



THE UNIVERSITY
of ADELAIDE



POSTGRADUATE RESEARCH OPPORTUNITIES IN SCIENCE

Contribute new solutions to global challenges by completing your postgraduate research in the Faculty of Sciences at the University of Adelaide.

THE UNIVERSITY OF ADELAIDE



Ranked in top 1% of universities worldwide



Associated with 5 Nobel prize winners



Produced 100 Rhodes Scholars



Go8
Member of Group of Eight

A reputation for excellence

Science at the University of Adelaide has a global reputation for excellence, with 100% of our research rated at, or above, world standard in the 2018 Excellence in Research Australia (ERA) evaluation.

Our expertise

The Faculty of Sciences brings together world-leading researchers with modern infrastructure to tackle national and international research priorities across four major research foci.

Physical sciences

Physics, chemistry and earth sciences.

Biological sciences

Molecular and biomedical science, ecology, environmental science, and evolutionary biology.

Animal and veterinary sciences

Animal genetics, health and production.

Agriculture, food and wine

Agricultural science, plant science, wine and food science.

Benefits of studying at Adelaide

- Opportunities for scholarships to support your study. For more information, visit: adelaide.edu.au/graduatecentre.

- Life in Adelaide. A vibrant and very affordable city, Adelaide consistently ranks as one of the world's most liveable*.
- Access to jointly awarded PhD programs with some of the world's top ranked universities.
- Opportunities to apply for national and international travel.
- Over 120 hours of free professional development in attributes that are sought after by industry.
- Opportunity to gain industry experience and networks through industry PhDs.
- Access to state of the art technology.
- Become a field expert and make a real impact and contribution to global challenges

*Adelaide ranked 10th in The Economist Liveability Survey 2018.

FOR FURTHER ENQUIRIES

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Field of research

Malaria Biology with the University of Adelaide's Research Centre for Infectious Diseases.

Malaria parasites remain one of the world's most significant killers, with children under five and pregnant women most at risk of disease.

Resistance to our best drugs is spreading through South-East Asia, resulting in poorer treatment outcomes for clinical cases of this deadly parasite.

There is an urgent need to identify novel drugs to partner with current first-line treatments to fill this looming treatment gap.

I am working with researchers in the Wilson and Abell labs at the University of Adelaide to develop new drug treatment approaches to cure malaria.

Research focus

There is an urgent need to identify novel drugs to develop as new antimalarial treatments. With the Wilson and Abell laboratories at the University of Adelaide, I have identified new drug chemotypes that kill malaria parasites. I have been working to identify their mechanism of action so that we can design more potent versions that could be used to cure people dying of malaria.

XINLI LIANG

2019 CSC visitor from Jiangxi University of Chinese Medicine

Why choose Adelaide as a city?

In my eyes, Adelaide is a very beautiful city with many beach fronts, good environment, amazing animals and happy community.

The city is very quiet, but it is also full of energy and of life. A major positive for me has been the education for kids here, the children here are all very happy, the kids like all kinds of outdoors activity, they get to do many creative things. This is of benefit to both adults and children and has helped my family develop together.

The pace of life here is neither too fast nor too slow. I also like the simple life and personal relationships that develop here, it has really helped me to get the best out of my time here and I am hoping I can continue working with groups at the University of Adelaide into the future.

Why research at the University of Adelaide?

The University of Adelaide is Australia's second oldest University and is ranked among the top universities in the world.

The University of Adelaide has trained five Nobel Laureates, the highest in Australia. While at the same time the University is a modern institution, with a wide range of cutting-edge research facilities and services available for researchers to make new discoveries. It is my pleasure to study here for one year.

Future plans

When I come back to China, I will continue working on anti-cancer drug screens and identification of drug mechanism of action against multidrug resistant tumors.

My studies here on antimalarial drug development differs in focus to my research in China, but the methods and research ideas are similar and I am learning new techniques in a different human disease system. Learning the approaches used by the collaborative research team during project management, training of student and development of publications has been of particular benefit.

University of Adelaide's Research Centre for Infectious Diseases

Infectious bacterial, viral and parasite diseases continue to cause massive global morbidity and mortality. The problem is growing every day due to the lack of effective vaccines, rapidly increasing rates of drug resistance, the emergence of new pathogens and the re-emergence of "old" pathogens in new guises.

The RCID is committed to dealing with infectious bacterial, viral and parasitic diseases in the 21st century using a two-pronged approach involving the development of cheaper and more effective vaccines, as well as engineering novel anti-infective drugs.

These challenges require a thorough understanding of the biology of disease and the complex interaction between the infectious pathogen and its host in order to develop the next generations of vaccines and drugs.

To learn more about our work, visit
biological.adelaide.edu.au/rcid