Title of Invention

(Below is limited to 1-page only; be careful not to disclose vital technology content. Please delete these words when the document is finished)

PI: Prof. Yuan Luo Institute of Medical Device and Imaging, National Taiwan University

Experience:

Emperione								
學 校	名	稱	學	位	起	訖	年	月
						A STATE OF THE STA		
College Sciences, University		Optical ona	P	h. D		2004/0)8~200)8/09
College of Optical Sciences, University of Arizona			N	1.S.	2004/08~2007/06			

Affiliation	Title	Period	
Current Position			
Institute of Medical Device and Imaging	Associate Professor	2015/08~present	
曾任:			
Molecular Imaging Center	Division Chief	2012/01~2017/07	
Opto-electronic Biomedical Research Center	Assistant Professor	2011/08~2015/07	
Mechanical Engineering, MIT, USA	Postdoctoral Associate	2008/12~2011/07	

This information herein is intended for potential license of NTU technology only. Other usage of all or portion of this information in whatever form or means is strictly prohibited. Kindly contact us and we will help to achieve your goal the best we can.

Market Needs:

Our technique can provide the quantitative phase information of cell for biomedicine study.

Our Technology:

We design a new illumination method to modulate the optical field of cell to generate the phase contrast images. The captured phase contrast image data can be utilized to reconstruct the quantitative information of optical path length through cell sample.

Strength:

Past technique needs 24 frames for quantitative phase image, our technique only require 4 frames for reconstruction so as to provide better efficiency and robustness.

Competing Products:

FourierScopeTM Clearbridge BioPhotonics Pte Ltd

Intellectual Properties:

Based on our algorithm with a gradient pattern in Fourier plane of illumination unit in a microscopic system, the quantitative phase information of cell can be reconstructed.

Contact (do not need to fill out):

Center for Industry-Academia Cooperation, NTU Tel: 02-3366-9945, E-mail: ntuciac@ntu.edu.tw

This information herein is intended for potential license of NTU technology only. Other usage of all or portion of this information in whatever form or means is strictly prohibited. Kindly contact us and we will help to achieve your goal the best we can.