Translational Bioinformatics Research Scientist

The NSABP Foundation is seeking a qualified Bioinformatics Scientist to join their Translational Molecular Profiling Team within the Division of Pathology. The Division of Pathology at NSABP has one of the world's largest tumor tissue bank collected from the trials with clinical follow up and was a key contributor to the development of OncotypeDx assay for breast and colon cancer. The Pathology Laboratory has profiled and is profiling several large scale gene expression and mutation studies on well annotated clinical trials; therefore providing unprecedented opportunities for bioinformatics investigation. The NSABP Pathology Laboratory also profiles tumors collected from new clinical trials which test new targeted agents. Results of such studies will also yield high profile publications.

The ideal candidate will be able to demonstrate experience in the following areas:

1. Ph.D in Biostatistics preferred but Masters level may apply
2. Strong academic understanding of molecular biological assays and principles.
3. Ability to work independently and with others to carry out molecular biological assays and aid in their analysis.
4. Ability to do quality control of diverse sets of molecular data, including but not limited to microarray, RNA-Seq , and DNA mutation Mass spectrometry
5. Strong computer programming skills
6. Strong communication skills in English
7. Ability to conduct in the biostatistical analyses of correlative science studies in collaboration with other biostatisticians, statisticians and molecular biologists

Desired Skills

8. Able to perform statistical analyses and prognostic model development for gene expression, transcriptome sequencing, miRNA, and mutation profiling data.
9. Able to develop pipelines for analysis of Next-Generation Sequencing data
10. Ability to interact with IT staff to detail hardware needs and to assist in their implementation.
11. Ability to review literature to find and employ bioinformatic tools for analysis of large data sets.
12. Solid working knowledge of survival analysis of gene expression microarray data.
13. Bioinformatics experience to conduct with association studies of molecular markers with clinical data and to generate models for prognosis and treatment prediction.