



MEDIA RELEASE

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Cell colour technology shortlisted for Eureka honours

Sydney researchers Professor Ewa Goldys and Dr Martin Gosnell have been selected as finalists in the prestigious Australian Museum Eureka Prizes, for their work in developing technology that enables colour to be used as a uniquely powerful diagnostic tool in medicine.

Selected in the award category '2016 ANSTO Eureka Prize for Innovative Use of Technology', Goldys and Gosnell use modern day microscopes and powerful computer analysis to explore the subtle colour differentiations of cells and tissue, down to a molecular level.

"With our pioneering hyperspectral imaging technique we are able to unveil the biomolecular composition of cells and their nanoscale contents," said Ewa Goldys, Deputy Director of the ARC Centre of Excellence for Nanoscale BioPhotonics (CNBP) and Professor at Macquarie University.

"This lets us distinguish between healthy and diseased cells in areas as diverse as embryology, neurodegeneration, cancer and diabetes. Key is the great potential of this technology to impact positively on lives - supporting clinicians in making improved diagnosis and health decisions for patients."

Noting that it was a pleasure and a privilege to be nominated as a Eureka finalist, Goldys concluded, "Our innovative methodology is letting us probe the very limits of our understanding of life at the molecular level. It's important that we share these amazing discoveries with the public and the community at large - the Eureka Prizes are the perfect platform to help support us in these efforts."

Dr Martin Gosnell, CNBP research affiliate and Managing Director at Quantitative Pty Ltd was equally pleased by the Eureka nomination.

"I'm absolutely delighted that our research has been recognised at this level. By using the colour of light from cells and tissues, we are pushing the very frontiers of molecular exploration and measurement."

“Our high-powered data analysis and imaging expertise is truly opening up new windows into the body.”

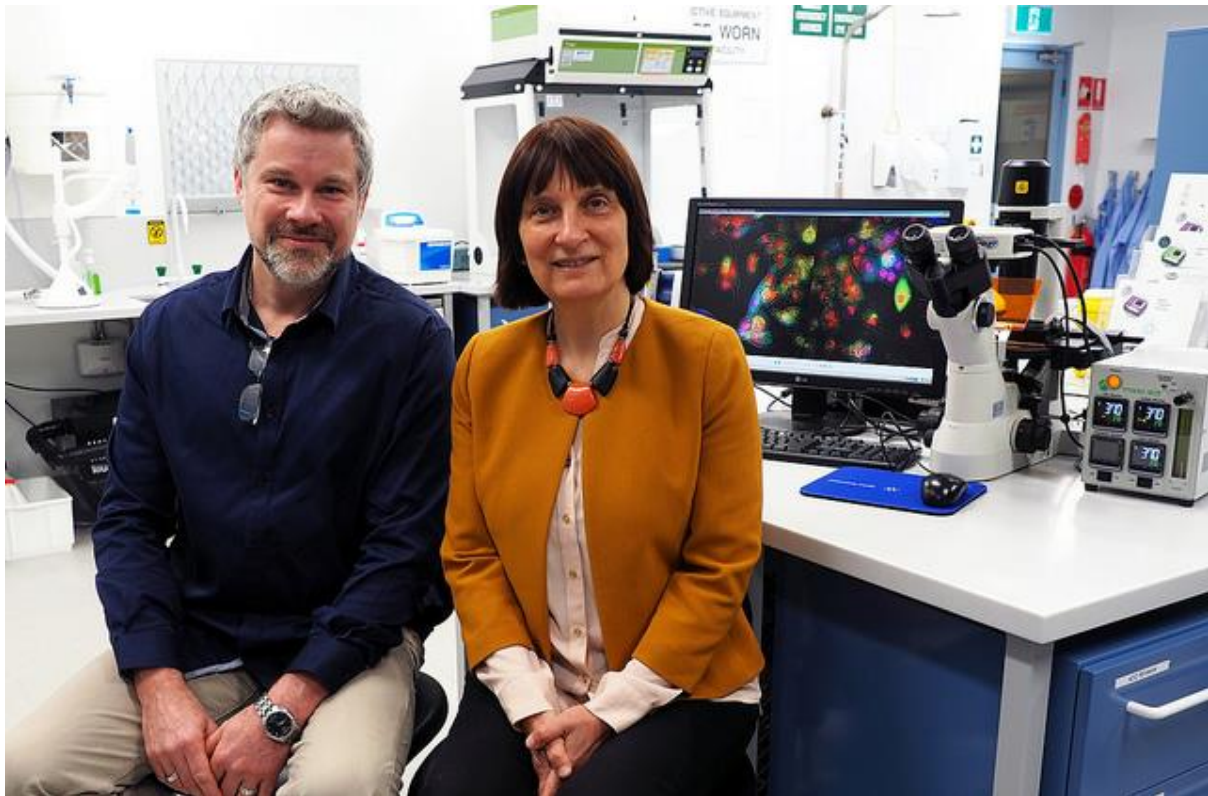
The Eureka Prizes are presented by the Australian Museum and reward excellence in research and innovation, science communication and journalism, leadership and school science.

Prize winners will be announced at an Awards Dinner at Sydney Town Hall on Wednesday 31 August 2016.

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IMAGE AVAILABLE:

Dr Martin Gosnell (Quantitative Pty Ltd) and Professor Ewa Goldys (CNBP) <http://flic.kr/p/Kbyr8i>



CNBP Deputy Director, Prof. Ewa Goldys <https://flic.kr/p/F7XrPh>

ABOUT:

The Centre for Nanoscale BioPhotonics (CNBP) is an Australian Research Council Centre of Excellence led by the University of Adelaide, with research focussed nodes also at Macquarie University and RMIT University. A \$40m initiative, the CNBP is focused on developing new light-based imaging and sensing tools, that can measure the inner workings of cells, in the living body. <http://cnbp.org.au/>

Quantitative is a bioinformatics and engineering company undertaking a range of activities including the development of cellular diagnostic scales; combining and condensing information content of large databases; information and feature extraction of image, spectral, spatial, temporal data sets, and visualisation and projection of complex datasets using advanced customised targeted projection pursuit methods and the development and manufacture of specialised scientific equipment. <http://www.quantitative.net.au/>

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