



School of Medicine

POST-DOCTORAL POSITIONS

Two post-doctoral positions are available in the research groups led by **Francesca Luca** and **Roger Pique-Regi**, at the Center for Molecular Medicine and Genetics, Wayne State University, Detroit, MI. The research focus of the groups is on genetics and genomics of gene regulation. The ultimate aim is to learn about the genetic basis of disease susceptibility and response to treatment.

Examples of collaborative projects include:

- Single cell transcriptomics and epigenomics in heterogeneous tissues
- Functional genomics of gene-environment interactions in molecular and complex traits
- Functional genomics of Host-Microbiome interactions
- High-throughput analysis of non-coding variants of biomedical relevance

We have a strong record in using both **functional** and **population genomics approaches**. We use a combination of high throughput experimental platforms and computational/statistical tools. We seek applicants who are very creative and energetic. We offer the opportunity to train in a collaborative environment that prepares to be competitive in both academic and industry positions. We operate relatively small but well-funded and intense laboratories with shared learning environment, where trainees can benefit from a combined wet/dry lab mentorship. The goal is that everyone should have the resources, support and mentorship needed to be successful and become an independent investigator.

The ideal candidates will have either a strong experimental and/or computational background that will contribute complementary expertise to create a team jointly supervised by Dr. Luca and Dr. Pique-Regi.

The experimentalist position would be under the direct supervision of Dr. Luca, and requires experience in collecting functional genome-scale data and in mammalian cell and tissue culture techniques. Familiarity with the quantitative skills for the analysis of genomic data (e.g., Python, R, scripts for setting up an analysis pipeline) will be highly valued.

For the computational position (under the direct supervision of Dr. Pique-Regi), applicants should have a strong background in quantitative/statistical skills, and a very strong interest in biological applications. A background in genomics, gene regulation or statistical genetics is an advantage, although we will consider outstanding candidates with quantitative degrees (e.g. in Statistics, CS, or Engineering).

Salary will be very competitive and commensurate with the applicant's experience/abilities.

The Detroit metropolitan area is a vibrant center of manufacturing, services, health care, culture, entertainment and sports, with affordable housing and an excellent airport with direct connections to most big cities in the world. Wayne State University (WSU), located in the center of Detroit, is a nationally recognized public research university with an urban mission of research, teaching and service. WSU is a public Carnegie Doctoral/Research Extensive institution with 13 academic schools and colleges offering more than 350 undergraduate, graduate and professional degrees. WSU encourages applications from women, people of color, and other underrepresented people. WSU is an affirmative action/equal opportunity employer.

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Apply by March 5th: https://jobs.wayne.edu/applicants/jsp/shared/Welcome_css.jsp
Posting #044166.