

EXPERT'S PROFILE

Name of Grantee: **DORALYN S. DALISAY, PhD**
Area of Expertise: Microbiology and Natural Products
Chemistry
Inclusive Dates of Contract as BSP Awardee: Short-term Program
September 1 to November 29, 2015
(90 days)
Host Institution: University of San Agustin, Iloilo City
West Visayas State University, Iloilo City

EDUCATIONAL BACKGROUND

PhD in Microbiology and Immunology, University of New South Wales, Sydney, Australia, 2004
MS in Biology, University of the Philippines, Visayas, Miag-ao, Philippines 1999
BS in Pharmacy, University of San Agustin, Iloilo City, Philippines, 1999, *Cum Laude*

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

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|---|--------------|
| American Chemical Society | 2006-present |
| American Society for Microbiology | 2006-present |
| American Association for the Advancement of Science | 2006-present |
| American Society for Pharmacognosy | 2006-present |
| Phytochemical Society of North America | 2013-present |
| WSU Association for Faculty Women, | 2012-present |

US PATENTS

Smith, A. B. III, Liu Z, Hogan A. M., **Dalisay, D. S.**, Molinski, T. F. "Hemiphorboxazole A Derivatives and Methods of their use. US Patent number #20130030,0

Smith, A. B. III, Liu Z, Hogan A. M., **Dalisay, D. S.**, Molinski, T. F. "New hemiphorboxazole A compounds, useful for treating a fungal infection, which is *Candida albicans*, or cancer, which is colon cancer or breast cancer". Patent Number(s): WO2011011665-A1; US2013030027-A1

PROFESSIONAL AND RESEARCH EXPERIENCE

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| 2012 – present | Assistant Research Professor, Institute of Biological Chemistry, Washington State University, Pullman, WA, USA. |
| 2009 – 2012 | Research Associate IV, Natural Products Laboratory, Departments of Chemistry and Earth and Ocean Sciences, University of British Columbia, Vancouver, BC, Canada. |

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| 2005 - 2009 | Postdoctoral Scholar, Natural Products Drug Discovery, Department of Chemistry University of California San Diego, La Jolla, California, USA. |
| 2001– 2004 | Teaching Assistant: School of Biotechnology and Bio molecular Sciences University of New South Wales, Sydney, Australia. |
| 1993–2000 | Lecturer: College of Pharmacy and Medical Technology, University of San Agustin, Iloilo Philippines. |

TO BE ACCOMPLISHED AS BS AWARDEE:

1. Establish natural products research program using marine sediment-derived bacteria as source organisms by:
 - a. Providing lectures on:
 - i. “Marine actinomycete diversity and bioactive metabolites isolation, and natural product discovery”; and
 - ii. “Mass Spectrometry-based metabolomics as a new platform for natural productsdrug discovery
 - b. Conducting workshop on “Diversity and Bioprospecting of marine-sediment derived actinomycete” specifically on:
 - i. Marine sediment collection and sample preparation;
 - ii. Isolation of actinomycete for bioactive metabolite production;
 - iii. Cultivation of actinomycete for bioactive metabolite production; and
 - iv. Bioactivity assays as guide for isolating bioactive metabolites;
2. Conduct lectures and workshop on “Grantmanship: The Art of Writing Winning Research Proposal” to the faculty members of Science, Technology, Engineering and Math (STEM discipline) in USA and DOST Region 6 stakeholders;
3. Conduct lectures on microbiology and pharmacognosy courses to junior and senior undergraduate pharmacy and medical technology students;
4. Conduct lectures and workshop on the following topics:
 - a. “Drug Discovery and Development: From Bench to Clinic”;
 - b. “Effective Scientific Writing – Building Proposals”;
 - c. “Effective Scientific Writing – Publishing Research.”