

## EXPERT'S PROFILE

**Name of grantee:** **LOWELA L. SIAROT, PhD**  
**Area of expertise:** Molecular Biology and Biotechnology, Virology,  
Drug Discovery  
**Inclusive Date of Contract** Short-Term Program  
**as BSP Awardee:** 09 January – 08 April 2017 (90 days)  
**Host Institution:** University of the Philippines Mindanao  
**E-mail Address:** lowela\_siarot@yahoo.com



## EDUCATIONAL BACKGROUND

**Ph.D. in Biotechnology**, 2016, The University of Tokyo, Japan

**MS in Biotechnology**, 2013, The University of Tokyo, Japan

**BS in Biology**, 2007, University of the Philippines Mindanao

## WORK EXPERIENCES

Apr 2016 – Jul 2016 **Institute of Physical and Chemical Research (RIKEN), Saitama, Japan**  
Research Support Employee

Apr 2013 – Mar 2016 **Institute of Physical and Chemical Research (RIKEN), Saitama, Japan**  
Junior Research Associate

Feb 2008 – Nov 2009 **University of the Philippines Mindanao, Davao City, Philippines**  
Biotechnology Research Associate I

## TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Establish a molecular detection protocol by Reverse transcription polymerase chain reaction (RT-PCR) for the research project, "Molecular Biology of Porcine Rotaviruses and Drivers of Infection"
2. Conduct a scoping study on diagnostics and drug development for viral diseases
3. Develop an Outcome-Based Education (OBE) syllabus for virology courses of UP Mindanao's BS Biology program
4. Conduct seminars/ lectures on Virology topics:
  - a. Viral replication and pathogenesis
  - b. Viral-Host protein interactions as antiviral targets
  - c. Basic principles of drug discovery and development
  - d. New and emerging viruses