



**Job Description (Apply online at “Working for Sanofi Global” or “ZipRecruiter” to JOB ID R2517650):**

We are seeking a highly motivated and creative PhD level post-doctoral candidate to explore early stage research on the role of complement activation and vascular inflammation in sickle cell disease. The successful candidate will provide scientific leadership and play a pivotal role in advancing the understanding of complement and inflammation in the pathology of sickle cell anemia and other hematological disorders utilizing available mouse models in vivo and human donor samples to develop and explore in vitro models. The candidate will benefit from collaboration with other scientists in Sanofi Rare Blood Disorders research group, but will assume responsibility to complete leading edge research for presentation in major scientific meetings and publication in high impact journals. The ideal candidate possesses a deep understanding of complement biology, hematology and vascular inflammation with a commitment to understanding the pathology of sickle cell disease.

**Responsibilities:**

- Lead research efforts in Sanofi Rare Blood Disorders to execute leading edge research to understand the role of complement activation and vascular inflammation in sickle cell disease.
- Characterize global and selective blockade of complement components to decrease complement activation in sickle cell mice using genetic knock-outs and inhibitory antibodies.
- Design and execute experiments to further understand the role of complement activation and inflammation in vascular occlusion and organ pathology.
- Explore the interactions between vascular adhesion molecules and components of the complement cascade and their contribution to sickle cell pathology.
- Develop assays to characterize pathways leading to complement deposition on circulating red blood cells and subsequent hemolysis.
- Maintain a working knowledge of current experimental techniques and literature in the field of complement, vascular inflammation and hemoglobinopathies.
- Share and present scientific results to our multi-disciplinary research group and at external meetings or conferences.
- Complete leading edge research and author scientific manuscripts for publication in high impact journals.
- Work well with colleagues in a matrixed, fast-paced pharmaceutical research environment.

**Qualifications – “the ideal candidate”:**

- Has relevant expertise in in vivo and ex vivo pharmacology, hematology and cellular immunology.
- Has a working knowledge of complement, the immune system and sickle cell disease.
- Is experienced and comfortable handling small animals and models of transgenic mouse pathology.
- Is experienced in tissue culture, cell based assays, flow cytometry and ex vivo assays.
- Possesses an understanding of research in red blood cell pathology, hemolytic anemias or hemoglobinopathies.
- Is up-to-date on relevant literature and applies knowledge to current issues in complement, inflammation and hematology.
- Effectively communicates and collaborates in a multi-disciplinary team environment.
- Can work independently and proactively; is a self-starter and results-driven.
- Has a track record of completing independent research and publishing and presenting results.

**Education:**

PhD in Immunology, Hematology, Vascular Biology or relevant biological science. Postdoc training in a related field is a plus.

*Sanofi US Services, Inc. and its U.S. affiliates are Equal Opportunity and Affirmative Action employers committed to a culturally diverse workforce. All qualified applicants will receive consideration for employment without regard to race; color; creed; religion; national origin; age; ancestry; nationality; marital, domestic partnership or civil union status; sex, gender, gender identity or expression; affectional or sexual orientation; disability; veteran or military status or liability for military status; domestic violence victim status; atypical cellular or blood trait; genetic information (including the refusal to submit to genetic testing) or any other characteristic protected by law.*

*At Sanofi diversity and inclusion is foundational to how we operate and embedded in our Core Values. We recognize to truly tap into the richness diversity brings we must lead with inclusion and have a workplace where those differences can thrive and be leveraged to empower the lives of our colleagues, patients and customers. We respect and celebrate the diversity of our people, their backgrounds and experiences and provide equal opportunity for all.*