Academia Sinica

Keng-hui Lin
Academia Sinica

• The national research institute directly under president hall in the government hierarchy
• Located at the east corner of Taipei (Shuttle bus between NTU and AS)
• Both external and intramural funding
• 24 institutes and 8 research centers including physical science, life science, and social science
• Y.-T. Lee, who was a Nobel Chemistry Laureate and once a faculty member at U. of Chicago, was the past director
State-of-art core facilities
We also have an international summer intern program

https://tigp.sinica.edu.tw/pages/3127

Taiwan International Internship Program (1st May - 31st August)

The Taiwan International Internship Program is an intensive pre-doctoral research training program for overseas students that provides hands-on training and scientific experience at Academia Sinica and our partner universities.

Financial support:
- NTD 30,000/month stipend (before tax) and half of the cheapest route round-trip airfare of an economy class from the intern's hometown to Taipei.
- Note: If the interns are from the same location in the same batch, the reimbursement will be based on the lowest price (Max. NTD 15,000).
- On-campus accommodation will be arranged with affordable price.
- Opportunity to acquire scientific education, receive hands-on training, and learn the Chinese language.
My lab research interests

http://www.phys.sinica.edu.tw/~softlab

Mechanobiology in 3D

Mechanobiology in vivo
How cell senses the world?

Mechanobiology: how cells "touch" the external world and respond and perform mechanical actions such as maintaining their shape and migration.
3D Culture Matrix Simplified

Common 3D cell culture

Keep some 2D features and add some 3D features such as adhesions distribution in 3D.
Mechanical waves in wound healing process of zebrafish tailfin

How does zebrafish sense the position of amputation and adjust its regeneration rate accordingly?
Summer project: bridging in vitro and in vivo by studying the same cells in vitro and in vivo

- do primary culture of cells from zebrafish
- Recreate the in-vivo-like tracks
- Recapitulate the mechanical behaviors

Interested to join?

I am affiliated with National Taiwan University and National Central University. So you can apply through the exchange program of these two universities or through TIGP summer intern program.