



### **Senior Research Associate/Scientist, Translational Biology**

Syros Pharmaceuticals is pioneering the understanding of the non-coding region of the genome to advance a new wave of medicines that control expression of disease-driving genes. Syros has built a proprietary platform to systematically and efficiently analyze this unexploited region of DNA in human disease tissue to identify and drug novel targets linked to genomically defined patient populations. Because gene expression is fundamental to the function of all cells, the Company's gene control platform has broad potential to achieve profound and durable benefit across a range of diseases. Syros is focused on cancer and immune-mediated diseases and is advancing a growing pipeline, including its lead drug candidates SY-1425, a selective RAR $\alpha$  agonist for genomically defined subsets of patients identified by its platform, for a range of cancers including acute myeloid leukemia and myelodysplastic syndrome, and SY-1365, a selective CDK7 inhibitor for a range of blood cancers and solid tumors. Led by a team with deep experience in drug discovery, development and commercialization, Syros is located in Cambridge, Massachusetts.

Syros Pharmaceuticals is seeking an experienced Cell and Molecular Biologist to join a team of highly motivated scientists and clinical researchers in the translational medicine group, who are using recent fundamental insights into transcriptional regulation to discover and validate new oncology targets. This particular role will focus on gaining a deeper understanding of the effect of small molecules on model systems, including mouse studies, and helping to translate these insights in clinically actionable concepts in drugs that are moving forward into clinical development. The successful candidate will be expected to have a high degree of autonomy in designing and analyzing experiments with contributions toward presentations and publications in support of the project. These contributions will help guide the development of programs as they advance to the clinic and in the write up of scientific publications.

The candidate must have a PhD or 3-6 years of experience in academia or industry in maintaining human cell lines in tissue culture, familiar with use of small molecules in cancer biology including mechanism of action studies and must be proficient in standard molecular biology practices including RNA prep and qPCR. Experience with in vivo models of cancer and IHC based follow up is a plus. An interest in design and execution of experiment with a translational focus to support novel strategies in drug development is highly desirable.

#### **Responsibilities:**

- Performance of protein enrichment (IP) and ChIP-Seq experiments
- Determination of cell line sensitivities to gene regulation modulators
- Design and oversight of in vivo studies
- Tissue culture for cancer cell lines and primary samples
- Execution of overexpression and knockdown (shRNA/siRNA) experiments
- Detailed mechanism of action investigations
- Determination of target engagement from in vitro and in vivo samples
- qPCR and Western blot based expression quantitation of target genes
- Integrated data analysis and interpretation

#### **Requirements:**

- BS or MS degree with 3-6 years of experience or PhD in Cell Biology or related field
- Basic molecular biology skills: DNA and RNA isolation, PCR, molecular cloning, protein processing and immunoblotting
- Familiarity with protein overexpression and knockdown strategies (RNAi and shRNA) in mammalian cells



- Experience with cell viability and apoptosis assays
- Strong attention to detail and the ability to handle multiple tasks
- Desire and ability to work in a fast paced, cross-functional, flexible and team-oriented environment
- Strong interpersonal, verbal and written communications skills
- Experience with mouse models and mechanism of action studies for small molecules is a plus

Candidates who are keen experimentalists, independent thinkers, and enthusiastic team players that have a passion for drug discovery are encouraged to apply. Knowledge of transcriptional regulation and chromatin biology is advantageous.