A postdoctoral position is available to work on an exciting project at Nanyang Technological University, Singapore. The project focuses on a plant from *Hedyotis* family, which is one of the main anti-tumor ingredients of the traditional Chinese medicine. The plant is strongly and specifically active against breast cancer lines. The aim of the project is to figure out which metabolite(s) is conferring this activity, and which enzymes are involved in the biosynthesis of this metabolite(s).

**Requirements:**
The postdoc candidate should have a strong background in bioinformatics and preferably experience in basic lab methods, such as DNA isolation and plant growth.

**The project would encompass:**
1) Sequencing and assembling the genome using Oxford Nanopore long reads and Dovetail Hi-C technologies.
2) Using RNA-sequencing data to construct and mine the co-expression network of Hedyotis to identify biosynthetic gene modules.
3) Integrate the metabolomic, co-expression and anti-tumor activity to identify the anti-tumor metabolite(s) and their biosynthetic pathways.

The project is an excellent opportunity to learn to use cutting-edge genomic and transcriptomic methods to get more into an applied, medicinal aspect of plant biology. Furthermore, NTU and Singapore are fantastic places to live and do research!

The position is initially for one year, with the possibility of an extension.
Nanyang Technological University, School of Biological Sciences, Singapore
Young and research-intensive, Nanyang Technological University (NTU, Singapore) is ranked 11th globally. It is also placed 1st among the world’s best young universities. NTU offers an excellent environment for research and training of scientific skills.

Why Singapore?
Singapore is a city-state with one of the highest standards of living in the world seeking to become an international hub for the biomedical and life sciences. Singapore is a vibrant and safe tropical city, with rich Asian heritage and modern style of living, an ideal gateway to explore Asia. With our good base of life sciences players, highly skilled and educated workforce, excellent communication systems, good industry infrastructure and a stable government, Singapore offers an exceptional professional and personal experience.

Please send your application to Asst. Prof. Marek Mutwil (Mutwil@ntu.edu.sg).