



Discovery Postdoctoral Fellow for Ghana Partnership

Hematology/Immunology Research Area

Chemical Biology & Therapeutics Department

Novartis Institutes for BioMedical Research - Cambridge, MA USA

Approximately 300,000 babies are born each year with sickle cell disease (SCD) in sub-Saharan Africa carrying an estimated 80% of the global disease burden.

Come join us at the Novartis Institutes for BioMedical Research (NIBR), the innovation engine of Novartis, as we work to discover novel therapeutics for sickle cell disease. As part of these efforts, Novartis launched a multi-faceted research and access-to-medicines program with collaborators in Ghana in 2019. This initiative aims to support local partners to improve diagnostic and treatment services while strengthening local workforce capacity through training and mentoring opportunities for scientific and healthcare communities.

Reflecting Novartis's commitments to addressing sickle cell disease and collaboratively building research capabilities in global settings, NIBR is recruiting an early-career scientist from Ghana to join its Chemical Biology and Therapeutics (CBT) department for a postdoctoral term up to 4 years with biology focus. We offer a comprehensive salary/benefits package and cover the selected Fellow's travel costs to the US.

Your key responsibilities include, but are not limited to:

- Establish sickle cell disease-relevant screening paradigms, identify novel targets and elucidate the biological implications modulating these targets.
- Collaborative work with a chemistry postdoctoral fellow.
- Assay development and high throughput screening.
- Target concept valuation using cellular and animal studies.
- Thorough experimental documentation, data analysis and presentation at small and large audience scale.

What you'll bring to the role:

- PhD in Cellular or Molecular Biology with no more than 3 years post-degree experience. Recent graduates and students in their final academic year are encouraged to apply.
- Proficiency in cell culture, transfection and transduction methods as well as flow cytometry analyses of blood lineages.
- Self-motivation, ability to work independently, enthusiasm for working in an interdisciplinary, collaborative research environment.
- Creative problem-solving skills.
- Excellent analytical, communication and organizational skills.
- Ghana citizenship.

Desirable Requirements:

- Prior animal-handling experience preferable.
- Experience in Hematology or Immunology is preferred.
- Experience with assay development or high throughput screening is a plus.
- Strong publication record preferred.
- Preference will be given to scientists who aspire to return to Ghana, upon completion of their postdoctoral training, to continue advancing sickle cell disease research and generation of potential treatments.



Why consider Novartis?

799 million. That's how many lives our products touched in 2019. And while we're proud of that fact, in this world of digital and technological transformation, we must also ask ourselves this: how can we continue to improve and extend even more people's lives?

We believe the answers are found when curious, courageous and collaborative people like you are brought together in an inspiring environment. Where you're given opportunities to explore the power of digital and data. Where you're empowered to risk failure by taking smart risks, and where you're surrounded by people who share your determination to tackle the world's toughest medical challenges.

Why Sickle Cell Disease Research at Novartis?

Because we are committed to reimagining the practice of medicine and the treatment options for patients suffering from sickle cell disease. We desire to provide you with the best post-doctoral experience through a structured post-doctoral program that seeks to develop your talents and provides you access to state-of-the-art instrumentation and facilities. You are empowered to push the frontiers of science and are supported by mentors who like you want to eradicate the burden of sickle cell disease.

How to apply

Please submit your CV together with a cover letter to nibr.scdpostdoc@novartis.com with 'Biology SCD Postdoctoral Fellowship Application' in the subject line. The application deadline is **January, 4th 2021**.

Imagine what you could do at Novartis!

EEO Statement

The Novartis Group of Companies are Equal Opportunity Employers and take pride in maintaining a diverse environment. We do not discriminate in recruitment, hiring, training, promotion or any other employment practices for reasons of race, color, religion, gender, national origin, age, sexual orientation, marital or veteran status, disability, or any other legally protected status.

Our Commitment to Diversity & Inclusion

Novartis embraces diversity, equal opportunity and inclusion. We are committed to building diverse teams, representative of the patients and communities we serve, and we strive to create an inclusive workplace that cultivates bold innovation through collaboration and empowers our people to unleash their full potential.

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to learn more about Novartis and our career opportunities, join the Novartis Network here: <https://talentnetwork.novartis.com/network>



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Chemistry/Chemical Biology Research Area

Global Discovery Chemistry Department

Novartis Institutes for BioMedical Research - Cambridge, MA USA

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Reflecting Novartis's commitments to addressing sickle cell disease and collaboratively building research capabilities in global settings, NIBR is recruiting an early-career scientist from Ghana to join its Global Discovery Chemistry (GDC) department for a postdoctoral term up to 4 years with chemistry/chemical biology focus. We offer a comprehensive salary/benefits package and cover the selected Fellow's travel costs to the US.

Your key responsibilities include, but are not limited to:

- You will collaborate with other scientists at NIBR to execute high quality experiments to identify new chemical matter and protein targets.
- You will be responsible for synthesis, purification and characterization of chemical probes and new chemical matter for Structure Activity Relationships.
- In collaboration with your post-doc mentors, you will execute chemical proteomic experiments, and targeted small molecule mass spectrometry based method development and measurements.
- In collaboration with another Sickle Cell Postdoc, you will seek to understand the biology of these new targets with the goal of developing a lead molecule for in-vivo testing.
- Thorough experimental documentation, data analysis and presentation at small and large audience scale.

What you'll bring to the role:

- Ph.D. in synthetic organic chemistry, medicinal chemistry or related field with no more than 3 years post-degree experience. Recent graduates and students in their final academic year are encouraged to apply.
- Demonstrate a strong technical expertise in modern synthetic methodologies; retro-synthesis, route planning, execution and isolation techniques
- Extensive experience in synthesis, purification, and characterization of organic molecules using modern chromatographic and analytical techniques.
- Self-motivation, ability to work independently, enthusiasm for working in an interdisciplinary, collaborative research environment.
- Excellent analytical, communication and organizational skills.
- Ghana citizenship.



Desirable Requirements:

- Experience in bio-orthogonal technologies (chemical and/or photochemical).
- Experience in analysis and understanding of genetics, cellular pharmacology, chemistry, and molecular biology datasets for hypothesis generation.
- Knowledge of mass spectrometry/proteomics
- Strong publication record preferred.
- Preference will be given to scientists who aspire to return to Ghana, upon completion of their postdoctoral training, to continue advancing sickle cell disease research and generation of potential treatments.

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