

EXPERT'S PROFILE

Name of Grantee	MARIA CYNTHIA GOH, Ph.D.
Area of Expertise	Medical Diagnostics, Physical Chemistry, Nanotechnology, Functional Foods, Technopreneurship
Inclusive Dates of Contract as BSP Awardee	Short-term Program Phase 1: Dec. 1-15, 2017 Phase 2: May 1-30, 2018 Phase 3: Aug. 20-30, 2018
Host Institutions	University of the Philippines Visayas



EDUCATIONAL BACKGROUND

Doctor of Philosophy, University of California, Los Angeles, 1985
Bachelor of Science in Chemistry, University of the Philippines, *cum laude*, 1980

PROFESSIONAL AND RESEARCH EXPERIENCE

- 2016 – Present **Academic Director**
Banting and Best Centre for Innovation and Entrepreneurship (BBCIE), University of Toronto
- 2013 – Present **Director**
Impact Centre, University of Toronto
- 2012 – Present **Professor**
Department of Material Science and Engineering, University of Toronto
- 2011 – Present **Professor**
Munk School of Global Affairs, University of Toronto
- 2011 – 2016 **Member, Board of Directors**
Science Rendezvous
- 2010 – present **Chair, Board of Directors**
Sciventions Inc.
- 2010– 2013 **Director**
Institute for Optical Sciences, University of Toronto
- 2010 – 2016 **Member, Board of Directors**
Pueblo Science
- 2009-2010 **Member, Board of Directors**
Lumentra Inc
- 2008-2011 **Member, Board of Directors**
Dalenyi BioSurfaces
- 2007-2011 **Chair, Scientific Advisory**
Vive Crop Protection (formerly Vive Nano)
- 2006-2007 **Vice President for Research**
Northern NanoTechnologies

- 2006-2007 **Entrepreneur-in Residence**
MaRS Discovery District
- 2005-2010 **Associate Director**
Institute for Optical Sciences,
University of Toronto
- 2004 – Present **Professor**
Institute of Medical Sciences,
University of Toronto
- 2004 – Present **Chair, Scientific Advisory Board**
Axela Biosensors Inc
- 2003 – Present **Professor**
Department of Chemistry,
University of Toronto
- 2001 – 2004 **Chief Scientific Officer**
Axela Biosensors Inc
- 1998 **Visiting Professor**
Department of Physics, Universite Joseph Fourier, Grenoble, France
- 1998 **Visiting Scientist**
Condensed Matter Physics, CEA, Grenoble France
- 1998 **Visiting Professor**
Institute of Chemistry, University of the Philippines-Diliman
- 1995-2003 **Associate Professor**
Department of Chemistry,
University of Toronto
- 1995-1997 **Associate Chair, Graduate Studies**
Department of Chemistry,
University of Toronto
- 1990-1995 **Assistant Professor**
Department of Chemistry,
University of Toronto
- 1986 **Adjunct Professor**
Department of Chemistry,
University of Toronto
- 1981-1985 **Research Assistant**
Department of Chemistry,
University of California, Los Angeles
- 1981-1982 **Teaching Assistant**
Department of Chemistry,
University of California, Los Angeles
- 1980-1981 **Teaching Assistant**
Department of Chemistry,
Cornell University

TO BE ACCOMPLISHED AS A BSP AWARDEE:

1. Develop research proposals with UP Visayas faculty and researchers on topics relating to mitigating micronutrient deficiency in the country and multi-analyte detection of environmental xenobiotics affecting maternal and child health;
2. Serve as a consultant/mentor to UP Visayas faculty and students on projects relating to photocatalysis for health and nanotechnology for health;
3. Serve as a co-adviser to BS Chemistry and MS Chemistry thesis students of UP Visayas on their projects with topics on nanotechnology for the health sciences;

4. Write a review paper with Dr. Concepcion Ponce on topics relating to extraction and characterization of biomedical grade collagen and hydroxyapatite from fishwastes;
5. Conduct seminars to UPV faculty, researchers and students on the following topics:
 - a. importance of commercializing health and care technologies;
 - b. nanotechnology for health sciences;
 - c. photocatalysis for removal and degradation of common hospital pathogens, air and water pollutants;
 - d. health-related technologies and start-ups in various universities in Manila;
6. Conduct a series of technopreneurship workshops to enable health scientists, inventors and innovators convert their academic outputs to products and services that will benefit the society;
7. Train youth in remote communities to install and maintain solar LED lighting;
8. Train high school teachers on creating hands-on science activities using low-cost and locally available resources.