

EXPERT'S PROFILE

Name of Grantee : ROMULO J. DE CASTRO, Ph.D.
Area of Expertise : Biochemistry, Genetics, Neuroscience, Immunology, Biomedical Informatics

Inclusive Dates of Contract as BSP Awardee : Short-Term Program
March 22-June 20, 2018

Host Institutions : University of the Philippines – Manila,
University of the Philippines – Los Baños



EDUCATIONAL BACKGROUND

- **Biomedical Informatics Fellow** National Library of Medicine, 2012
- **Clinical Trials Administration**, Univ of California San Diego Extension, 2005
- **Postdoc**, California Institute of Technology (aka Caltech), and The Burnham Institute (now Sanford-Burnham Medical Research Institute), 1999-2004
- **Ph.D. Human Biological Chemistry & Genetics**, Univ of Texas Medical Branch, 1999
- **B.S. Molecular Biology & Biotechnology** (cum laude), Univ of the Philippines, Diliman, 1991

PROFESSIONAL EXPERIENCE

- 2012-Present **Technology Lead – Cancer Immunoinformatics**
3R Biosystems (3RB, San Diego, CA)
- 2017-2018 **Biomedical Informatics Consultant**
International Atomic Energy Agency (IAEA), Vienna, Austria
- 2010-2014 **Director of Translational Science Navigation**
Charles R. Drew University of Medicine and Science (CDU),
Los Angeles, CA
- 2010 **Genetic/Genomic Database Consultant**
Pathway Genomics Corporation, San Diego, CA
- 2005-2010 **Scientific Curator, Immune Epitope Database (IEDB)**
Immune Epitope Database, La Jolla Institute for Immunology,
San Diego, CA
- 2007-2009 **Assistant Director of Research (Biology)**
Autism Speaks, Los Angeles, CA

TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Assist the MD-PhD students of the Department of Biochemistry and Molecular Biology, College of Medicine, UP Manila in the development of REDCap data collection tools for the following PCHRD-funded projects:
 - a. Effects of Hapten-Labelled Polymerized Oligopeptides on Fibrin Clot Formation and Degradation in Quiescent Human Plasma
 - b. Effects of Thermal Treatment and Selected Irreversibly Binding Small Molecules on Human Complement Activity
 - c. Development and Characterization of Microbe-Binding Peptides for Neutralization and Screening for Microbial Contaminants
2. Lead the implementation of REDCap in the collaboration between the Department of Biochemistry and Molecular Biology, College of Medicine, UP Manila and College of Veterinary Medicine, UP Los Baños on informatics tools.
3. Conduct informatics lectures and workshops on REDCap utilization at UP Manila, UP Los Baños and other institutions as needed.