UNIVERSITY OF THE PHILIPPINES BAGUIO
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CURRICULUM VITAE

Prof. Ronie J. Calugay, PhD

Email address: **rjcalugay@up.edu.ph**
Contact Number: **+63 908 885-1244**
Research Interest/Discipline: **Bioluminescent bacteria, Microbiology, Bioinformatics, Biotechnology**

Educational Background

Duration:	October 2006 - Feb 2007
Degree:	Postdoctorate
University:	University of California
Dissertation or Thesis Title:	
Awards and Distinction Received:	

Duration:	2006
Degree:	PhD in Biotechnology and Life Sciences
University:	Tokyo University of Agriculture and Technology
Dissertation or Thesis Title:	
Awards and Distinction Received:	

Duration:	1997
Degree:	Master of Science in Microbiology
University:	University of the Philippines, Diliman
Dissertation or Thesis Title:	
Awards and Distinction Received:	

Duration:	1985
Degree:	Bachelor of Science in Biology
University:	University of the Philippines, Baguio
Dissertation or Thesis Title:	
Awards and Distinction Received:	

Work Experience

Duration:	2015-present
Position/Designation:	Assistant Professor 5
Employer:	University of the Philippines Baguio
Duration:	2010-2015
Position/Designation:	Assistant Professor
Employer:	Ateneo de Manila University
Duration:	1990-2000
Position/Designation:	University Research Associate
Employer:	University of the Philippines Diliman
Duration:	1989-1990
Position/Designation:	Science Research Analyst
Employer:	University of the Philippines Baguio

Other Designations/Committees while Affiliated with UP Baguio

Duration	**Designation/ Committee**
August 2021-Present	Chair, Department Academic Program Committee (DAPC)
August 2020- July 2021	Member, Research Ethics Committee
August 2020- July 2021	Member, Kaagapay
August 2019- July 2020	Chair, College of Science Lecture Series Committee
August 2017- Present	Member, Ti Similia
August 2016- July 2018	Member, Department Academic Program Committee (DAPC)

Research Projects/ Research Involvements/Patents

Duration	**Research Project/Patent Details**
August 2017 – July 2018	Title: Discovering Bioluminescent Bacteria and Microalgae Associated with Jellyfishes as Sources of Quorum Quenching Molecules Position: Project Leader Funding agency: Faculty Grant
August 2016 – July 2017	Title: Isolation of Magnetotactic Bacteria as Biosorbent Agent of Heavy Metals from Mine Tailings in Antamok, Benguet, Philippines Position: Project Leader Funding agency: Cordillera Research Center
November 2015 – October 2016	Title: Antibacterial Screening of Herbal Extracts from Terrestrial Plants from Selected Sites in the Philippines Position: Project Leader Funding agency: Department of Science and Technology (DOST)

List of Publications (Books, Journals, Proceedings, etc.)

Articles

1. Ronie J. Calugay, Aurora Ines J. Aguilar, Jerico R. Liwag, Paula S. Ramos, and Ofelia D. Giron. Robust cadmium removal and tolerance by a magnetotactic bacterium isolated from the sediment of an open-pit mine tailings lake. **Philippine Science Letters. (2018)** 11: 13-17.
2. Andrianne F. Langaoen,Vernon, Josh V. Manzano,Enrico Miguel R. Requilman, Joselito M. Tabardillo Mary Beth B. Maningas, Ronie J. Calugay. Antibiotic-resistant bioluminescent vibrios from Philippine aquacultured *Chanos chanos* and *Oreochromis niloticus*. **Aquaculture, Aquarium, Conservation & Legislation AACL Bioflux. (2018)** 11(2):505-515.
3. Roja Guia Angeles-Gumban, Mudjekeewis D. Santos, Minerva Ventolero, Janice A. Ragaza**,** Ronie J. Calugay. Quorum quenching activity of lysates from bioluminescent bacteria isolated from selected Philippine marine and freshwater organisms. **Aquaculture, Aquarium, Conservation & Legislation AACL Bioflux. (2017)** 10(3): 525-533.
4. Analiza J. Molina, Rhea G. Abisado, Ronie J. Calugay**.** Bioluminescent *Vibrio* spp. with antibacterial activity against the nosocomial pathogens *Staphylococcus aureus* and *Klebsiella pneumoniae.* **Aquaculture, Aquarium, Conservation & Legislation AACL Bioflux. (2016)** 9(2):185-194.
5. Maureen Anne A. Naguit, Kirk C. Plata, Rhea G. Abisado and Ronie J. Calugay. Evidence of bacterial bioluminescence in a Philippine octopus host. **Aquaculture, Aquarium, Conservation & Legislation AACL Bioflux (2015)** 7 (6): 497-507.
6. Ronie J. Calugay, Hideaki Miyashita, Yoshiko Okamura, and Tadashi Matsunaga, Siderophore production by the magnetic bacterium *Magnetospirillum magneticum* AMB-1, **FEMS Microbiol. Lett. 218 (2003) 371-375**.
7. Ronie J. Calugay, Yoshiko Okamura, Aris Tri Wahyudi, Haruko Takeyama, and Tadashi Matsunaga, Siderophore production of a periplasmic transport binding protein kinase gene defective mutant of *Magnetospirillum magneticum* AMB-1, **Biochem. Biophys. Res. Commun. 323 (2004) 852-857.**
8. Ronie J. Calugay, Haruko Takeyama, Daikichi Mukoyama, Yorikane Fukuda, Takeyuki Suzuki, Kaneo Kanoh and Tadashi Matsunaga, Catechol siderophore excretion by the magnetotactic bacterium *Magnetospirillum magneticum* AMB-1. **J. Biosci. Bioeng. 101 (2006) 445-447.**
9. Takeyuki Suzuki, Yoshiko Okamura, Ronie J. Calugay, Haruko Takeyama and Tadashi Matsunaga, Global gene expression analysis of iron-inducible genes in *Magnetospirillum* sp. strain AMB-1. **J. Bacteriol. 188(2006) 2275-2279**.
   Hiroko Yokouchi, Yayoi Fukuoka, Daikichi Mukoyama, **Ronie Calugay**, Haruko Takeyama[1] and Tadashi Matsunaga, Whole Metagenome Amplification of Microbial Community Associated with Scleractinian Coral by Multiple Displacement Amplification Using φ29 Polymerase. **Environ. Microbiol. (2006) 8: 1155-1163.**

Books

1. Emmanuel D. Delocado, Kimberly H. Carrillo, Ronie J. Calugay. Optimization of PCR Conditions for Potentially Novel Species of Lipolytic Bioluminescent Bacteria Isolated and Purified from Selected Philippine Epipelagic Organisms. In: **Biology Education and Research in a Changing Planet. pp. 131-142. E.G.S. Daniel (Ed.). 2015. Springer Science+Business Media Singapore.**
2. Vivian A. Panes, Ronie J. Calugay, Renando O. Solis, Rhea G. Abisado,Nonnatus S. Bautista, Abigail Loren T. Uy, Zomesh A. N. Maini, Mudjeekewis D. Santos, Jaime C. Marquez, Jeremy M. Torres. **Laboratory Manual in Genetics. 2013. Vol.1. Ateneo de Manila University Press.**
3. G. Padilla-Concepcion, E. Padlan and C. Saloma, editors, **Selected Essays on Science and Technology for Securing a Better Philippines. University of the Philippines Press, Diliman, Quezon City, December 2008.**

Research Presentations in Conferences

Date	Title of Presentation	Conference and Venue
International		
October 13-16, 2014	*Optimization of PCR Conditions for Potentially Novel Species of Lipolytic Bioluminescent Bacteria Isolated and Purified from Selected Philippine Epipelagic Organisms* (Delocado ED, Carrillo KH, **Calugay, RJ)**	**Conference Title:** 25th Biennial Asian Association For Biology Conference **Venue:** University of Malaya, Kuala Lumpur, Malaysia
March 15, 2014 - 16, 2014	*Isolation and Molecular Identification of Philippine Symbiotic Bioluminescent Bacteria and Screening of their Crude Extracts Against Nosocomial Bacteria* (Molina AJ, **Calugay RJ)**	**Conference Title:** ICETSR 2014: The International Conference on Emerging Trends in Scientific Research **Venue:** Kuala Lumpur, Malaysia

Creative Works

Date/s	Creative Work Details
June 2007	Cordilleraonline.com Title: The Birth of a New Destination
June 2007	Cordilleraonline.com Title: Touch the Sky in Mount Pulag

Public Service

Date/s	Extension Service Details
March 7-8, 2018	Organization: Philippines Society for Microbiology Inc. Title: 18th Northern Luzon Chapter Regional Convention and Scientific Meeting Position: Plenary Speaker Title of Talk: "Bridging the Academe and Industry through Microbiology"
March 9, 2017	Organization: Philippines Society for Microbiology Inc. Title: 17th Northern Luzon Regional Convention and Scientific Meeting Position: Plenary Speaker Title of Talk: "Microdibles: The Incredible Microbes of the 21st Century'
December 8-9, 2016	Organization: Philippines Society for Microbiology Inc., Title: Visayas Regional Chapter Annual Meeting

	Position: Plenary Speaker Title of Talk: 'Microbiology and Biotechnology in the Philippines: Bridging Traditions and Innovations'
November 16, 2016	Organization: Philippine Society for the Study of Nature Title: 10th Annual and 2nd National Scientific Conference of the Philippine Society for the Study of Nature Theme: Bridging Indigenous and Contemporary Knowledge and Practices for a Resilient Environment Position: Guest Speaker
May 6, 2016	Institution: Philippine Science High School Title: 'Exploring Philippine Microbial Biodiversity as Potential Source of Bioactive Compounds' Position: Resource Speaker and Trainor
April 28-30, 2016	Organization: Summer Institute in the Natural Sciences and Mathematics Committee Title: 22nd Summer Institute In the Natural Sciences and Mathematics: Strengthening K-12 Science and Mathematics Concepts and Pedagogies Position: Speaker, Facilitator, and Moderator
March 3-5, 2016	Organization: Philippine Society of Microbiology, Inc. Title: 16th Annual Regional, Convention, Philippine Society of Microbiology, Inc. Title of Talk: "Microbes: Nature's BFF! (Bestfriend/Bestfoe)" Position: Plenary Speaker
February 20, 2016	Organization: Philippine Society of Microbiology, Inc., Bicol Chapter Title: 8th Regional Convention and Scientific Meeting, Philippine Society of Microbiology, Inc. Title of Talk: 'Empowering the Nation in ensuring Food Security, Health and Ecosystem Stability' Position: Plenary Speaker
May 6-9, 2015	Organization: Restoration Ecology Society of the Philippines Saving the Cordilleras Ecosystem Network (RESPHIL-SCENe), Inc. University of the Philippines, Baguio City Title: 4th National Conference Position: Plenary Speaker Title of Talk: Microbes, Society and You
October 24-25, 2013	Institution: University of the Philippines Diliman

	Organization: National Institute for Molecular Biology and Biotechnology Title: 4th National Convention of the Philippine Society for Cell Biology, Inc. Position: Speaker Title of Talk: Do You Hear What I See? Insights Into Cell to Cell Bacterial Communication
June 2, 2013	Institution: Ateneo de Manila University Title: Alay ni Ignacio Commencement Exercise for Academic Enrichment Education for Graduating Public High School Students by Pathways to Higher Education, Leong Hall, Ateneo de Manila University, Loyola Heights, Quezon City Title of Talk: Slaying Giants Position: Commencement Speaker
November 12, 2012	Organization: Ateneo Placement Exposure (APEX) Title: Ateneo Placement Exposure (APEX) on Science and Technology by the Loyola Schools Office of Placement Position: Invited Speaker Title of Talk: Career Paths in Science
December 8-9, 2011	Organization: Thomas Aquinas Research Complex, University of Santo Tomas, Manila, Philippines Title: 38th Annual Philippine Society for Biochemistry & Molecular Biology Title of Talk: Magnetotactic bacteria: an enigmatic group of microbes Position: Invited Speaker

Membership in a National/International Organizations

Date/s	**Organization Details**
July 2018 – Present	Diplomate in Microbiology. Philippine Academy of Microbiology (PAM) Chair: Young Researchers Grant (YRG) Search Committee and Member, Organizing Committee of the ff National Conferences:
July 18-20, 2018	(A) 47th Annual Convention and Scientific Meeting of the Philippine Society of Microbiology (PSM) Inc.
July 6 – 7, 2017	(B) 46th PSM Annual Convention and Scientific Meeting of the Philippine Society of Microbiology (PSM) Inc., TRYP by Windham, Esplanade, Pasay City
July 20-24, 2016	(C) 7TH Asia Pacific Biotechnology Congress and 45th PSM Annual Convention and Scientific Meeting, Vigan Convention Center
-	Board Member/Officer: Institute of Biology, UP Diliman, Alumni Association Member, Organizing committee/Officer: Philippine Society for
March 25, 2017	Microbiology, Inc. (PSM) Cluster 2 Symposium: Microbiology:

	Redefining Lives Through Research, Development and Community Extension. Institute of Biology, UP Diliman.
November 26, 2016	Member and Moderator: Philippine Society for Microbiology, Inc. (PSM) Cluster 1 Symposium: Microbiology in Action! Improving Lives Through Education, Research and Extension, Far Eastern University, Manila
March 12, 2016	Vice-Chair and Moderator: Symposium-Microbiological Research Innovations in Agricultural Industry and Environment For ASEAN Integration Philippine Society of Microbiology, Inc. in Cooperation with Procter and Gamble(P&G), Philippine Miriam College, Quezon City
2015 – Present	National Board Officer, Aquatic Microbiology Representative, Philippine Society for Microbiology (PSM), Inc.
Nov 21, 2015	Member, Organizing Committee/Officer and Moderator: Symposium: Innovations in Microbiology and Biotechnology: Enhancing Competitiveness Towards Asean Integration on 21st Century. Philippine Society of Microbiology, Inc in Cooperation with Procter and Gamble(P&G), Phil.

Professional Development: Participation in Conferences/Trainings

Date	**Conference and Venue**
International	
December 10, 2013	Writing workshop: Getting Your Research Published
National	
April 20, 2017	**Conference:** National Public Consultation on the Proposed Revision of CMO 17, series of 2012 entitled "Policies and Guidelines on Educational Tours and Field Trips of College and Graduate" **Venue:** CHED Bldg., UP Diliman
March 7, 2017	**Conference:** National Public Consultation on the Proposed Revision of CMO 17, series of 2012 entitled "Policies and Guidelines on Educational Tours and Field Trips of College and Graduate" **Venue:** Mariano Marcos State University (MMSU), Batac, Ilocos Norte
March 4, 2017	**Conference:** 1st Philippine Network of Microbial Culture Collections, Inc. General Assembly, Biotechnology Center **Venue:** UP Los Banos
December 5-7, 2016	**Conference**: 2016 Science and Society Program Faculty Seminar and Workshop **Venue**: Taal Vista Hotel, Tagaytay City
June 16-18, 2016	**Conference**: Assessment of CS Degree Programs, GE Courses, Extension Activities & Other Academic Policies that will work for K-12 **Venue**: Lingayen Capitol, Lingayen, Pangasinan

November 23, 2015 **Conference:** Determination of Microbiology Track in Biology Programs of the various component universities of UP
Venue: DOST-NAST Bldg., Taguig, Metro Manila

Local

November 14, 2016 **Conference:** UP Baguio Graduate School Conference
Venue: El Cielito Inn, Baguio City

April 28-30, 2016 **Conference:** Summer Institute in the Natural Sciences and Mathematics: Strengthening K-12 Science And Mathematics Concepts and Pedagogies
Venue: UP Baguio