Postdoctoral Position – RNA Biology & Cancer

Dr. Olga Anczuków, PhD, Assistant Professor
The Jackson Laboratory for Genomic Medicine, CT

About the position: We are looking for talented postdoctoral candidates to investigate how misregulation of alternative RNA splicing contributes to human disease, with a specific focus on cancer. The positions are fully funded through two NIH grants, and awaiting the proper, enthusiastic applicant.

Our research goals are to: i) define the molecular pathways that regulate splicing factors in normal and cancer cells, as well as during cell differentiation; ii) uncover causal splicing alterations in breast tumors; and iii) identify splicing factors and spliced isoforms which could be used as biomarkers to predict disease progression or drug-response, or as targets for RNA-based therapeutics. Our research uses 3D cell culture models, mouse models including patient-derived xenograft, as well as large clinical datasets, and leverages cutting-edge approaches such as RNA-targeting CRISPR, short- and long-read RNA-sequencing, and single-cell approaches, to decipher the role of spliced isoforms and their regulators.

Our research group, consisting of a postdoctoral associate, two graduate students, and two research associates, is diverse and collaborative. We seek to produce top notch science and foster the development of outstanding, independent scientists through nurturing mentorship and interdisciplinary, collaborative efforts. We have close collaboration with members of the JAX NCI-designated Cancer Center and the Nathan Shock Excellence of Research on Aging Center. For more, visit the **Anczuków Lab** online.

Qualifications:

- PhD (or nearing completion of PhD degree).
- Track record of productivity supported by accepted or in press first-author publications in peer-reviewed journals.
- Experience in RNA biology and/or cancer research.
- Outstanding writing and communication skills, with an ability to work both independently and within collaborative teams productively.
- Required experience with mammalian cell culture, and basic molecular biology techniques such as molecular cloning, RNA extraction, PCR, qPCR, western blotting, and microscopy.
- Experience with computational analysis of sequencing data is a plus.

How to apply: Interested and qualified individuals should send a current CV, a 1-page Statement of Research Interests and Career Goals, and contact information for 3 references to Dr. Olga Anczukow at olga.anczukow@jax.org.

Candidates will be encouraged to apply for competitive foundation and federal training fellowships and awards. Exceptional candidates also have the opportunity to become a JAX Postdoctoral Scholar, a selective award that includes an independent research budget, travel funds, and a salary above the standard postdoctoral scale.

About JAX-GM: JAX-GM is a state-of-the-art genomics research center located midway between NYC and Boston in the heart of Connecticut. JAX-GM draws on The Jackson Laboratory's eight decades of research in mammalian genetics in partnership with the clinical expertise of Connecticut's universities and hospitals to empower the research and medical communities and

industry. Our mission is to discover the complex causes of human disease and develop genomic solutions tailored to each person's unique genetic makeup.