

# ACCTERM Newsletter



Professor Yin Xiao

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## Director's Message

Welcome to the fourth 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.

We are busily preparing for our third ACCTERM Research Forum. Don't forget to send your abstracts and biographies for inclusion in the Forum's program if you haven't already done so! It was great to welcome so many students from China as part of their vacation study tour program and to show them the great facilities on offer at the Institute of Health and Biomedical Innovation where ACCTERM is based. It is always encouraging to see strong interest from international students. Finally, I extend my congratulations to Dr Indira Prasadam on her recent success.

Best wishes,  
Professor Yin Xiao

## Planning is underway for the 2015 ACCTERM Research Forum

The forum will take place between the 5-7 November in both Brisbane and Surfers Paradise. A strategic planning meeting will be held at QUT, the morning of Thursday 5<sup>th</sup>. This meeting will be attended by a number of senior staff and it will allow for the opportunity to discuss the direction of ACCTERM's research goals. Following this meeting, all attendees will travel to the Gold Coast where the research forum will continue for two days. More information can be found on the dedicated forum website. <http://www.accterm-forum.qut.edu.au/>

## 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.

- Chen Z, Yuen J, Crawford J, Wu C, Xiao Y. (2015). The effect of osteoimmunomodulation on the osteogenic effects of cobalt incorporated  $\beta$ -tricalcium phosphate. *Biomaterials*, (61), pp.126-138.
- Wu C, Xia L, Han P, Xu M, Fang B, Wang J, Chang J and Xiao Y. (2015). Graphene-oxide -modified  $\beta$ -tricalcium phosphate bioceramics stimulate *in vitro* and *in vivo* osteogenesis. *Carbon*, (93), pp.116-129
- Zhou Y, Fan W, Prasadam I, Crawford R and Xiao Y. (2015). Implantation of osteogenic differentiated donor mesenchymal stem cells causes recruitment of host cells. *Journal of Tissue Engineering and Regenerative Medicine*, 9(2), pp. 118-126.
- An S, Huang X, Gao Y, Ling J, Huang Y and Xiao Y. (2015). FGF-2 induces the proliferation of human periodontal ligament cells and modulates their osteoblastic phenotype by affecting Runx2 expression in the presence and absence of osteogenic inducers. *International Journal of Molecular Medicine*, (46), pp.705-711.

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



Pictured: Prof Yin Xiao and Mr Lixin Song

### Professor Xiao new Adjunct Professor at SIC-CAS

During Prof Yin Xiao's recent trip to China, the Shanghai Institute of Ceramics, Chinese Academy of Science (SIC-CAS) held an award ceremony and appointed Prof Xiao as an Adjunct Professor. Mr Lixin Song (Director of SIC) recalled the long-term fruitful collaborations between SIC and QUT. In the past five years, the research collaboration between QUT and the SIC-CAS has driven over 30 joint publications and secured one Australian Research Council (ARC) Discovery Project grant and one Queensland-Chinese Academy of Sciences (Q-CAS) Collaborative Science Fund.

## International Visiting Scholars



28 undergraduate and postgraduate students from Peking University , Sun-Yat Sen University and Nanjing Medical University visited IHBI on 27<sup>th</sup> of August, 2015 as part of their vacation study tour program. An introduction and information session was conducted by Prof Xiao followed by a laboratory visit. Prof Xiao explained the PhD application process, discussed the research strengths and interests of IHBI and, outlined some of the scholarships available at QUT. Previous Chinese PhD students shared the experiences of their enjoyable journey at IHBI during their PhD study to the students. All students were impressed by the facilities and areas of research on offer at IHBI and showed strong interest in pursuing post-graduate studies at IHBI.

## Recent Travel Award

### 2015 Australia China Young Scientist Exchange Program



Dr Indira Prasadam

We extend our congratulations to Dr Prasadam, a post-doctoral research fellow here at QUT, who has been successfully selected for the Australian Young Scientist Exchange Program, 1-13 November 2015. During her visit to China, Dr Prasadam will visit various Chinese Institutions, which will allow her to progress personal linkages and collaborative opportunities along with strengthening Australia-China science and technology linkages.

## **QUT establishes joint lab with WHU**

QUT Deputy Vice-Chancellor Professor Scott Sheppard recently signed a memorandum of understanding with Wuhan University (WHU) which will see the establishment of the QUT – WHU Joint Laboratory in Regenerative Medicine. The joint lab will focus on the clinical translation of regenerative medicine in dentistry and maxillofacial surgery while strengthening our partnership with China. Wuhan the capital city of Hubei province is the most populous city in central China and is recognized as the political, economic, financial, cultural, educational, and transportation centre of central China.

ACCTERM was pivotal in facilitating the establishment of the joint lab between the two universities. QUT is already a partner with a number of Chinese universities thanks to the efforts of our centre. This recent agreement further cements ACCTERM as a hub for international research collaborations. The signing ceremony took place during the Hubei-Queensland Cooperation Projects Forum on Friday 7<sup>th</sup> August. Hosted by Trade and Investment Queensland and the Department of Commerce (Hubei Province), The Forum presented the opportunity for over 60 Chinese companies to exchange innovative ideas and partnership proposals with Queensland businesses.



Pictured among Chinese delegates including Li Hongzhong (Governor-in-Chief of Hubei Province) are Professor Yin Xiao (Director of ACCTERM), Professor Scott Sheppard (QUT DVC), and Hon Jackie Trad (Deputy Premier of Queensland) at the signing ceremony.

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