

EXPERT'S PROFILE

Name of Grantee: ROMULO J. DE CASTRO, PhD
Area of Expertise: Bioinformatics, Neuroscience and Immunology
Inclusive Dates of Contract: Short-term Program
as BSP Awardee: August 18 to November 15, 2016 (90 days)
Host Institution: Department of Biochemistry and Molecular Biology, College of Medicine, UP Manila



EDUCATIONAL BACKGROUND

Biomedical Informatics Fellowship, National Library of Medicine (NIH), 2012
Postdoc in Neurobiology, California Institute of Technology, The Burnham Institute, 2005
PhD in Human Biological Chemistry & Genetics, University of Texas Medical Branch, 1999
BS in Molecular Biology & Biotechnology, University of the Philippines, Manila, 1991, *Cum Laude*

PROFESSIONAL EXPERIENCE

2012 – Present **3R Biosystems, San Diego CA**
Technology Lead

2010 – 2014 **Charles R. Drew University of Medicine and Science, Los Angeles CA**
Director of Translational Science Navigation

2010 **Pathway Genomics Corporation, San Diego CA**
Scientific Consultant

2005 – 2010 **Immune Epitope Database, La Jolla Institute for Allergy & Immunology, San Diego CA**
Senior Scientific Curator

2007 – 2009 **Autism Speaks, Los Angeles CA**
Assistant Director of Research (Biology)

2001 – 2004 **The Burnham Institute, La Jolla CA**
Postdoctoral Research Associate

1999 – 2001 **California Institute of Technology, Pasadena CA**
Postdoctoral Scholar in Biology

1992 – 1999 **University of Texas Medical Branch, Galveston TX**
Research and Teaching Assistant in Human Biological Chemistry & Genetics

TO BE ACCOMPLISHED AS BSP AWARDEE

1. Assist the researchers of Department of Biochemistry and Molecular Biology on the project “Health Benefits and Safety of Combined Formulation of the Sampung Halamang Gamot (10HG)” through the following activities:
 - a. Perform app support activities including user support and troubleshooting;
 - b. Assist in evaluation of app utilization (if any);
 - c. Redevelopment of app if new requirements arise (if any).
2. Assist the researchers of the Department of Biochemistry and Molecular Biology on the project “Philippine Health Research on Metabolic Responses to Food Supplements and Diseases” (PhilMetab):
 - a. Define requirements and create the PhilMetab biological data repository (BDR) app database schema;
 - b. Program the database and application user interface;
 - c. Test the application prototype and reprogram the app (if needed);
 - d. Finalize/Launch the application.
 - e. Give lectures in health and research informatics at the host and collaborating institutions.