Senior Research Scientist/Research Scientist Position
Center for Genomics and Systems Biology
NYU Abu Dhabi

A Senior Research Scientist/Research Scientist position in Chemical and Functional Genomics is available at New York University Abu Dhabi. The Center for Genomics and Systems Biology at NYU Abu Dhabi is currently inviting applications for a motivated Senior Research Scientist/Research Scientist to drive the research performed in the Chemical Genomics group.

Identifying bioactive molecules that mediate specific effects in whole organisms is still one of the great challenges in drug discovery. Unfortunately, the vast majority of lead compounds identified with standard in vitro approaches fail to be useful in vivo. *C. elegans* is increasingly being used to identify new bioactive compounds. While libraries of over 26 million small molecules are commercially available, large-scale screening in animals such as mice is not feasible. *C. elegans* is ideal for whole-animal high-throughput (HTP) functional genomics due to its small size, rapid lifecycle, and ease of propagation and manipulation. We have developed HTP screening assays for *C. elegans* (Cipriani and Piano, *Meth Cell Biol* 2011) and computer vision/machine learning guided automated scoring methods (White et al., *IEEE Trans Med Imaging* 2013) that enable millions of RNAi assays by a small team using a semi-automated screening system.

The group in Abu Dhabi has adapted this work to a fully automated screening platform engineered to expand studies into Chemical Genomics.

The successful candidate will have a PhD in Cell Biology, Genetics, Biochemistry or a related field with post-doctoral and/or commercial experience in assay development. Familiarity with *C. elegans* or related nematode biology is preferred as is previous experience with automated systems.

The position of Senior Research Scientist/Research Scientist will include, but are not limited to, the following responsibilities:

- Design and execution of complex chemical genomic screens
- Programming and daily operation of robotics systems
- Data collection, analysis, and interpretation
- Assisting the project PI in staffing the laboratory
- Direct oversight of junior research personnel and undergraduates
- Identification of materials, chemicals, and equipment for procurement
- Oversight of laboratory inventories (chemicals, organisms, etc.)
- Review of pertinent primary literature
- Preparation of experimental findings for publication and presentation

New York University has established itself as a Global Network University, a multi-site, organically connected network encompassing key global cities and idea capitals. The network has three foundational, degree-granting campuses: New York, Abu Dhabi, and Shanghai, complemented by a network of more than fifteen research and study-away sites across five continents. Faculty and students will circulate within this global network in pursuit of common research interests and, cross-cultural, interdisciplinary endeavors, both local and global. In its third year, NYU Abu Dhabi has recruited a cohort of faculty who are at once distinguished in their research and teaching. NYU Abu Dhabi’s highly selective liberal arts
enterprise is complemented by an Institute for Advanced Research, sponsoring cutting-edge projects across the arts, humanities, social sciences, sciences, and engineering.

The position is open until filled. Applicants must submit a cover letter, curriculum vitae (including a list of publications), and up to three representative publications. To complete the online process, applicants will be prompted to enter the names and email addresses of at least three referees. The referees will be contacted to upload their reference letters. Additionally, please email these materials to kcg1@nyu.edu and jl199@nyu.edu.

Please visit our website at http://nyuad.nyu.edu/about/careers/faculty-positions.html for instructions and other information on how to apply. If you have any questions about the application process, please e-mail Vincent Sibilia vs64@nyu.edu.

March 2014 start date is preferred but is flexible through September 2014. Salary and benefits: competitive salary and benefits, including home travel and housing allowances, are offered.

NYU Abu Dhabi is an Equal Opportunity/Affirmative Action Employer.