

Johanna Rachelle Q. Tuazon, MSc.

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CAREER OBJECTIVE:

To further knowledge in microbiology and the omics, while obtaining technical skills required in conducting studies, relevant to the current world problems and establish a robust foundation for implementing and leading research projects.

❖ EDUCATION:

Post Graduate	UNIVERSITY OF SANTO TOMAS Master of Science in Microbiology Department of Science and Technology, Scholar	2015 - 2018
Tertiary	UNIVERSITY OF THE EAST - MANILA Certification on Professional Education	2013
	PAMANTASAN NG LUNGSOD NG MAYNILA Bachelor of Science in Biology	2007 - 2011
Secondary	FELIPE G. CALDERON INTEGRATED SCHOOL	2003 - 2007
Elementary	FELIPE G. CALDERON INTEGRATED SCHOOL	1996 - 2003

❖ WORK EXPERIENCES:

TRINITY UNIVERSITY OF ASIA

College of Arts, Sciences, and Education

Biology Department

E. Rodriguez, Quezon City Philippines

Position: Faculty Lecturer

Duration: January 2020 - present

Subjects Taught: Industrial Microbiology

Microbial Physiology

Food Microbiology

Biochemistry

PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Atomic Research Division

Commonwealth, Quezon City

through the Department of Science and Technology
Science Education Institute - Career Incentive Program
Position: Career Incentive Program Researcher (Contract of Service)

Chemistry Research Section

Duration: July 2020 – Present

Job Description:

- Performs microbiological analysis of reference materials and radiation processed materials synthesized by the section
- Characterization of microorganisms related to samples containing Paralytic Shellfish Poisoning toxins
- Conducts radioligand-Receptor Binding Assay (r-RBA) for quantification of PSP toxins
- Optimization of tetrodotoxin quantification using saxitoxin r-RBA
- Performs chemistry procedures related to development of reference materials for monitoring harmful algal blooms including toxin stability and recovery testing
- Familiarize with methods on High Performance Liquid Chromatography and Mass Spectrometry

Biomedical Research Section

Duration: July 2019 – June 2020

Job Description:

- Optimization of DNA extraction and PCR conditions for target genes
- Performs gene expression analysis including RNA extraction, RT-qPCR and data analyses
- Optimization of restriction enzyme digestion procedure
- Analysis of Single Nucleotide Polymorphisms in samples using optimized procedures
- Drafting of technical reports
- Performs microbiological assays related to analysis of microbial load in food samples

PHILIPPINE GENOME CENTER

DNA Sequencing Core Facility

Maria Regidor, University of the Philippines - Diliman

through the Department of Science and Technology

Science Education Institute - Career Incentive Program

Position: Career Incentive Program Researcher (Contract of Service)

Duration: September 2018 – June 2019

Job Description:

- Renders services offered by the DNA Sequencing Core Facility *e.g.* nucleic acid extraction, quantification, amplification, PCR product purification and sequencing, library preparation)

- Drafts research proposals, laboratory Standard Operating Procedures and Equipment specifications
- Communicates with clients' regarding queries and samples analyses status
- Moderates and facilitates hands-on trainings on molecular biology
- Prepares training and laboratory materials

UNIVERSITY OF THE EAST

Manila Campus

Claro M. Recto, Manila

College of Arts and Sciences Laboratories

Position: Laboratory Technician, Biology Section

Duration: February 2012 - April 2015

Job Description:

- Issues and receives apparatus, chemicals, slides, microscopes, specimens and other laboratory supplies
- Prepares stains and chemicals for micro-techniques
- Prepares microbiological media used for biology related courses
- Maintains calibration of laboratory equipment
- Collects and cultures specimens used for various biology related courses
- Prepares preservatives and other chemical solutions and reagents
- Maintains precise records of consumed chemicals for PDEA reports
- Assigned in collection and proper chemical and abattoir waste disposal

UNIVERSITY OF THE EAST

Manila Campus

Claro M. Recto, Manila

College of Arts and Sciences Laboratories – Biology Section

Position: Emergency Employee

Duration: August 2011- February 2012

Job Description:

- Assists laboratory technicians and laboratory aides in preparation of laboratory materials needed by students and faculty members

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Environmental Management Bureau Laboratory

Practicum Training, April 2010

Job Description:

- Determination of Biological Oxygen Demand of water samples (BOD)
- Determination of Total Suspended Solids of water samples (TSS)
- Maintenance of equipment calibration

❖ **SEMINARS/CONFERENCES ATTENDED:**

“Linking Marine Science and Governance in Addressing Global Changes” held virtually by Philippine Association for Marine Science on July 22-24, 2021

Research Congress (ResCon) 2021 Mini-Symposium “Exploring Laboratory Instrumentation for Sustainability Research” held virtually by the Office of the Vice Chancellor for Research and Innovation, Central Instrumentation Facility, De La Salle University, Biñan, Laguna, Philippines on July 09, 2021

Introduction to Research Reactor Technology and the PRR-1 SATER held virtually by the Nuclear Reactor Operations Section, Department of Science and Technology – Philippine Nuclear Research Institute on May 28, 2021

1st Virtual and 21^s Regional Convention and Scientific Meeting: Microbial Technology Applications in the New Normal held virtually by the Philippine Society of Microbiology – Northern Luzon Chapter in coordination with Mariano Marcos State University, Department of Biological Science on April 15-16, 2021

Atomic Research Division Lecture Series on “Basic Operation and Applications of Microbial Oxidative Degradation Analyzer (MODA)” held virtually by Department of Science and Technology – Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City on March 25, 2021

Atomic Research Division Lecture Series on “Recent Advances in Environmental Radiation Monitoring Techniques” held virtually by Department of Science and Technology – Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City on March 8, 2021

Basic Training on Laboratory Instruments and Techniques held virtually by the Integrated Chemists of the Philippines on February 16-17, 2021

Philippine Nuclear Research and Development Conference 2020 Year 2 “AmBisyong Nukleyar tungo sa Maunlad na Pilipinas” Day 3 held virtually by Department of Science and Technology – Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, Philippines on December 10, 2020

Antimicrobial resistance – theory and methods held virtually by Technical University of Denmark on December 3, 2020

Atomic Research Division Lecture Series on “Surface Modification of Abaca Fiber via Radiation-Induced Graft Polymerization for Composite Reinforcement” held virtually by the Department of Science and Technology – Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City on November 24, 2020

Atomic Research Division Lecture Series on “Assessment on the Environmental Conditions of Abandoned and Inactive Mine in Palawan” held virtually by the Department of Science and Technology – Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, Philippines on October 27, 2020

Nuclear Power Webinar I: Introduction to Nuclear Power and Debunking Myths and Misconceptions on Nuclear Power held virtually by the Philippine Young Generation in Nuclear, Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City on October 23, 2020

E-learning on Fisheries Training Activities in “Regulatory Requirement for the Implementation of Good Manufacturing Practices in relation to Food Safety held virtually by the Bureau of Fisheries and Aquatic Resources, CALABARZON, Department of Agriculture on October 21, 2020

“Microbiology: From Concepts to Application Towards Sustainable Development” held virtually by the Philippine Society for Microbiology, Incorporated on July 16 and 17, 2020

“Innovations and Challenges in Microbial Culture Collection Curation” held by the Philippine Network of Microbial Culture Collection, Incorporated in cooperation with the University of Santo Tomas, College of Science, Department of Biological Sciences at the University of Santo Tomas Central Laboratories Auditorium on November 09, 2019

“Marine Biotechnology: How to get Treasure from the Ocean” World Experts Lecture Series held by the Natural Science Research Institute and UP Office of International Linkages in partnership with the Philippine Academy of Microbiology at the Institute of Biology Auditorium, University of the Philippines Diliman on July 16, 2019

“Access to Unculturable Environmental Microbes Using Advanced Technologies” World Experts Lecture Series held by the Natural Science Research Institute and UP Office of International Linkages in partnership with the Philippine Academy of Microbiology at the Institute of Biology Auditorium, University of the Philippines Diliman on July 16, 2019

41st Annual Scientific Meeting of the National Academy of Science and Technology held at the EDSA Shangri-La Hotel, Mandaluyong City on July 10-11, 2019

“Philippine Microbiology and the One Health Approach: Problems, Solutions and Updates” held by the Philippines Society of Microbiology, Inc. Cluster 2 at the Dr. Rosita Leong Hall, Ateneo de Manila University, Philippines on March 23, 2019

“Building Networks, Creating a Community” PGC Bioinformatics Symposium held by the Core Facility for Bioinformatics, Philippine Genome Center at the National Institute of Physics Auditorium, National Science Complex, University of the Philippines, Diliman, Quezon City on March 4, 2019

“Big Data for Big Science” ASTHRDP Graduate Scholars’ Conference Year 7 held at the Philippine International Convention Center, Pasay City, Metro Manila on June 18-19, 2018

“Microbiology: Redefining Lives through Research Development and Community Extension” held by the Philippine Society of Microbiology, Inc. Cluster 2 at the Institute of Biology Auditorium, National Science Complex, University of the Philippines, Diliman Quezon City on March 25, 2017

3rd International Symposium on Molecular Sciences (ISMS 2016) with the theme “Interdisciplinary and Collaborative Research Towards Internalization” held at the University of Santo Tomas at the Benavides Auditorium, December 1-2, 2016

“Acute Hepatopancreatic Necrosis Disease of Cultured Shrimps Regional/National Status and Response” University of Santo Tomas DOST Balik Scientist Program Tanghalang Teresita Quirino, Old Graduate School, University of Santo Tomas on May 13, 2016

“Scientific Communication: How to write a world class scientific paper” held by University of Santo Tomas Office of the Vice Rector for Research and Innovation at the University of Santo Tomas Thomas Aquinas Research Complex Auditorium on November 27, 2015

“Innovation in Microbiology and Biotechnology: Enhancing Competitiveness Towards ASEAN Integration” held by Philippine Society for Microbiology, Inc. Cluster 1 Symposium at Abbott Lopez Hall, San Beda College of Medicine on November 21, 2015

“2nd University of Santo Tomas-Tokyo University of Marine Science and Technology Aquatic Biotechnology Symposium” held at UST Highschool Auditorium, España, Manila, Philippines on November 9, 2015

“Chemicals Procurement and Disposal: Updates and Implementation” held by Philippine Alliance of Laboratory Equipment Users at Pugad Lawin Room, Quezon City Sports Club E. Rodriguez Sr. Blvd., Quezon City on December 11-12, 2014

“Laboratory Management for Laboratory Custodians/Technicians Course 2” held by the Biological Sciences Department and Professional Continuing Education, Centro Escolar University in Centro Escolar University, Manila on May 16, 2013

“Perking up Profitability by Implementation of Global Partners” held by Yana Chemodities Incorporated at YCI Building, 151 Kaliraya Street, Quezon City, Philippines on June 27, 2012

❖ **TRAININGS ATTENDED:**

Advanced Techniques in Gene Editing, Fluorescence Bioanalytics, and Quantitative Proteomics (Online) held by Department of Biology and Tuklas Lunas Development Center, Central Mindanao University on June 21 to July 6, 2021, *Trainee*

Radiation Safety Course – Sealed Sources in Industrial Devices (Online) held by the Nuclear Training Center of Philippine Nuclear Research Institute on May 24 to June 2, 2021, *Trainee*

Course on Biorisk Assessment and Standard Operating Procedures (Online) held by the University Research and Development Center, and College of Arts, Sciences, and Education, Trinity University of Asia, Quezon City, Philippines on April 20, 2021, *Trainee*

“Introduction to Environmental Health Microbiology and Communicable Disease Control” a self-paced virtual module offered by the University at Albany State University, School of Public Health New York, completed on May 29, 2020, *Trainee*

Online Biosafety Course (NTCBB-OBC2020-A-676) (Online) held by the National Training Center for Biosafety and Biosecurity, National Institute of Health, University of the Philippines Manila on April 06, 2020, *Trainee*

Online Basic Molecular Biology Module 1 to 4 (Basic Molecular Biology, Laboratory Practices, Nucleic Acid Extraction, Polymerase Chain reaction and Real Time PCR) held by the Division of Laboratory Systems, Centers for Disease Control and Prevention completed on April 02-03, 2020, *Trainee*

Training on Nucleic Acid Extraction and Basic Library Preparation for Next Generation Sequencing for Philippine Genome Center – Mindanao Satellite Facility Researchers held by the DNA Sequencing Core Facility at the Philippine Genome Center, Maria Regidor, University of the Philippines, Diliman, Quezon City on May 20-24, 2019, *Training Facilitator*

Zeiss Axio Imager.M2 – ApoTome.2 Training held by Zeiss Research Microscopy Solutions for DNA Sequencing Core Facility Staff at the Philippine Genome Center, Maria Regidor, University of the Philippines, Diliman, Quezon City on January 21-22, 2019, *Trainee*

Genomics Junior Camp 2018 Training for Philippine Science High School Students on Next Generation Sequencing and Bioinformatics held by the DNA Sequencing Core Facility and Core Facility for Bioinformatics of the Philippine Genome Center at the Philippine Genome Center, Maria Regidor, University of the Philippines, Quezon City, Diliman on October 22-26 and November 26-30, 2018, *Facilitator*

Hands-on Training Workshop on Gene Cloning for High School and College Science Teachers held by the American Society of Microbiology – Philippine Chapter at the Henry Sy Innovation Center, Miriam College on December 9-10, 2016, *Trainee*

“Taalaman: Lake’s First Biomuseum held by the Department of Biological Sciences, College of Science and Research Center for the Natural and Applied Sciences, University of Santo Tomas at the UST Main Building and UST Museum on June 7-17, 2016, *Exhibit Organizer*

Practicum Training at the Environmental Management Bureau Laboratory at the Department of Environment and Natural Resources on April-May 2010, *OJT Trainee*

❖ **PRESENTATIONS:**

Philippine Chemistry Congress 35th Conference “Build Back Better through Chemistry” held virtually on September 20-24, 2021, Poster Presented “Quantifying Paralytic Shellfish Poisoning (PSP) Toxins in Dried Mussel Samples Using a Modified Radioligand Receptor Binding Assay (r-RBA) Standard Method”, *Co-author*

Department of Agriculture - National Fisheries Research and Development Institute “Pangisdaan ay Paunlarin, Pananaliksik y Gamitin Upang ang Masaganang Ani at Mataas na Kita ay Makamit Natin” held virtually on September 1-8, 2021, Poster Presented “The Application of Radioligand-Receptor Binding Assay (r-RBA) in Pursuing Towards an Efficient Seafood Safety Monitoring Program of Marine Biotoxins in Environmental Samples”, *Co-author*

Philippine Nuclear Research and Development Conference 2020 Year 2 Virtual Poster Presentation “AmBisyong Nukleyar tungo sa Maunlad na Pilipinas” held on December 9, 2020 at the Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, Poster Presented “Effect of gamma irradiation on evaluation of reference mussel prototype”, *Presenter, Main Author*

Philippine Nuclear Research and Development Conference 2020 Year 2 Virtual Poster Presentation “AmBisyong Nukleyar tungo sa Maunlad na Pilipinas” held on December 9, 2020 at the Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, Poster Presented “Inter-individual Differences in Radiosensitivity Based on Micronucleus Assay and CDKN1A mRNA: A Preliminary Report”, *Co-author*

Philippine Nuclear Research and Development Conference 2020 Year 2 Virtual Poster Presentation “AmBisyong Nukleyar tungo sa Maunlad na Pilipinas” held on December 9, 2020 at the Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, Poster Presented “Radiation Sensitivity of Surface Mycoflora from Strawberry (Var. Sweet Charlie) in Vitro”, *Co-Author*

Training on Nucleic Acid Extraction and Basic Library Preparation for Next Generation Sequencing for Philippine Genome Center – Mindanao Satellite Facility Researchers held by the DNA Sequencing Core Facility at the Philippine Genome Center, Maria Regidor, University of the Philippines, Diliman, Quezon City on May 20-24, 2019, *Training Lecturer*

ASTHRDP Graduate Scholars’ Conference Year 7 “Big Data for Big Science” held by the Science Education Institute and Accelerated Science and Technology Human Resource Development Program National Science Consortium of the Department of Science and Technology at the Philippine International Convention Center, Pasay City, Metro Manila on June 18 and 19, 2018, Poster Presented “Implication of Fish Feed

Enrichment on Density and Dominance of Fermentative Bacteria in Sediments of Aquaculture Sites in Lake Taal, Batangas, Philippines”, *Poster Presenter*

Graduate Research Colloquium held by the University of Santo Tomas Office of Graduate Research at the Research Center for the Natural and Applied Sciences, University of Santo Tomas on October 21, 2017, Poster Presented “Implication of Fish Feed Enrichment on Density and Dominance of Fermentative Bacteria in Sediments of Aquaculture Sites in Lake Taal, Batangas, Philippines”, *Oral Presenter*

❖ **AWARDS AND AFFILIATIONS:**

Department of Science and Technology

National Science Consortium 2015, *Scholar*

Professional Regulation Commission

Licensure Examination for Teachers 2013 (Secondary Level), *Board Passer*

American Society for Microbiology

Member

Philippine Society for Microbiology

Member

Philippine Network of Microbial Culture Collection, Incorporated

Member

❖ **CHARACTER REFERENCES:**

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