

ACCTERM Newsletter



Professor Yin Xiao

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Director's Message

Welcome to the seventh issue of the Australia-China Centre for Tissue Engineering and Regenerative Medicine's newsletter.

The purpose of this newsletter is to keep you informed of news and events happening within ACCTERM. I would like to take this opportunity to draw your attention to the ACCTERM website. It too is full of information on the program; including our collaborative partners, current projects and latest news.

It has been a busy but rewarding few months for the Centre. Planning is in full swing for the 4th ACCTERM Forum and the 16th Asian BioCeramics Symposium, both of which will take place later this year.

The collaborations within ACCTERM are generating fruitful research outcomes in terms of research grants, publications and student exchanges. I was delighted to learn of our success in securing funding from the Australian Research Council, the Australian Academy of Technology and Engineering and the IHBI Sponsorship Scheme.

More information on our recent grant success can be found inside.

Best wishes,

Professor Yin Xiao

Planning is underway for the 4th ACCTERM Research Forum

This year's forum will take place from 12-14 November at Sun Yat-sen University in Guangzhou, China. The forum will be held over three days which will allow sufficient time for presentations, group discussions and meetings with biotech companies. This forum will give researchers the opportunity to discuss a number of topics including: bilateral funding opportunities, industry partnerships and the direction of ACCTERM's research goals.

Research to Publication

A number of joint scientific journals have recently been published as a direct result of our collaborative research with our Chinese Partners.

- Li S, Shao J, Zhou Y, Friis T, Yao J, Shi B, Xiao Y (2016). The impact of Wnt signalling and hypoxia on osteogenic and cementogenic differentiation in human periodontal ligament cells. *Molecular Medical Reports*.
- Wu C, Xia L, Han P, Mao L, Wang J, Zhai D, Fang B, Chang J, Xiao Y (2016). Europium-containing mesoporous bioactive glass scaffolds for stimulating in vitro and in vivo osteogenesis. *ACS Applied Materials & Interfaces*, (8), pp. 11342-11354.

Electronic copies of all ACCTERM publications are available for download at [QUT ePRINTS](#).



5-6 December 2016
Queensland University of Technology
www.abc2016.com.au

16th Asian BioCeramics Symposium

In partnership with the Queensland University of Technology (QUT), ACCTERM are set to host ABC2016 later this year. The ABC symposium has been held annually in Asian countries since 2001, gathering scientists, engineers, manufacturer, dentists and surgeons from Asia and all over the world. This year's symposium will be held in Brisbane, Australia at QUT's Gardens Point Campus. We hope that this symposium will provide opportunities for researchers to present advanced research works in this attractive field and to have fruitful discussions on the future development of bioceramics.

REGISTRATION NOW OPEN!

Recent Grants Awarded

1. ARC Training Centre in Additive Biomanufacturing

It was an outstanding achievement to win one of the six ARC Industrial Transformation Training Centres nationally, securing \$3.72m in funding. The centre, which will be led by Professor Dietmar Hutmacher, aims to bring together leading researchers and industry partners to develop and translate key technology platforms for personalized treatments of challenging medical conditions. It's expected research undertaken at the training centre, will change the fields of science, health and biotechnology and make Australia a world leader in the 3D-printing of body parts.

2. The Australian Academy of Technology and Engineering (ATSE) Priming Grant

Professor Yin Xiao and Professor Ross Crawford in partnership with Asia Biomaterials Co. Ltd. (ABM) were awarded \$7,000 in funding by the ATSE. The priming grant supports and encourages Australian researchers to engage with international small-to-medium enterprises. Professor Xiao and Professor Crawford will travel to Wuhan later this year to meet with ABM partners to participate in developmental meetings and discuss the commercialization and clinical translation of bone biomaterials.

3. IHBI Sponsorship Scheme

ACCTERM's application for sponsorship for the upcoming 16th Asian BioCeramics Symposium was successful. It is anticipated that the \$2,000 provided by IHBI will cover the cost of travel for two plenary speakers (one domestic and one international) to attend the symposium.

Recent grants submitted – Good luck to all involved

Scheme: Ramaciotti Health Investment Grant

Researcher: Yinghong Zhou

Title: Multifunctional and tailor-made bioscaffolds to repair and regenerate periodontal tissue

Amount: \$299,911

Scheme: The Ian Potter Foundation Conference Grant

Researcher: Yin Xiao

Title: Financial support for three keynote speakers to attend the 16th Asian BioCeramics Symposium

Amount: \$9,000

First Fast-Track PhD Student

ACCTERM's PhD student, Dr Lan Xiao gave her final presentation last month. Lan was the first fast-track PhD student between QUT and Wuhan University. Lan's thesis is titled "Dissecting the role of Sphingosine 1-Phosphate — Sphingosine 1-Phosphate receptor in inflammatory bone remodeling". Lan intends to stay in Australia during the external thesis examination and she will continue her research on osteoimmunology after graduation. Here is what Lan had to say about her experience. "I'd like to express my gratitude to ACCTERM, for giving me such a great opportunity to study as a joint PhD candidate between QUT and Wuhan University".



Pictured L to R: Dr Lan Xiao and Prof Yin Xiao

Visiting Fellow Review—A/Prof Jing Wang

In February 2016, I was lucky enough to join ACCTERM as a visiting fellow for a six-month period. Researching on the frontier project allowed me to enhance my skill base and scientific thinking. In addition, I am really impressed with Professor Yin Xiao and the creative young researchers within ACCTERM. Working with them enriched my knowledge in this interdisciplinary field. Our project will advance the current understanding of the macrophage-centred approach in regenerative medicine and provide new insights into designing criteria of biomaterials that leads to promotion of tissue regeneration.

I believe this visiting experience will have a very positive influence on both my personal and professional development. Furthermore, I hope my visit is just the beginning of further collaborative research between QUT and the East-China University of Science and Technology.

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