

Senior Scientist – *in vitro* and *in vivo* Pharmacology

Onchilles Pharma is a start-up company founded on breakthrough research that was the first to describe that human neutrophils release a major anticancer protein, called ELANE, that broadly and selectively activates cell death pathways in cancer cells. This fundamental pathway of the innate immune system has the potential for universal anti-cancer activity, independent of genetic mutation. Based on this research, Onchilles is developing a pipeline of first-in-class biologic drug candidates with the potential to be broadly effective against a wide range of cancers.

Overview: We are seeking a highly motivated individual who will be critical for advancing Onchilles Pharma oncology pipeline, facilitating the identification and evaluation of first-in-class biologics, and to support an expanding cancer research and development team.

The ideal candidate will have a Ph.D. in Cancer Biology/ Immuno-Oncology/pharmacology, or a related field of life science, with 5+ years of experience in conducting *in vitro* and *in vivo* cancer biology studies. Additionally, will actively scout the pre-clinical and clinical literature, and patent records, in search for example molecules and study systems to test the pharmacological and safety properties of current and future targets in the Onchilles Pharma portfolio. The position will involve bench-level activities, as well as interactions with research team members focused on target validation and reagent generation for program development. The successful candidate will work in collaboration with a team to provide preclinical data required to drive projects forward into clinical development. Attention to detail, excellent oral and written communication, and strong computer skills are required.

Responsibilities:

- Driving therapeutic innovation and directly contributing to the company pipeline
- Implement complex cellular assays (advanced multi-color flow cytometry, killing assay, T cell assays, Neutrophils assay)
- Culture and maintain cell lines and primary cells, for cell-based assays.
- Proficiency in the isolation and characterization of blood cell subpopulations employing cytometry and additional methods for immune cell analysis
- Manage mammalian cell stock inventory
- Coordinate with other lab members day-to-day lab activities including equipment maintenance, reagent orders, restocking consumables, etc.
- Develop appropriate assays to support analysis of large molecule pharmacology including Pharmacokinetics (ELISA) and pharmacodynamic sample analysis from *in vivo* studies
- Develop syngeneic and xenograft mouse tumor models suitable to screen compounds and address project specific questions.
- Conduct pharmacokinetic (PK) studies in non-tumor bearing mice and pharmacokinetic/pharmacodynamic (PD) studies in tumor-bearing mice
- Conduct dose-range finding studies with clinical observations to monitor safety

- Design, conduct and analyze results of *in vivo* pharmacology studies evaluating antitumor efficacy, mechanism of action and safety in syngeneic and xenograft and specialized tumor models
- Adhere to all local, state, and federal guidelines concerning the use of animals in research.
- Manage collaborations with external partners/CROs to address project needs in a timely fashion.
- Independently evaluate and trouble-shoot experiments in a timely manner
- Summarize data in power point presentations and present results regularly at team meetings, to senior management, to the scientific advisory board and drive data-driven decisions
- Perform diligent and timely note-keeping and work process tracking
- Contribute to writing patents, technical and scientific publications, and regulatory documents

Qualifications:

- Ph.D. in cancer biology/immuno-oncology/pharmacology or related field is required with 5+ years post degree experience, industry experience is a preferred.
- Strong track record of scientific accomplishments demonstrated through publications in regarded journals and intellectual property generation
- Candidates must have a proven ability to design, execute and interpret experiments as evidenced by a track record of publications or sustained contributions in an academic or industrial setting.
- Strong motivation, passion, and commitment to science and engineering of novel entities
- Ability and desire to work in an interdisciplinary scientific team and the willingness to learn new techniques
- The ability to collaboratively work closely with other group members within teams is essential, preferably in a start-up environment
- Development, validation, and/or implementation of *in vitro* and *ex-vivo* assays to evaluate immune cell function; specifically anti-tumor responses, T cell, and Macrophages for both human and mouse. Proficiency in flow cytometry and transcriptional profiling techniques to investigate MOA will be an important part of this role.

Preferred Qualifications:

- Experience in preclinical models of cancer, including Syngeneic, xenograft, GEM, and PDX models
- Cell culture and expansion of cells for animal studies
- Extensive prior experience in handling, design and conduct of *in vivo* studies including pharmacokinetic and pharmacodynamic studies, efficacy studies following IACUC protocol
- Proficient in I.V, I.P and PO dosing

- Expertise in cancer biology and tumor immunology and prior experience in pharmacology
- Experience in conducting studies involving flow cytometry
- Experience in *in vitro* assay development
- Should not have animal allergies

Work Environment:

This job operates in a professional office and/or laboratory environment. The role routinely uses standard office and lab equipment and tools.

Physical Demands:

The employee is frequently required to communicate with peers, clients and scientific advisors; is frequently required to remain in a stationary position (desk, lab bench) and move self throughout laboratory bench and vivarium areas; is constantly required to operate a computer and standard lab and office equipment and tools; is occasionally required to ascend/descend stairs or ladders; and is occasionally required to lift and/or move up to 25 pounds.

The above statements are intended to describe the general nature and level of work being performed. They are not intended to be construed, as an exhaustive list of all responsibilities, duties and skills required. The information provided is representative in that the qualifications and physical demands must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodation may be made to enable qualified individuals with disabilities to perform the essential functions.

Onchilles is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for our employees. Onchilles is committed to providing a work environment of mutual respect where equal employment opportunities are available to all applicants and teammates without regard to any characteristic protected by law. We seek to recruit, develop and retain the most talented people with diverse backgrounds. Onchilles is an Equal Opportunity Employer.

Benefits & Additional information:

We are dedicated to building a team of smart, enthusiastic, creative and self-motivated people passionate about science and curing cancer in a start-up environment. We offer the benefits of large pharma companies. Our employees and their dependents are eligible for medical, dental, vision, life and LTD insurance with a 90% - 100% company contribution. We provide a 4% automatic and immediate match to retirement savings and a generous amount of time off through our vacation, paid holiday, sick and floating time off programs (over 40 days!). Our employees also enjoy many other company perks like a free gym membership, monthly events, other supplemental benefits and cost-free work-life balance programs. We work at the state of the art, LEED-Gold Certified, GradLabs space with a brand-new laboratory, training rooms, and Cafe and lounge areas.

Reasonable accommodation may be made to enable qualified individuals with disabilities to perform the essential functions of our jobs. We are an equal opportunity employer, celebrate diversity and are committed to creating an inclusive environment for our employees. We provide a work environment of mutual respect where equal employment opportunities are available to all applicants and teammates without regard to any characteristic protected by law. For additional information or to apply, please contact hr@onchillespharma.com