We are conducting a search for a collaborative, dynamic and self-motivated **Postdoctoral Fellow** to join the team of **Dr. Lena Ho at Duke-NUS Medical School** in Singapore. The Ho lab is a world leader on small open-reading frame-encoded peptides (SEPs) and specializes in discovering new peptides required for mitochondrial function and metabolism. We previously discovered new mito-SEPs (mitochondrial sORF-encoded peptides) (<https://doi.org/10.1038/s41467-020-14999-2>) and are working to assign molecular functions to them. The lab uses a combination of bioinformatics, biochemistry, animal modelling, Crispr screening and single-cell omics in human and mouse systems to understand how mito-SEPs regulate cellular processes related to energy production. More information can be found at [www.ho-lab.org](http://www.ho-lab.org).

The Postdoctoral Fellow will conduct research to address how mito-SEPs contribute to 3 areas:

1) Respiratory super-complex and respirasome formation

2) Heart Disease

3) Host defence and tolerance to viral infections.

Ideal candidate should have expertise and interest in any of the following areas:

* Mitochondrial biochemistry or bioenergetics
* Cardiac function and physiology including mouse models
* Bioinformatics surrounding metabolic modelling, single-cell or spatial transcriptomics
* Crispr screening
* Innate/Adaptive immunity of viral infections or pathologic inflammation

He or she will be responsible for planning, organising, conducting, communicating research studies and manuscript preparation. The selected candidate will receive extensive and specialized training both within the lab and with our extensive network of external collaborators. The candidate will also receive opportunities to develop independent research questions and to obtain grant funding for career progression. The Ho lab offers a collaborative, nurturing and dynamic environment for growth. Team members value camaraderie, collaboration and believe that the sum strength of a team is more than that of its individual members.

Prerequisites

* PhD in a related scientific area or MD-PhD
* Track record of productivity with publications of high quality in your field of study
* Ambitious and adventurous personality, eager to establish and employ non-conventional approaches
* Conceptual, critical and analytical thinking
* Autonomy and goal-directedness, able to organize and prioritize, with strong problem-solving skills
* Strong team player skills with the ability to function as a critical part of a multidisciplinary whole

Duke-NUS Medical School is the first and only graduate-entry medical school in Singapore established through a landmark collaboration between two world-class institutions: Duke University and the National University of Singapore (NUS), with the objective of providing innovative education and impactful research that enhance the practice of medicine in Singapore and beyond. Duke-NUS provides a unique research environment in Asia where the best basic science is conducted in close collaboration with clinicians from the Singapore General Hospital, resulting in clinically-relevant breakthroughs. For more information, please see <https://www.duke-nus.edu.sg/>.

Join us for am impactful and dynamic time of discovery! Interested applicants, please send your CV and a statement of purpose to [**lena@ho-lab.org**](mailto:lena@ho-lab.org) and [hr@duke-nus.edu.sg](mailto:hr@duke-nus.edu.sg).