



MEDIA RELEASE

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Cell colour technology wins Eureka prize

Ewa Goldys, Deputy Director of the ARC Centre of Excellence for Nanoscale BioPhotonics (CNBP) and Professor at Macquarie University, together with Dr Martin Gosnell, CNBP research affiliate and Managing Director at Quantitative Pty Ltd have won the ANSTO 'Innovative Use of Technology' award at the 2016 Australian Museum Eureka Prizes.

They were recognised for their innovative colour focused research, able to distinguish between healthy and diseased cells, in areas as diverse as embryology, neurodegeneration, cancer and diabetes.

"We are absolutely thrilled to be awarded this prize out of such a high-quality field of researchers and scientists," said Prof Goldys following the Eureka announcement.

"The hyperspectral imaging technique pioneered by our team lets us successfully extract specific biomolecular information hidden in fluorescent colour signatures of living cells and tissues."

Goldys explained, that with this research, a new window into the body had been opened.

"Through the approach we are taking, incorporating leading-edge microscopes, 'big data' and the high processing speeds of modern computers, we are able to noninvasively and rapidly detect major health conditions, across a wide variety of areas."

The future of the research, Goldys believes is one of high-impact and significant possibility.

"These colour-based cellular and molecular measurements have the potential to be done in-vivo (in the body), expediting the potential for healthcare decisions based on the health needs of the individual and their unique biological characteristics."

Concluded Goldys, "The really exciting thing is that while we are probing the very limits of our understanding of life at the molecular level, this technology also yields real world translational outcomes - outcomes that will support clinicians in making improved diagnosis and health decisions for patients."

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 were announced at an Awards Dinner at Sydney Town Hall.

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Professor Ewa Goldys (CNBP and Macquarie University) and Dr Martin Gosnell (Quantitative) with awards.

EUREKA PRIZES INFORMATION:

<http://australianmuseum.net.au/eureka>

IMAGE and B-ROLL VIDEO AVAILABLE:

Professor Ewa Goldys and Dr Martin Gosnell with awards (landscape) <https://flic.kr/p/KNALRZ>
Professor Ewa Goldys and Dr Martin Gosnell with awards (portrait) <https://flic.kr/p/LKvCsM>
Dr Martin Gosnell (Quantitative Pty Ltd) and Professor Ewa Goldys (CNBP) <http://flic.kr/p/Kbyr8i>
<https://www.youtube.com/watch?v=JGzNK1oLBno&feature=youtu.be>

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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