.med.ufl.edu/faculty-staff/ishov/>. We are looking for a highly motivated and enthusiastic postdoctoral researcher with a strong background in molecular, cellular and cancer biology. The focus of the study is to characterize mechanisms that control androgen receptor activation in the castration-resistant prostate cancer (CRPC) that allow CRPC to circumvent hormonal ablation therapies. The successful candidate will characterize deposition and epigenetic modifications of histone variants as one of potential mechanisms and targets in the CRPC. Project will include ChIP-seq and RNA-seq experiments to determine effects of histone variants on transcriptome, characterization of protein/protein interactions that mediate histone deposition and post-translational modifications in order to elucidate molecular mechanisms of CRPC and to rationally identify novel targeted and combinatorial therapeutic regimens for treatment.

RESPONSIBILITIES Position is in the group of Dr. Alexander Ishov. The postdoctoral researcher will be directly responsible for designing experiments and analyzing the data, under his mentorship. Additionally, the successful candidate will be expected to develop a proficiency in the topic through a continuous survey and review of the existing literature. He/she will prepare manuscripts and contribute preliminary data for grant proposals. He/she will present and discuss results in scientific meetings. The post-doctoral candidate will supervise graduate students and undergraduate students in experimental design and data analysis.

EDUCATION *Required:* A Ph.D. in the fields of cellular or molecular biology. Strong publication record demonstrating the ability to model, analyze and understand complex data, with at least one first-author publication in a peer-reviewed journal. *Preferred:* Experience with training grants writing.

EXPERIENCE/SKILLS *Required:* Cell culture techniques, recombinant DNA technologies, DNA/RNA extraction, purification, and modification, PCR/RT-PCR, Western blots, ChIP, bioinformatics skills, including ChIP-seq and RNA-seq analyses, protein-protein interaction, confocal microscopy. Use of standard software to analyze data, including statistical techniques. Excellent writing and communication skills in English. *Preferred:* Prior experience with prostate cancer studies.

OTHER ATTRIBUTES Capability to work independently, have strong organizational skills and an ability to follow regulatory best lab practices with regard to data handling. Must have good interpersonal skills.

PLEASE INCLUDE CV, one page description of research interests, names and contact information of three references with your application. Incomplete applications will not be accepted. For any questions or inquiries, please contact Dr. Alexander Ishov at ishov@ufl.edu.

The University of Florida is a land-grant institution situated in Gainesville, Florida, which is a diverse community of approximately 120,000 residents. Gainesville is known for its family-friendly environment, affordable living, and proximity to major cities and the beaches. For more information, please visit the web pages for the University of Florida (www.ufl.edu), College of Medicine (med.ufl.edu), and Department of Anatomy and Cell Biology (acb.med.ufl.edu).

The University of Florida is an Equal Opportunity Employer.