

Số: 424 /TB-D

Thành phố Hồ Chí Minh, ngày 12 tháng 10 năm 2022

**THÔNG BÁO**  
**Về việc buổi sinh hoạt khoa học tháng 10/2022**

Khoa Dược trân trọng kính mời quý Thầy, Cô, các sinh viên, học viên Khoa Dược tham dự buổi sinh hoạt khoa học tháng 10 năm 2022 với nội dung như sau:

1. Đề tài báo cáo: **Development of some nutraceuticals and antibiotic products.**
2. Báo cáo viên:
  - GS.TS. Jonel P. Saludes, Associate Vice President for Research and Global Relations, Director of Center for Natural Drug Discovery and Development, University of San Agustin, Cộng hòa Philippines (đính kèm Lý lịch khoa học);
  - Bà Edna M. Sabido, Tuklas Lunas Center, Center for Chemical Biology and Biotechnology, University of San Agustin, Cộng hòa Philippines (đính kèm Lý lịch khoa học).
3. Thời gian: từ 08:00 đến 11:00, thứ Ba ngày 18 tháng 10 năm 2022.
4. Địa điểm: Phòng Hợp Khoa Dược.
5. Chương trình:

THỜI GIAN	NỘI DUNG
07:45 - 08:00	Đăng ký tham dự.
08:00 - 08:10	Tuyên bố lý do, giới thiệu đại biểu, báo cáo viên. Đại diện lãnh đạo Khoa Dược phát biểu khai mạc.
08:10 - 09:10	Báo cáo chuyên đề 1: <i>Study of nutraceuticals and their product development.</i> GS.TS. Jonel P. Saludes
09:10 - 09:25	Giải lao, teabreak.
09:25 - 10:25	Báo cáo chuyên đề 2: <i>Discovery of antibiotics from marine actinomycetes.</i> GS.TS. Jonel P. Saludes và Bà Edna M. Sabido
10:25 - 10:55	Thảo luận chung.
10:55 - 11:00	Kết thúc buổi sinh hoạt khoa học. Đại diện lãnh đạo Khoa Dược tặng quà cho báo cáo viên, chụp ảnh lưu niệm.

6. Đăng ký tham dự (trước 17:00 Chủ nhật ngày 16/10/2022): qua đường link <https://forms.office.com/r/mKLeHgiiVH>.

Khoa Dược - Đại học Y Dược Thành phố Hồ Chí Minh rất mong nhận được sự quan tâm đăng ký tham dự của quý Thầy, Cô, sinh viên, học viên Khoa Dược.

Trân trọng, *hnh*

**Nơi nhận:**

- Ban Chủ nhiệm Khoa (để biết);
- Trung tâm Sapharcen (để đăng ký);
- Các Bộ môn (để đăng ký);
- Đơn vị ĐBCLGD (để đăng ký);
- Sinh viên, học viên khoa Dược (để đăng ký);
- Lưu: VT, HTQT&NCKH.NMP

**TRƯỞNG KHOA**



Trần Thành Đạo

## Brief Biosketch of Dr. Jonel P. Saludes

Dr. Jonel P. Saludes earned his undergraduate degree in Chemistry from University of San Agustin and MS Chemistry from University of Santo Tomas. At University of California, he earned a PhD in Organic Chemistry and demonstrated the structure of peptides that serve as marker of human cancers using nuclear magnetic resonance spectroscopy. He pursued postdoctoral training in chemical biology at University of Colorado, where he designed peptides that detect nanoparticles involved in cell signaling. He pursued an independent academic career at Washington State University, where he developed SialoPen, a new generation of protein drug delivery agent.

He returned to the Philippines as a Long-term DOST Balik (Returning) Scientist Awardee and is currently a Professor of Chemistry and the Associate VP for Research and Global Relations at University of San Agustin. He is also the Director of the Center for Natural Drug Discovery and Development (**CND3**) and pursues research programs in drug delivery, cell signaling, antibiotic and anticancer drug discovery, cholesterol lowering property of pineapples, and development of agricultural commodities like turmeric and *Euphorbia* into standardized commercial products. In a short period after his return to Iloilo, he established 5 new world-class research centers at University of San Agustin including the CND3, the *Center for Chemical Biology and Biotechnology (C2B2)* – the hub of life science and biotechnology research, the *Center for Informatics (CFI)* – the first research center in the countryside solely dedicated to big data processing and bio and medical informatics, the *Center for Heritage and Indigenous Cultures (CHIC)* – the resource in the preservation and enrichment of Filipino culture, heritage, and indigenous identity, and the *Center for Advanced New Materials, Engineering, and Emerging Technologies (CANMEET)* – the first and only nanomaterials and nanotechnology research center in Western Visayas region of the Philippines. Through his leadership, strong partnerships were established with leading global corporate industry partners including Del Monte, Shimadzu Corporation, The Medical City, Merck Inc., Bruker Corp., Waters Corp., and JEOL Inc.

In the year 2021, Dr. Saludes was recognized as one of the Top 100 Asian Scientists (<https://www.asianscientist.com/scientist/jonel-saludes>), the Outstanding Professional of the Year Awardee in Chemistry by the Philippine Professional Regulation Commission, and the Best Mentor in Health Research in Visayas by the Philippine National Health Research System.

**Jonel P. Saludes, PhD, MRSC**  
*Philippines DOST Balik Scientist, Long-Term Expert, 2015-2018*

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Professor of Chemistry  
University of San Agustin, Iloilo City, Philippines

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**RESEARCH INTERESTS AND EXPERTISE**

1. Marine and terrestrial natural products discovery for health and therapeutic applications.
2. Design and preparation of new peptides as therapeutic and intracellular delivery agents.
3. Peptide engineering to sense and capture nanoparticles.

*Scientific expertise includes:*

- Chemical biology of natural products from marine organisms and terrestrial plants
- Design, synthesis, characterization, and structural analysis of peptides
- Preparation and characterization of nanoparticles using dynamic light scattering (DLS), nanoparticle tracking analysis (NTA), and electron microscopy
- Small molecule synthesis
- Mass spectrometric techniques including MALDI-TOF-MS and ESI-MS
- Nuclear magnetic resonance (NMR) spectroscopy including 1D and 2D-homonuclear and heteronuclear solution phase techniques
- Optical spectroscopic techniques including circular dichroism, fluorescence, FT-Infrared, and UV-Vis spectroscopy
- Chromatographic techniques including gravity, flash column, size exclusion, and analytical/semi-preparative/preparative HPLC

**EDUCATION**

**University of Colorado Boulder** Colorado, USA

Postdoctoral Fellow, Chemical Biology, 2012

Advisor: Hubert Yin, Ph.D., Professor of Chemistry and Biochemistry

**University of California Davis** California, USA

Ph.D., Organic Chemistry, 2009

Advisor: Jacquelyn Gervay-Hague, Ph.D., Professor of Chemistry, Fellow: AAAS and ACS

**University of Santo Tomas** Manila, Philippines

M.S., Natural Products Chemistry, 1999 (Summa Cum Laude)

Advisor 1: Alicia M. Aguinaldo, Ph.D., Professor of Chemistry, University of Santo Tomas

Advisor 2: Mary J. Garson, Ph.D., Professor of Chemistry, University of Queensland, Australia

Past President: IUPAC Division of Organic and Bioorganic Chemistry

**University of San Agustin** Iloilo, Philippines

B.S., Chemistry, 1991 (Cum Laude) Advisor: Noemi P. Peneiro

**PROFESSIONAL EXPERIENCE**

Nov. 2015 - Present Associate Vice President, Research and Global Relations (ORGR), University of San Agustin, Iloilo City, Philippines

***Achievements:***

- Established Global Initiatives 2020 (**GI2020**), the 4-year road map of the R&D program of the University of San Agustin in February 2016.
- Strengthened the role and weight of research productivity in academic rank promotion through the Presidential Memorandum No. 12, August 2017.

- Generous incentives for research productivity of faculty members were instituted through the Presidential Circular No. 19, August 2017.
- Established the *Center for Chemical Biology and Biotechnology (C2B2)* in October 2016, the hub of life science, chemical biology, and biotechnology research of the university.
- Established the *Center for Natural Drug Discovery and Development (CND3)* October 2016, the drug discovery center of the university and home of DOST Tuklas Lunas Center in Region VI.
- Established the *Center for Heritage and Indigenous Cultures (CHIC)* October 2017, the hub of Augustinian heritage, indigenous peoples, and cultural research of the university.
- Established the *Center for Informatics (CFI)* in October 2018, with the vision of becoming the center of excellence in responsible data research and applications in Western Visayas and in the Philippines.
- Spearheaded the *Phase 2* renovation of research laboratories that became the home of C2B2 and CND3, July 2018.
- Spearheaded the *Phase 3* renovation of research laboratories that will become the home of CFI, the Molecular Diagnostics Laboratory, and the first and only WATERS Corporation Center of Excellence in Imaging Mass Spectrometry in the Philippines, April 2020.
- Established the national government-accredited USA Research Ethics Review Committee (**RERC**) in May 2016.
- Established the USA Institutional Biosafety Committee (**IBC**) headed by an internationally-accredited biosafety officer in June 2016.
- Established linkages with local and international academic and government partners for research collaboration including USAID STRIDE, Louisiana State University, University of Malaysia Terengganu, Universiti Kebangsaan Malaysia, Chinese Academy of Sciences, Elisabeth University of Music, Madonna University-Michigan, Atma Jaya Catholic University of Indonesia, University of the Philippines Manila, Livestock Biotechnology Center, West Visayas State University College of Medicine, Iloilo School of Fisheries, University of San Carlos, Davao Oriental State College of Science and Technology, De La Salle University Dasmarias, and De La Salle Medical and Health Science Institute.
- Established local and international partnership with private corporations including Del Monte, Shimadzu Corporation, Merck, Rainphil, Waters Corporation, Maridan Industries, The Medical City, Ombinus Bio-medical, and Herbanext Laboratories.
- Established the partnership with **Institute of Biological Chemistry-Academia Sinica, Taiwan** that led to the 1<sup>st</sup> USA-AS Bilateral Research Symposium on April 11-12, 2018 and the 2<sup>nd</sup> USA-AS Bilateral Research Symposium/Iloilo International Conference on Advanced Natural Products Technologies (**I2CANProTech**) on April 28-30, 2019.
- Established the Research Endowment Fund program to attract donations and collections for the sole purpose of sustaining and perpetuating the research enterprise of the university in June 2016.
- Established the Visiting Professors Program that has brought in 32 experts from local and international institutions since February 2016.
- Established the biennial conference called Augustinian Showcase for Undergraduate and Graduate Research and Engagement (**ASSURE**), an Augustinian inter-school research colloquium and competition, April 2016 and April 2018, April 2020.

- Two in-house journals, **Augustinian** and **Scientific Augustinian**, were revived and are now internationally peer-reviewed through the leadership of newly-hired competent Editors-in-Chief supported by Editorial Boards composed of well-published local and international scholars.
  - Revived the unproductive USA Innovation and Technology Support Office (**ITSO**) franchise of IPOPHL, opened a new, wired, and secured ITSO office, and engaged a British intellectual property expert as the Director to lead the new team of dynamic ITSO Associates in January 2018. Sixty-nine (69) IP applications were already filed on the first year of full operations of USA ITSO.
- June 2018 – Present      Director, Center for Natural Drug Discovery and Development (CND3)  
University of San Agustin, Iloilo City, Philippines
- Achievements:**
- Leads a team of researchers composed of chemists, pharmacists, and biologists in multiple projects whose unified goal is to discover chemical entities with antibacterial, anticancer, cholesterol-lowering, lipase, anti-inflammatory, and antithrombocytopenic activities
  - Led the acquisition of forty-three (43) of state-of-the-art equipment through institutional and external funding support
  - Serves as Project Leader of five externally-funded projects with a total research grant of PhP 85.71 Million.
  - Serves as Co-Investigator of seven externally-funded projects with a total research grant of PhP 123.42 Million.
- July – Oct. 2019      Associate Vice President, Office of the VP for Academic Affairs (VPAA)  
University of San Agustin, Iloilo City, Philippines
- Achievements:**
- Managed the needs of VPAA and Colleges for institutional accreditation
  - Led the VPAA team for successful compliance to ISO 9001:2015 standards
  - Led the VPAA team for accreditation of Graduate Programs in Business and Education
- 2017 – 2019      Pollution Control Officer, University of San Agustin, Iloilo City, Philippines
- Achievements:** Secured the Permit to Operate, PCO Accreditation, and Hazardous Waste Generator ID from Environmental Management Bureau of the Department of Environment and Natural Resources, Philippines. Prepared the application for discharge permit and Environmental Compliance Certificate. Managed the successful transportation and treatment of 10 tons of hazardous wastes by DENR EMB accredited service provider in June 2018.
- 2018 – 2019      Adjunct Professor, College of Science and Computer Studies, De La Salle University, Dasmariñas, Cavite, Philippines
- 2018 – 2019      Adjunct Professor, Department of Chemistry, De La Salle University, Manila, Philippines
- 2017 – Present      Adjunct Professor, Graduate School, Centro Escolar University, Manila, Philippines
- 2017 – Present      Consultant, Research Center, Davao Medical School Foundation, Davao City, Philippines
- 2015 – Present      Adjunct Professor, College of Medicine, West Visayas State University, Iloilo City, Philippines

- 2015 – 2018 Adjunct Professor, Department of Chemistry, Washington State University Pullman, Washington, USA
- July – October 2015 In-Charge, Gregor Mendel Research Laboratories, University of San Agustin, Iloilo City, Philippines  
**Achievements:** Spearheaded the *Phase 1* renovation of research laboratories to transform the worn out Gregor Johann Mendel Research Laboratory (now called *Gregor Mendel Research Laboratories, GMRL*) and the acquisition of state-of-the-art equipment in July 2015, which was inaugurated one year later by the Director of Commission on Higher Education Region VI.
- 2015 – Present Full Professor, Department of Chemistry, University of San Agustin, Iloilo City
- 2012 – 2015 Assistant Professor of Chemistry, Washington State University.  
**Achievements:** Published seven peer-reviewed articles, two were selected as feature cover articles. Developed a rationally designed, sugar amino acid-derived, novel class of membrane permeable peptides called **SialoPen** that penetrate HeLa and neuronal cells (*Provisional Patent Application*). Developed **OneSTEP**, the one-pot, rapid, solvent-free, silica sulfuric acid catalyzed beta-elimination protocol. Identified a targeting “hot spot” in the transmembrane domain of prostate cancer biomarker protein implicated in metastasis. Trained one postdoctoral, five graduate and twelve undergraduate students, majority of whom have received national, state and university awards.  
 Served as Advisor for Louis Stokes Alliance for Minority Participation (LSAMP) to strengthen the presence and number of underrepresented minority students.
- 2010 – 2012 Postdoctoral Fellow in Chemical Biology. Department of Chemistry & Biochemistry and BioFrontiers Institute, University of Colorado Boulder.  
 Advisor: Prof. Hubert Yin  
**Achievements:** Discovered synthetic peptides that sense highly curved lipid membrane bilayers. Developed a method for screening peptide-lipid interactions using nuclear magnetic resonance spectroscopy. Co-PI of a project on Biotechnology Development and Enhancement to advance cancer biomarker studies to pre-commercialization stage. Trained an undergraduate researcher who received the American Association for Cancer Research Thomas J. Bardos Science Education Award based on the project that she was working under my supervision. Trained a minority graduate student who received a NIH pre-doctoral fellowship based on the project that she was working under my supervision.
- 2009 – 2010 Postdoctoral Scholar. Department of Chemistry, University of California Davis.  
 Advisor: Prof. Jacquelyn Gervay-Hague  
**Achievements:** Studied the conformations of  $\delta$ -amide-linked sialic acid homopolymers. Performed large-scale synthesis of an antiviral peptide mimotope.
- 2009 Nuclear Magnetic Resonance Research Specialist. NMR Facility, University of California Davis.  
 Supervisor: Dr. Jeffrey Walton  
**Achievements:** Performed spectrometer maintenance, testing, and troubleshooting. Recorded 1D- and 2D-spectra for clients and assisted users for  $^1\text{H}$ ,  $^{13}\text{C}$ , and non-routine nuclei experiments. Trained/certified users of NMR spectrometers.
- 2003 – 2009 Teaching and Graduate Research Assistant. Department of Chemistry, University of California Davis.



Advisor: Prof. Jacquelyn Gervay-Hague

**Achievements:** As Teaching Assistant: lectured in discussion classes, supervised laboratory experiments, graded exams, assisted in the preparation of lecture materials, and trained graduate students in the use of CD and NMR spectrometers. As Research Assistant: Elucidated the three-dimensional helical structure by solution phase NMR spectroscopy and investigated the in vitro blood plasma stability of novel chimeric sialic acid peptides.

- 1999 – 2003      Assistant Professor and Chair. Department of Chemistry, University of San Agustin, Iloilo City, Philippines.  
**Achievements:** Taught undergraduate and graduate organic chemistry courses for engineering, health science, and chemical education majors. Supervised 25 faculty members and 10 laboratory staff that served an average of 2000 students every semester. Founded the first science research laboratory at the University of San Agustin, the Gregor Johann Mendel Research Laboratory in 2001. Principal investigator, undergraduate research in natural products chemistry. Established collaborative instructional and research programs with University of Santo Tomas (UST, Philippines), University of Queensland (UQ, Australia), and University of Illinois at Chicago. These collaborations enabled five faculty members successfully completed their advanced degrees at UST and one was trained on marine natural products at UQ.
- 1994 – 1999      Lecturer. University of San Agustin, Iloilo City, Philippines.  
**Achievements:** Taught undergraduate general and organic chemistry.
- 1994              Lecturer: University of Mindanao Tagum College, Tagum, Davao, Philippines  
**Achievements:** Taught Forensic Chemistry to undergraduate Criminology students.
- 1992 – 1994      Analyst and Supervisor. Soils Laboratory, Twin Rivers Research Center, Tagum, Davao, Philippines.  
**Achievements:** Performed trace metal analysis for soil and plant tissue samples by atomic absorption and UV-Vis spectroscopy. Supervised the operation of the Soils Laboratory composed of a staff of chemists, chemical engineers, and agriculturists. Management strategies included periodic meetings, discussions, trainings, and planning with staff as well as interactions with upper management and research scientists. Spearheaded the laboratory's accreditation by the Department of Agriculture.

### Intellectual Property and Provisional Patents

1. Compositions for Treating Hypercholesterolemia and Preparation Methods Thereof. Saludes JP, Dalisay DS, Suarez AFL, Juanillo A, Sison DCD, Orajay JI, Javier MBB. *IPOPHL Application Number 1-2020-050510*. Filing Date: 9 December 2020.
2. Method for Determining the Spatial Localization of Hypocholesterolemic Compounds in Pineapple Fruit Using MALDI Imaging Mass Spectrometry. Saludes JP, Dalisay DS, Suarez AFL, Juanillo A, Sison DCD, Orajay JI, Javier MBB. *IPOPHL Application Number 2-2020-050696*. Filing Date: 9 December 2020.
3. Method for Determining the Spatial Localization of Lipase Inhibitory Compounds in Pineapple Fruit Using MALDI Imaging Mass Spectrometry. Saludes JP, Dalisay DS, Suarez AFL, Juanillo A, Sison DCD, Orajay JI, Javier MBB. *IPOPHL Application Number 2-2020-050697*. Filing Date: 9 December 2020.

4. Method to Identify Molecular Structure of Hypocholesterolemic Compounds from Pineapple Fruit. Saludes JP, Dalisay DS, Suarez AFL, Juanillo A, Sison DCD, Orajay JI, Javier MBB. *IPOPHL Application Number 2-2020-050698*. Filing Date: 9 December 2020.
5. Method to Identify Molecular Structure of Lipase Inhibitory Compounds from Pineapple Fruit. Saludes JP, Dalisay DS, Suarez AFL, Juanillo A, Sison DCD, Orajay JI, Javier MBB. *IPOPHL Application Number 2-2020-050699*. Filing Date: 9 December 2020.
6. Cationic Peptides for Intracellular Delivery of Bioactive Molecules. Saludes JP, Monreal IA. *USA Prov. Appl.* **2014**, 62/077,819.
7. Composition, Methods and Uses for Peptides in Diagnosis, Progression and Treatment of Cancers. Yin H, Saludes, JP, Morton, LA. *USA Prov. Appl.* **2011**, 61/528,959; *PCT Int. Appl.* **2012**, US2012/053225.

#### **Collaborators: Past and Present**

1. Prof. Hector C. Aguilar, Cornell University, Ithaca, New York, U.S.A.
2. Prof. Edwin Chapman, Howard Hughes Medical Institute and Department of Neuroscience, University of Wisconsin, Madison, Wisconsin, U.S.A.
3. Prof. Monika Fleshner, Department of Integrative Physiology, University of Colorado Boulder, Colorado, U.S.A.
4. Prof. Scott Franzblau, Institute for Tuberculosis Research, University of Illinois at Chicago, Illinois, U.S.A.
5. Prof. Mary J. Garson, School of Chemistry and Molecular Biosciences, University of Queensland, Brisbane, Australia
6. Prof. James B. Ames, Department of Chemistry, University of California Davis, California, U.S.A.
7. Prof. Gary Wayman, Department of Neuroscience, Washington State University, Pullman, Washington, U.S.A.
8. Dr. Deanne Sammond, Department of Bioenergy, National Renewable Energy Laboratory, Golden, Colorado, U.S.A.
9. Prof. Maribel G. Nonato, Thomas Aquinas Research Complex, University of Santo Tomas, Espana, Manila, Philippines
10. Prof. Alicia M. Aguinaldo, Thomas Aquinas Research Complex, University of Santo Tomas, Espana, Manila, Philippines
11. Prof. Jacquelyn Gervay-Hague, Department of Chemistry, University of California Davis, California, U.S.A.
12. Dr. Yu-Liang Yang, Agricultural Biotechnology Research Center, Academia Sinica, Taipei, Taiwan
13. Dr. Chun-Hung Lin, Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan
14. Prof. Krisztina Varga, Department of Molecular, Cellular, and Biomedical Sciences, University of New Hampshire, Durham, New Hampshire, U.S.A.
15. Dr. Zhaoqi Zhan, Analytical Services Laboratory, Shimadzu Asia Pacific, Science Park, Singapore
16. Dr. Joey Orajay and Mr. Dave Clark Sison, Del Monte Phil. Inc., Manolo Fortich, Bukidnon, Philippines
17. Mr. Philip Cruz, Herbanext Laboratories, Bago City, Negros Occidental, Philippines
18. Dr. Isagani Padolina, Pascual Pharma Corporation, Los Banos, Laguna, Philippines
19. Mr. Jan Vincent Sollesta, Maridan Industries Inc., Jaro, Iloilo City, Philippines
20. Dr. Gerard Dumancas, Department of Chemistry, Louisiana State University, Alexandria, Louisiana, U.S.A.
21. Prof. Xiaohui Wang, Chinese Academy of Sciences, Changchun, China



22. Dr. Shih-Hsiung Wu, Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan
23. Dr. Roland Remenyi and Mr. Mark Carascal, The Medical City Ortigas
24. Ms. Bea Nestie Angeli Villareal, The Medical City Iloilo
25. Dr. Zhang Ying, School of Pharmaceutical Sciences, Tsinghua University, Beijing, China

## Publications

The author's *h-index* is **14**. Number of times work was cited: **1868**. Updated: May 7, 2020 Source: Google Scholar, <https://scholar.google.com/citations?user=UypZhnQAAAAJ&hl=en>

33. Suarez AFL, Tirador ADG, Villorente ZM, Bagarinao CF, Sollesta JVN, Dumancas GG, Sun Z, Zhan ZQ, Saludes JP, Dalisay DS. The Isorhamnetin-Containing Fraction of Philippine Honey Produced by the Stingless Bee *Tetragonula biroi* Is an Antibiotic against Multidrug-Resistant *Staphylococcus aureus*. *Molecules*, **2021**, 26, 1688. **Impact Factor: 3.267**
32. Monreal IA, Contreras EM, Wayman GA, Aguilar HC, Saludes JP. SialoPen Peptides are New Cationic Foldamers with Remarkable Cell Permeability, *Heliyon*, **2020**, e05780. DOI: 10.1016/j.heliyon.2020.e05780. **Impact Factor: 1.650**
31. Kee SH, Chiongson JBV, **Saludes JP**, Vigneswari S, Ramakrishna S, Bhubalan K. Bioconversion of agro-industry sourced biowaste into biomaterials via microbial factories – a viable domain of circular economy. *Environmental Pollution*, **2020**, Just Accepted. DOI: 10.1016/j.envpol.2020.116311. **Impact Factor: 6.792**
30. Sabido EM, Tenebro C, Suarez AFL, Ong SDC, Trono DJVL, Amago D, Evangelista J, Reynoso AM, Villalobos IG, Alit LD, Surigao C, Villanueva C, Saludes JP, Dalisay DS. Marine Sediment-derived *Streptomyces* strain Produces Angucycline Antibiotics against Multidrug Resistant *Staphylococcus aureus* harboring SCCmec type 1 gene. *Journal of Marine Science and Engineering*, **2020**, 8, 734. DOI: 10.3390/jmse8100734. **Impact Factor: 1.732**
29. Chiongson JB, Sabido, E, Lin, KG, Alea G, Dalisay DS, Wu SH, **Saludes JP**. Multimeric TAT peptides are effective in vitro inhibitors of *Staphylococcus saprophyticus*. *Chemical Biology and Drug Design*, **2020**, 96, 1348-1354. DOI: 10.1111/cbdd.13706. **Impact Factor: 2.400**
28. Paderog MV, Suarez AFL, Sabido EM, Low ZJ, Saludes JP, Dalisay DS. Accumulated Anthracycline Shunt Metabolites in Philippine Marine Sediment-Derived *Streptomyces* Triggers Membrane Leakage to Multidrug Resistant *Staphylococcus aureus*. *Frontiers in Microbiology*, **2020**. DOI: 10.3389/fmicb.2020.00743. **Impact Factor: 4.076**
27. Dumancas GG, De Castro R, Saludes JP, Penaranda BS, Bello GA, Villa FRP, Villareal BNAL. Padernal WF, Posecion TMA, Guanzon MLVV, Drilon JM, Montoya JC. Barriers and Recommendations for Developing a Data Commons for the Implementation and Application of Cardiovascular Disease and Diabetes Risk Scoring in the Philippines. *Current Epidemiology Reports*, **2020**, 7, 77–88.
26. Marcial NBJM, Carisma, MS, Dumancas GG, Tolones AP, Saludes, JP. Profiling the Heavy Metal Contents of Commercial Herbal Teas in Iloilo, Philippines. *Scientific Augustinian*, **2019**, 9, 1-9.
25. Dalisay DS, Tenebro CP, Sabido EM, Tampus K, Fabrigar TA, Saludes JP. Exploring the Antibacterial Potential of Marine Actinobacteria Isolated at Different Sediment Depths in a Western Visayas Island. *NRCP Research Journal*, **2018**, 17 (3), 9-36.
24. Monreal IA, Liu Q, Tyson K, Dalisay DS, Adams EV, Wayman GA, Aguilar HC, Saludes JP. Branched dimerization of Tat peptide improves permeability to HeLa and hippocampal neuronal cells. *Chemical Communications*, **2015**, 51, 5463-5466. Invited contribution, Emerging Investigators Issue. DOI: 10.1128/JVI.02277-14. **Impact Factor: 5.996**. Times Cited: 18

23. Paragas EM, Monreal IA, Vasil C, Saludes JP. One-pot SSA-catalyzed  $\beta$ -Elimination offers efficient and inexpensive access to the glycal of sialic acid. *Carbohydrate Research*, **2015**, 402, 77-80. DOI: 10.1016/j.carres.2014.09.002. **Impact Factor: 1.929** Times Cited: 1
22. Saludes JP, Molinski TF. Constituents of the Marine Sponge *Pseudoceratina crassa* inhibitory to alpha-Glucosidase. *Scientific Augustinian*, **2014**, 14, 1-18.
21. Liu Q, Bradel-Tretheway B, Monreal IA, Saludes JP, Lu X, Aguilar HC. Nipah virus attachment glycoprotein stalk C-terminal region links receptor binding to fusion triggering. *Journal of Virology*, **2014**, 9, 1838-1850, DOI: 10.1128/JVI.02277-14. **Impact Factor: 4.324** Times Cited: 37
20. Beninson LA, Brown PN, Loughridge AB, Saludes JP, Maslanik T, Hills AK, Woodworth T, Craig W, Yin H, Fleshner M. Acute stressor exposure modifies plasma exosome-associated heat shock protein 72 (Hsp72) and microRNA (miR-142-5p and miR-203) expression. *PLOS ONE*, **2014**, 9, e108748. DOI: 10.1371/journal.pone.0108748. **Impact Factor: 2.740** Times Cited: 44
19. Saludes JP, Sahoo D, Monreal IA. Rapid and facile preparation of sialic acid congeners using microwave irradiation. *New Journal of Chemistry*, **2014**, 38, 507-510. DOI: 10.1039/C3NJ01459B. **Impact Factor: 3.288** Times Cited: 6
18. Paragas, EM, Saludes JP. Foldamers: Oligomers that fold with defined secondary structures. *Acta Manilana*, **2013**, 61, 291-303.
17. Saludes JP, Gregar TQ, Monreal IA, Cook BM, Danan-Leon LM, Gervay-Hague J.\* Solution phase conformation and proteolytic stability of amide-linked neuraminic acid analogues. *Biopolymers*, **2013**, 99, 686-696. **Cover Feature**. DOI: 10.1002/bip.22315. **Impact Factor: 2.248** Times Cited: 3
16. Saludes JP, Morton LA, Coulup SK, Fiorini Z, Cook BM, Beninson L, Chapman ER, Fleshner M, Yin H. Multivalency amplifies the selection and affinity of Bradykinin-derived peptide for lipid nanovesicles. *Molecular BioSystems*, **2013**, 9, 2005-2009. **Cover Feature**. DOI: 10.1039/C3MB70109C. **Impact Factor: 2.830** Times Cited: 13
15. Lee JL, Sammond DW, Fiorini Z, Saludes JP, Yin H, Liu X.\* Computationally Designed Peptide Inhibitors Against the Ubiquitin E3 Ligase SCFFbx4. *ChemBioChem*, **2013**, 14, 445-451. DOI: 10.1002/cbic.201200777. **Impact Factor: 2.576** Times Cited: 6
14. Morton LA, Yang H, Saludes JP, Fiorini Z, Beninson LA, Chapman ER, Fleshner M, Xue D, Yin H. MARCKS-ED peptide as a curvature and lipid sensor. *ACS Chemical Biology*, **2013**, 8, 218-225. DOI: 10.1021/cb300429e. **Impact Factor: 4.374** Times Cited: 50
13. Saludes JP, Morton LA, Ghosh N, Beninson L, Chapman ER, Fleshner M, Yin H. Detection of highly curved membrane surfaces using a cyclic peptide derived from synaptotagmin-I. *ACS Chemical Biology*, **2012**, 7, 1629-1635. DOI: 10.1021/cb3002705. **Impact Factor: 4.374** Times Cited: 34
12. Morton LA, Coulup SK, Saludes JP, Yin H. Cancer biomarkers beyond proteomics and genomics: nanovesicles as indicators of cancer progression. *Biotechnology International*, **2012**, 24, 6-8.
11. Wang X, Saludes JP, Zhao TX, Csakai A, Fiorini Z, Chavez SA, Li J, Lee GI, Varga K, Yin H. Targeting the lateral interactions of transmembrane domain 5 of Epstein-Barr virus latent membrane protein 1. *Biochimica Biophysica Acta*, **2012**, 1818, 2282-2289. DOI: 10.1016/j.bbamem.2012.05.013. **Impact Factor: 4.960** Times Cited: 10



10. Morton LA,<sup>‡</sup> Saludes JP,<sup>‡</sup> Yin H. Constant pressure-controlled extrusion method for the preparation of nano-sized liposomes. *Journal of Visualized Experiments*, **2012**, 64, e4151. (<sup>‡</sup>contributed equally). DOI: 10.3791/4151. **Impact Factor: 1.325** Times Cited: 37
9. Dalisay DS, Saludes JP, Molinski TF. Ptilomycalin A inhibits laccase and melanization in *Cryptococcus neoformans*. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 6654-6657. DOI: 10.1111/j.1747-0285.2010.00954.x. **Impact Factor: 2.793** Times Cited: 20
8. Saludes JP, Natarajan A, DeNardo SJ, Gervay-Hague J.\* The remarkable stability of chimeric, sialic acid-derived alpha/delta peptides in human blood plasma. *Chemical Biology and Drug Design*, **2010**, 75, 455-460. DOI: 10.1111/j.1747-0285.2010.00954.x. **Impact Factor: 2.400** Times Cited: 12
7. Saludes JP, Ames JB, Gervay-Hague J. Synthesis and structural characterization of sialic acid glutamic acid hybrid foldamers as conformational surrogates of  $\alpha$ -2,8-linked polysialic acid. *Journal of the American Chemical Society*, **2009**, 131, 5495-5505. DOI: 10.1021/ja808286x. **Impact Factor: 14.612** Times Cited: 31
6. Molinski TF, Dalisay DS, Lievens SL, Saludes JP. Drug development from marine natural products. *Nature Reviews Drug Discovery*, **2009**, 8, 69-85. **Cover Feature**. DOI: 10.1038/nrd2487. **Impact Factor: 64.797** Times Cited: 1106
5. Horn EJ, Saludes JP, Gervay-Hague J. Investigation into an efficient synthesis of 2,3-dehydro-N-acetyl neuraminic acid leads to three decarboxylated sialic acid dimers. *Carbohydrate Research*, **2008**, 343, 936-940. DOI: 10.1016/j.carres.2008.01.033. **Impact Factor: 1.929** Times Cited: 17
4. Saludes JP, Lievens SC, Molinski TF. Occurrence of the alpha-glucosidase inhibitor 1,4-dideoxy-1,4-imino-D-arabinitol and related iminopentitols in marine sponges. *Journal of Natural Products*, **2007**, 70, 436-438. DOI: 10.1021/np060551o. **Impact Factor: 4.257** Times Cited: 47
3. <sup>^</sup>**Saludes JP**, Garson MJ, Franzblau SG, Aguinaldo AM. Antitubercular constituents from the hexane fraction of *Morinda citrifolia* Linn. (Rubiaceae). *Phytotherapy Research*, **2002**, 16, 683-685. DOI: 10.1002/ptr.1003. **Impact Factor: 3.092** Times Cited: 184
2. Saludes JP, Garson MJ, Franzblau SG. Chemical and antitubercular studies of *Morinda citrifolia* Linn. (Noni) fruit. *Scientific Augustinian*, **2002**, 2, 42-76.
1. Saludes JP, Vendivil W. Ethnobotany of Kiangnan: local plants with pharmacological potential. *Augustinian*, **1997**, 2, 98-112.



<sup>^</sup>**Note:** According to a report from University of Queensland in August 2016 using a global data from Scopus, this paper is always on top 12% for medicine, top 8-9% for pharmacology/toxicology and pharmaceuticals. This paper has twice as many citations as expected, two and a half times more citations than expected for articles from 2002 in *Phytotherapy Research*, and is at the top 11<sup>th</sup> percentile for its subject category.

### Publications from Conference Proceedings

12. Saludes JP, Cook BM. Curvature and lipid sensing using synthetic peptides: A paradigm shift in exosome capture strategy. *2015 International Society for Extracellular Vesicles Meeting*, Washington, DC. *Journal of Extracellular Vesicles*, **2015**, 4, 27783.

11. Contreras E, Monreal IA, Saludes JP. SialoPen: A new class of protease resistant membrane permeable peptides for intracellular biomolecule delivery. *Abstracts of Papers of the American Chemical Society*, **2015**, 249.
10. Saludes JP. Exosome capture technology based on peptide-lipid interactions. 2015 American Chemical Society Meeting, Denver, Colorado. *Abstracts of Papers of the American Chemical Society*, **2015**, 249.
9. Monreal IA, Aguilar H, Wayman G, Saludes JP. De novo designed peptides from a sugar amino acid are permeable to neuronal and HeLa cells. 2015 American Chemical Society Meeting, Denver, Colorado. *Abstracts of Papers of the American Chemical Society*, **2015**, 249.
8. Berg BS, Cook BM, Hyder JR, Godfroy JI, Yin H, Saludes JP. The transmembrane domain of prostate specific membrane antigen: Deciphering the role of the Small-XXX-Small motif in oligomerization. *Proceedings of the 106<sup>th</sup> Annual Meeting of the American Association for Cancer Research*, 2015 Apr 18-22, Philadelphia, PA, *Cancer Research*, **2015**, 75 (15 Supplement), 2456.
7. Berg BS, Cook BM, Beatty N, Berkman C, Saludes JP. The transmembrane domain of prostate specific membrane antigen: Its role in oligomerization and activation in prostate cancer and nonprostatic neovasculature. *Proceedings of the 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research*, 2014 Apr 5-9, San Diego, CA, *Cancer Research*, **2014**, 74, 19 Suppl, 3238. DOI:10.1158/1538-7445.AM2014-3238.
6. Saludes JP, Morton L, Ghosh N, Beninson L, Chapman E, Fleshner M, Yin H. Exosomes in motion: Visualizing cancer metastasis via the Synaptotagmin C2B domain. *Proceedings of the 103<sup>rd</sup> Annual Meeting of the American Association for Cancer Research*, 2012 Mar 31-Apr 4, Chicago, IL. *Cancer Research*, **2012**, 72, 8 Suppl, 4743. DOI: 10.1158/1538-7445.AM2012-4743.
5. Coulup SK, Saludes JP, Yin H. Multivalent dendrimeric peptides as new biomarker probes for the detection of cancer metastasis. In: *Proceedings of the 103<sup>rd</sup> Annual Meeting of the American Association for Cancer Research*, 2012 Mar 31-Apr 4, Chicago, IL. *Cancer Research*, **2012**, 72, 8 Suppl, 4745. DOI: 10.1158/1538-7445.AM2012-4745.
4. Saludes JP, Morton L, Ghosh N, Beninson L, Chapman E, Fleshner M, Yin H. Exosomes in motion: Visualizing cancer metastasis via the Synaptotagmin C2B domain. In: *Proceedings of the 103<sup>rd</sup> Annual Meeting of the American Association for Cancer Research*, 2012 Mar 31-Apr 4, Chicago, IL. *Cancer Research*, **2012**, 72, 8 Suppl, 4743.
3. Morton L, Saludes JP, Beninson L, Chapman E, Fleshner M, Yin H. MARCKS peptide as a probe to target microvesicles. 2012 International Society for Extracellular Vesicles Meeting, Gothenburg, Sweden. *Journal of Extracellular Vesicles*, **2012**, 1, 18179.
2. Go JG, Saludes JP, Hoch JA, Oliver JW, Gervay-Hague J. Synthesis of multivalent mimotopes as potential vaccine candidates. *Retrovirology*, **2009**, 6, P335. AIDS Vaccine 2009, Paris, France.
1. Saludes JP, Garson MJ, Franzblau SG, Aguinaldo AM. Sterols and terpenes from *Morinda citrifolia* Linn. inhibitory to Mycobacterium Tuberculosis H37Rv. *Proceedings of World Chemistry Congress*, Brisbane, Australia, July 1-6, 2001.

## **TEACHING AND MENTORING ACTIVITIES**

### **Teaching Experience as Instructor of Record at University of San Agustin**

2 <sup>nd</sup> Semester, 2018-2019	Undergraduate Chemistry Research B (UG)
1 <sup>st</sup> Semester, 2018-2019	Undergraduate Chemistry Research A (UG)
2 <sup>nd</sup> Semester, 2017-2018	Undergraduate Chemistry Research B (UG)

1 <sup>st</sup> Semester, 2016-2017	Undergraduate Chemistry Research A (UG) Organic Chemistry for Pharmacy (UG)
2 <sup>nd</sup> Semester, 2015-2016	Undergraduate Chemistry Research B (UG) Instrumental Methods of Analysis (UG)
1 <sup>st</sup> Semester, 2015-2016	Undergraduate Chemistry Research A (UG)
2 <sup>nd</sup> Semester, 2000-2003	Organic Chemistry 2 (UG, 48 hours, 96 lab hours) Organic Chemistry for MA Education (Grad, 48 hours) Instrumental Methods of Analysis (UG, 32 hours, 48 lab hours) Undergraduate Chemistry Research B (UG)
1 <sup>st</sup> Semester, 2000-2003	Organic Chemistry 1 (UG, 48 hours, 96 lab hours) Physical Science for Pharmacy (UG, 32 hours) Undergraduate Chemistry Research A (UG)
2 <sup>nd</sup> Semester, 1999-2000	General Chemistry 2 (UG, 48 hours, 48 lab hours) Organic Chemistry 2 (UG, 48 hours, 96 lab hours) Undergraduate Chemistry Research B (UG)
1 <sup>st</sup> Semester, 1999-2000	General Chemistry 1 (UG, 48 hours, 48 lab hours) Organic Chemistry 1 (UG, 48 hours, 96 lab hours) Undergraduate Chemistry Research A (UG)
Summer Term, 1998	Organic Chemistry 2 (UG, 48 hours)
2 <sup>nd</sup> Semester, 1995-1996	General Chemistry 2 (UG, 48 hours, 48 lab hours) Organic Chemistry 2 (UG, 48 hours, 96 lab hours)
1 <sup>st</sup> Semester, 1995-1996	General Chemistry 1 (UG, 48 hours, 48 lab hours) Organic Chemistry 1 (UG, 48 hours, 96 lab hours)
2 <sup>nd</sup> Semester, 1994-1995	General Chemistry 2 (UG, 48 hours, 48 lab hours) Inorganic Chemistry (UG, 16 hours, 48 lab hours)

### Teaching Experience as Instructor of Record at Washington State University

Spring Semester, 2015	Seminar in Organic Chemistry (Graduate, 16 hours, 18 students)
Fall Semester, 2014	Organic Chemistry (UG, 48 hours, Class of 142 students) Seminar in Organic Chemistry (Graduate, 16 hours, 17 students)
Spring Semester, 2014	Seminar in Organic Chemistry (Graduate, 16 hours, 22 students)
Fall Semester, 2013	Organic Chemistry (UG, 48 hours, Class of 145 students) Seminar in Organic Chemistry (Graduate, 16 hours, 14 students)

### Teaching Experience as Teaching Assistant at University of California Davis

Fall Quarter 2008	Organic Chemistry A for Health Science (UG, 30 hours, 2 Sections) Practical NMR Spectroscopy (Grad, 10 hours, 30 lab hours)
Spring Quarter 2006	Spectroscopy of Organic Compounds (Grad, 30 hours, 50 lab hours)
Spring Quarter 2005	Organic Chemistry C for Health Science (UG, 30 lab hours, 2 Sections)
Winter Quarter 2005	Organic Chemistry B for Health Science (UG, 30 lab hours, 2 Sections)
Fall Quarter 2004	Natural Products Chemistry (UG, 30 lec hours) Organic Chemistry C for Health Science (UG, 30 lab hours)
Spring Quarter 2004	Organic Chemistry B for Health Science (UG, 30 lab hours, 2 Sections)
Winter Quarter 2004	Organic Chemistry B for Health Science (UG, 30 lab hours, 2 Sections)
Fall Quarter 2003	Organic Chemistry C for Health Science (UG, 30 lab hours, 2 Sections)

### Research Supervision and Evaluation

#### Thesis or Dissertation Reviewer

1. PhD Pharmacy, **Universiti Teknologi MARA**, Shah Alam, Malaysia, November 2018. **Student:** Nazri Bin Abu, **Title:** *Biomolecular Mechanism of Tinospora Crispa Methanolic Crude Extract In*



*Improving Insulin Sensitivity Of Hepatoma G2 Cell Lines And Wistar Rats Insulin Resistance Model*

2. PhD Pharmacy, **Universiti Teknologi MARA**, Shah Alam, Malaysia, May 2017. **Student:** Nabilatul Hani Mohd Radzman, **Title:** *The Enhancement of Insulin Sensitivity by Stevioside from Stevia rebaudiana Bertoni in In vitro and In Silicon Models.*
3. PhD Biotechnology, **Universiti Malaysia Terengganu**, Kuala Neru, Malaysia, July 2019 **Student:** Noor Fazelawanie Binti Mohd Rashid, **Title:** *Simultaneous Production of Polyhydroxyalkanoate and Rhamnolipid by Pseudomonas Aeruginosa UMTKB-5 Strains Using Renewable Resources and their Characterization*
4. PhD Biotechnology, **Universiti Malaysia Terengganu**, Kuala Neru, Malaysia, July 2019 **Student:** Syed Ahmad Tajudin bin Tuan Johari, **Title:** *Effects of Gelam Honey and 5-Fluorouracil Against Human Colorectal Cancer HT-29 Cells Through In-Vitro and In-Vivo Analysis of Azoxymethane-Induced Aberrant Crypts Foci*

**Current Undergraduate and MS/MA (at USA)**

- *Michael A. Medez*, April 2016 to present. MS Medical Technology. Project: Effect of aqueous extract of *Annona muricata* L. on the phagocytic activity of blood neutrophils.

**Current MS at Centro Escolar University**

- *Allan Marc Lena*, November 2017 to Present. MS Pharmacy. Funded by Philippine Commission on Higher Education. Project: *Antibacterial Property and Chemical Composition of Marine Actinomycetes in Sediments from Islas de Gigantes, Iloilo.*
- *Analie Serafino*, September 2017 to present. MS Pharmacy. Funded by Philippine Commission on Higher Education. Project: Antibacterial Activity of Marine Sediment-Derived Actinomycete in combination with Amoxicillin and Ciprofloxacin Against *Staphylococcus aureus* ATCC 25923 and *Staphylococcus aureus* BAA-44
- *Anna Liza Jamias*, September 2017 to present. MS Pharmacy. Funded by Philippine Commission on Higher Education. Project: Antimicrobial Activity of a Marine Actinobacteria in Combination with Amoxicillin and Azithromycin Against *Staphylococcus aureus* ATCC 25923 and BAA-44
- *Vincent Militante*, September 2017 to present. MS Pharmacy. Funded by Philippine Commission on Higher Education. Project: Antibacterial Activity of a Marine Actinobacteria in combination with Amoxicillin and Chloramphenicol against *Staphylococcus aureus* ATCC 25923 and *Staphylococcus aureus* ATCC BAA-44
- *Ma. Colleen Gomiega*, August 2019 to present. MS Pharmacy. Funded by Herbanext Laboratories. Project: *In vitro* Inhibitory Activity of the Combined Extracts of *Lagerstroemia speciosa* and *Garcinia mangostana* Against  $\alpha$ -Amylase,  $\alpha$ -Glucosidase and Pancreatic Lipase

**Current MS at University of Santo Tomas**

- Klint Jun Ganancial, June 2016 to present. MS Pharmacy. Project: Antihypertensive and Vasorelaxant Activity of Noni (*Morinda citrifolia*) Fruit extracts. Funded by University of San Agustin.

**Former Research Supervised Students**

**Postdoctoral**

- *Dhananjaya Sahoo*, Dec. 2012 to Nov. 2013. Project: Synthetic studies of cationic sialic acid polymers.



**Ph.D.**

- *Abrey Monreal*, Aug. 2012 to 2016. Project: Chimeric sialic acid polymers as transmembrane delivery agents. Award: Gordon Research Conference Carl Storm Fellowship and American Chemical Society-Division of Organic Chemistry Award. Current: Postdoctoral Fellow, Cornell University, New York
- *Erickson Paragas*, Aug. 2013 to May 2015. Project: Amphipathic unnatural peptides as molecular probes. Award: WSU Chemistry Department Best First-Year Student Award. Current: Postdoctoral Fellow, Temple University, Philadelphia
- *Erik Contreras*, Aug. 2014 to May 2015. Project: Characterization of cell selectivity of SialoPen peptides. Awards: NIH Biotechnology Training Fellowship, Washington State Research Assistantship for Diverse Scholars

**M.S.**

- *Jon Ray Maglonzo*, November 2018 to December 2019. MS Biology, De La Salle University Dasmariñas. Project: Antibacterial Activity of Actinomycetes Isolated From Marine Sediments From Isla Gigantes, Iloilo Against Clinically Isolated Multi-Drug Resistant *Staphylococcus aureus* and *Pseudomonas aeruginosa*.
- *Justin Brian Chiongson*, February 2016 to March 2019. MS Chemistry, De La Salle University, Manila. Project: Synthesis of TAT Peptide Multimers. Funded by Philippine Commission on Higher Education.
- *Eric Blancaflor*, June 2016 to December 2018. MS Pharmacy, University of Santo Tomas, Manila. Project: Vascular Activity of *Styllisa massa* on Isolated Rat Aortic Rings. Funded by University of San Agustin.
- *Ingrid Wokey*, Oct. 2013 to May 2015. MS Chemistry, Washington State University. Project: Peptide mimics of lipid-sensing proteins.
- *Brandan Cook*, Aug. 2012 to May 2015. MS Chemistry, Washington State University. Project: Capture and profiling of extracellular lipid vesicles using engineered peptides. Awards: Sigma Xi Grant in Aid Research Award, Frank A. Fowler Endowed Graduate Fellowship, Jim Schenk Travel Award

**Undergraduate**

- *Anna Claudia Arenas*. June 2018-March 2019, BS Chemistry senior. Project: The Use of Acid-treated Scallop shell Powder from Islas de Gigantes for Removal of Chromium
- *Mary Grace Caligan*. June 2018-March 2019, BS Chemistry senior. Project: Raw and Calcined Waste Scallop Shells from Islas de Gigantes as Potential Adsorbing Agent of Chromium.
- *Raija Junsay*, June 2018-March 2019, BS Chemistry senior. Project: Utilization of Scallop Waste Shells from Islas de Gigantes as Adsorbent for Organic Pollutants.
- *Neaven Marcial*. June 2016 to Present, BS Chemistry senior. Project: Profiling of Essential and Toxic Heavy Metals in Commercial Philippine Herbal Teas using Atomic Absorption Spectroscopy. Award: 2<sup>nd</sup> Place, Natural Science Category, 2018 Augustinian Students Showcase of Undergraduate Research and Engagements (ASSURE).
- *Jelly Buenvenida*, *Gem Pamulag*, and *Patricia Vergara*. June 2015 to March 2016, Chemistry senior. Project: Multimerization of TAT peptide.
- *Erin Adams*, Aug. 2013 to June 2014, Chemistry senior. Project: Studies on multimeric cell penetrating peptides. Best Research Poster Award, American Chemical Society Northwest Regional Meeting, June 2014.
- *Brianna Berg*, Aug. 2012 to May 2015, Biochemistry and Chemistry junior. Project: Protein TMD oligomerization in prostate cancer. Awards: American Association for Cancer Research Science Education Award (2014-2015), WSU President's Award for Leadership (2014), Auvil Research Fellowship (2013), Boeing Cyber Grant Research Scholarship (2013-2014). Service: President –

WSU Chemistry Club, Mentor – Team Mentoring Program. Current: Postgraduate Student, University of Washington, Seattle.

- *Matthew Day*, Biology and chemistry junior, May to July 2013. Project: Synthesis of a transmembrane domain peptide.
- *Jonathan Gilvey*, Aug. 2012 to May 2013, Mechanical engineering sophomore. Project: Studies on lipid bilayer curvatures and website development
- *Jose Gomez*, May 2014 to December 2014. Project: Microwave assisted Synthesis of of amyloid- $\beta$  peptides and molecular scaffolds. Award: Louis Stokes Alliance for Minority Participation Scholarship
- *Chen Jen Hsu*, Aug. 2012 to May 2014, Chemistry junior. Project: SAR studies of ligands for 'Click' chemistry. Award: CAS summer minigrant. Current: Ph.D. student, University of Jena, Germany
- *Jack Hyder*, Aug. 2012 to May 2015, Biochemistry senior. Project: Synthesis of rationally designed cyclic peptides. Award: 2014 and 2015 SURCA Top Undergraduate Researcher Awardee in Molecular, Cellular, and Chemical Biology. Current: Researcher, Intellectual Ventures Laboratory, Seattle, Washington.
- *Laura Kelley*, Chemistry Junior, Aug. to December 2013. Project: Solid phase synthesis of amphipathic peptide.
- *Karla Martinez*, Nov. 2013 to May 2015, Chemistry freshman. Project: Designed peptide for detecting neocytes. Awards: NASA Space Grant Scholarship, McNair Scholarship, CAS Summer Minigrant, Washington State Opportunity Scholarship, Louis Stokes Alliance for Minority Participation Scholarship
- *Rabina Maskay*, Biochemistry sophomore, Aug. 2012 to May 2013. Project: Synthesis of a sialic acid derivative. Award: Boeing Cyber Grant Research Scholarship (2013).
- *Bhim Thapa*, Aug. 2012 to Dec. 2012, Microbiology post baccalaureate. Project: Identification of TM domains of prostate specific GPCR. Current: Research Assistant, WSU
- *Chris Vasil*, January 2014 to May 2015, Chemistry Junior. Project: Microwave-assisted reactions for transformation of sialic acid. Award: Auvil Research Fellowship (2014), WSU College of Science Research Fellowship (2015)
- *Kieran Witherspoon*, January 2014 to May 2015, Pre-med junior. Project: Biological studies on amphipathic cell permeable peptides. Award: Louis Stokes Alliance for Minority Participation Scholarship

### Senior High School

- *Maria Isabel L. Layson*, January 2019 to November 2019. Iloilo National High School. Project: Bioactive Component, Anti-oxidant Activity, and Antidiabetic Properties of *Muntingia calabura* Linn. (An *In vitro* Study).
- *Pete Gabriel Ledesma*, 2016-2018, Iloilo National High School. Project: Phytoreductive Hydrothermal Synthesis of Polyethylene glycol-coated Magnetic Iron oxide Nanoparticles For Drug Delivery Applications. Award: 4th Grand Award, Materials Science Category, Intel-International Science and Technology Fair, Pittsburgh, Pennsylvania, USA. May 12-19, 2018.
- *Elaine Nicole Saquin* and *Randy Molejona, Jr.* 2017-2018, Iloilo National High School. Project: Biosorption of Manganese Mine Effluents using Crude Chitin from Philippine Bivalves. Award: 3rd Grand Award, Earth and Environmental Sciences Category, Intel-International Science and Technology Fair, Pittsburgh, Pennsylvania, USA. May 12-19, 2018.

**Researchers Supervised at the Center for Natural Drug Discovery (CND3) and Development and Center for Chemical Biology and Development (C2B2)**

<b>Funding Agency</b>	<b>Name</b>	<b>Position</b>
USAID	April Dawn Tirador	Science Research Assistant
USAID and DOST CRADLE	Angelica Faith Suarez	Science Research Specialist
DOST-CRADLE	Angel Ann Juanillo	Laboratory Technician II
DOST-NRCP and Tuklas Lunas	Edna Sabido	Science Research Assistant
DOST-NRCP	Chuckcris Tenebro	Science Research Assistant
DOST-NRCP	Dana Joanne von Trono	Science Research Assistant
DOST-NRCP	Romena Franches Juanillo	Laboratory Technician
DOST-NRCP	Kimberly Tampus	Laboratory Technician
DOST-NRCP	Trisha Alexis Fabrigar	Laboratory Technician
DOST-NRCP	Charriz Amoyan	Laboratory Technician II
DOST-NRCP	Christian Daniel Fabia	Laboratory Technician II
DOST-NRCP	Julyanna Bruna	Laboratory Technician
DOST-NRCP	Joriz Lanz Cometa	Laboratory Technician
DOST-NRCP	May Octaviano	Laboratory Technician
DOST-Tuklas Lunas	Hannah Valencia	Project Assistant II
DOST- Tuklas Lunas	Dianne Frances Penuela	Project Assistant II
DOST- Tuklas Lunas	Jasmine Velo	Laboratory Technician II
DOST- Tuklas Lunas	Mary Abigael Quiachon	Laboratory Technician II
DOST- Tuklas Lunas	Sheeny Fane Leonida	Science Research Assistant
DOST- Tuklas Lunas	Diana Amago	Laboratory Technician
DOST- Tuklas Lunas	Angelica Marie Aguadera	Laboratory Technician
DOST- Tuklas Lunas	Praise Joy Ladrán	Laboratory Technician
DOST- Tuklas Lunas	Darlene Kris Alemania	Laboratory Technician
DOST- Tuklas Lunas	Jon Andre Gonzalvo	Science Research Specialist
DOST- PCHRD	Verne Lloyd Calunsag	Science Research Specialist
DOST- Tuklas Lunas	Jeffrey Wayne Maybay	University Researcher II
DOST- Tuklas Lunas	Leeman Jiggs Ambata	Science Research Specialist
DOST- Tuklas Lunas	Shyra Marie Supetran	Science Aides
DOST- Tuklas Lunas	Julia Theresa Regalado	Science Aides
DOST CRADLE	Joan Lindsay Vestidas	Science Research Analyst
DOST SEI	Aaron Joseph Macaspac	SEI CIP Scholar Trainee
DOST SEI	Jovito Ysulat Jr.	SEI CIP Scholar Trainee
DOST SEI	Carmela Vannette Vicera	SEI CIP Scholar Trainee
DOST SEI	Diane Ong	SEI CIP Scholar Trainee

**SERVICE ACTIVITIES**
**Service at University of San Agustin**

- Chair, Board of Personnel Tenure and Promotion
- Chair, Committee on the Selection of Deans and Academic Officials
- Chair, Research Endowment Fund Management Committee
- Chair, Revision of Institutional Criteria for Faculty Scholarly Work
- Chair, *Ad Hoc* Committee on Granting of *Honoris Causa* degree
- Member, Human Resources Development Committee
- Member, Board of Directors, Research and Development Foundation Inc.

- Member, Committee on the Selection of Senior University Administrators
- Member, Finance Review Committee
- Member, Budget Review Committee
- Member, Data Privacy Committee
- Member, Outstanding Alumni Award Committee
- Member, K-12 Implementing Rules and Regulations Committee
- Member, USA Institutional Sustainability Assessment
- Member, Curriculum Review for BS Chemistry, College of Arts and Sciences
- Member, Hiring Board for Faculty
- Member, Institutional Animal Care and Use Committee
- Convenor, Augustinian Students Showcase for Undergraduate Research and Engagement (ASSURE 2016, 2018)
- Convenor, 2016 Annual Conference on Architectural Research and Education (ACARE)
- Co-Chair, Organizing Committee, 1<sup>st</sup> Academia Sinica – University of San Agustin Bilateral Research Symposium, April 11-13, 2018, Taipei, Taiwan.
- Chair, Organizing Committee, Iloilo International Conference on Advanced Natural Products Technologies (I2CANProTech) and 2<sup>nd</sup> Academia Sinica – University of San Agustin Bilateral Research Symposium, April 28-10, 2019, Iloilo City, Philippines.

### **Public Service to the Philippine Government and Citizens**

- Member, Philippine National Health Research System (PNHRS) Strategic Planning Workshop, Alabang, Muntinlupa, January 24-25, 2019.
- Member, Structure, Organization, Monitoring & Evaluation Committee (SOME) of the Philippine National Health Research System (PNHRS), June 2018 to Present
- Facilitator, SOME FGD Session, PNHRS Week, Camp John Hay, Baguio City, August 6-7, 2018.
- Judge, 3<sup>rd</sup> Western Visayas Health Research Conference, Iloilo City, October 25-26, 2016.
- Panel Speaker, Education Sector Representative, Together Again, 30<sup>th</sup> DOST SEI Anniversary and Alumni Homecoming, PICC, Manila. September 27, 2017.
- Judge, Regional Health Research and Development Consortium XI and 7th Health R&D Expo Undergraduate and Professional Research Competition, Davao City, September 21-22, 2017.
- Judge, MIMAROPA HRDC Health Research Conference, Greenhills, December 9, 2016.
- Session Moderator for Health Research, 2<sup>nd</sup> National Balik Scientist Convention, Department of Science and Technology, Manila, Philippines, November 18, 2016.
- Judge, Corazon Locsin Montelibano Memorial Regional Hospital Annual Research Competition, Bacolod City, November 13, 2018.
- Judge, 1<sup>st</sup> Western Visayas Health Research Conference, Iloilo City, October 20-21, 2016.
- Trainor, Grant Proposal Writing, Corazon Locsin Montelibano Memorial Regional Hospital, Bacolod City, August 17-18, 2016.
- Trainor, Effective Professional Oral and Poster Research Presentation, Region IVb (MIMAROPA) Health Research and Development Consortium, DOST-STII, Bicutan, Taguig, Metro Manila, October 27-28, 2015.
- Trainor, Workshop on Effective Scientific Writing, Region VI Health Research Development Council, Iloilo City, October 1-2, 2015.

### **Academic and Professional Community Service**

- DOST NRCP RD Leader, West Visayas State University College of Medicine, August 2020 – July 2021
- Consultant and Trainor, Senior High School Summer STEM Camp 2019, “Transitioning from Students to Professionals”, Colegio San Agustin Binan, June 3, 2019.

- Advisor, Consultant, and Trainor, Senior High School Summer STEM Camp 2018, “Transitioning from Students to Professionals”, Colegio San Agustin Binan, June 4-8, 2018.
- Consultant, College of Medicine Research Center, Davao Medical School Foundation Inc., Davao City. July 2017 – Present.
- Co-Organizer, 2<sup>nd</sup> Academia Sinica-University of San Agustin Bilateral Research Conference and I2CANProTech, April 28-30, 2019
- Co-Organizer, 1<sup>st</sup> Academia Sinica-University of San Agustin Bilateral Research Conference, April 11-12, 2018
- Organizing Committee Member, Scientific Paper and Program Committee, 15<sup>th</sup> Asian Symposium on Medicinal Plants, Spices and Other Natural Products (ASOMPS XV 2017), UP Diliman, Manila. December 6-8, 2017.
- Trainor, Grant Proposal Writing, USA College of Health and Allied Medical Professions, University of San Agustin. September 11-12, 2017.
- Moderator, Organic Chemistry Session, Philippine Chemistry Congress, Puerto Princesa, Palawan. May 31-June 2, 2017.
- Advisor, Consultant, and Trainor, Senior High School Summer STEM Camp 2017 in Makiling - “Bringing Out the Einstein in You”, Colegio San Agustin Binan, May 22-27, 2017.
- Trainor, Action Research Proposal Writing, USA Basic Education Department, University of San Agustin. April 17, 2017.
- Inspirational Speaker, Cebu Normal University Commencement Exercises, Cebu City. March 27, 2017.
- Trainor, Grant Proposal Writing, University of Mindanao, Davao City, March 6-7, 2017.
- Trainor, Grant Proposal Writing, USA College of Commerce, University of San Agustin. February 3-4, 2017.
- Trainor, Grant Proposal Writing, Cebu Normal University, Cebu City, September 2-3, 2016.
- Convenor, 15th Annual Conference on Architectural Research and Education, Iloilo City, August 22-23, 2016.
- Trainor, Grant Proposal Writing, College of Arts and Sciences, University of San Agustin. May 5-6, 2016.
- Moderator, Biochemistry Session, 31<sup>st</sup> Philippine Chemistry Congress, Iloilo City, April 13-15, 2016.
- Trainor, Manuscript Writing for Publication in Peer-reviewed Journals, ISAT University, Lapaz, Iloilo City, December 5, 2015.
- Judge, Association of Philippine Medical Colleges Regional Competition, Iloilo City, November 14, 2015.
- Judge, University of the Philippine Visayas Graduate Research Symposium, Iloilo City, November 7, 2016.
- Trainor, Grant Proposal Writing, Carlos Hilado Memorial State College, Talisay, Negros Occidental, July 24-25, 2015.
- Co-Chair, Student Advisory Committee, American Peptide Society. Since 2014
- Editorial Board:
  - Cor Illumina* (since 2020)
  - Health Sciences Mindanao* (since March 2019)
  - Frontiers in Chemistry* – Chemical Biology Section: Review Editor (since 2015)
  - SOJ Biochemistry*. Since September 2014
  - AIMS Molecular Science*. June 2014 – May 2017
  - American Association for Cancer Research* – Chemistry in Cancer Research Section. January 2014 – December 2016
- International peer-refereed journal reviewer:
  - Malaysian Journal of Analytical Sciences* (since 2020)

*ACS Applied Polymers* (since 2020)  
*Advances in Clinical Chemistry* (since 2016)  
*Analyst* (since 2014)  
*Biomaterials Science* (since 2014)  
*Biopolymers* (since 2014)  
*Carbohydrate Research* (since 2014)  
*Chemical Biology and Drug Design* (since 2012)  
*Development Education Journal* (since 2016)  
*Health Sciences Mindanao* (since 2018)  
*Journal of Medicinal Chemistry* (since 2013)  
*Letters in Drug Design and Discovery* (since 2015)  
*Marine Drugs* (since 2015)  
*Metallomics* (since 2013)  
*Organic Letters* (since 2012)  
*The Journal of Organic Chemistry* (since 2008)

- Reviewer. IMPACT on Education Award, Boulder Valley School District, Colorado. 2011, 2013, 2014
- Reviewer. Alzheimer's Association International Research Grant Program, 2013, 2014
- Section Representative. ACS Northwest Regional Board Meeting, Corvallis, Oregon. July 2013
- Board of Referees. University of Mindanao Research and Publication Center, Philippines. 2012
- Judge. Student Research Competition, AAAS Pacific Division Annual Meetings. Las Vegas, Nevada, June 2013; Riverside, California, June 2014
- Judge. Annual Conrad Foundation Spirit of Innovation Challenge. October 2013, January 2016
- Judge. Roche Colorado Regional Science Fair. February 2011

### **Service at Washington State University**

- Panel/Advisor, Research Skills Short Course, WSU University College, Pullman, Washington, August 20, 2014.
- Mentor, WSU Boeing Cyber Grant Program for STEM students, 2013 – 2015
- Faculty Advisor. WSU Louis Stokes Alliance for Minority Participation (LSAMP), 2013 – 2015
- Member, Safety Committee, WSU Chemistry Department, 2014 – 2015
- Graduate Student Admissions Committee. WSU Chemistry Department, 2012 – 2015
- Analytical Faculty Search Committee. WSU Chemistry Department, 2013–2014
- Reviewer. WSU Auvil and Weir Undergraduate Research Fellowship, 2013, 2014
- Judge. WSU Showcase for Undergraduate Research and Creative Activity. 2013, 2014, 2015

### **Local Community Service**

- Vice President, Augustinian Cyclists Club, 2015
- Augustinian Cyclists Club, 111<sup>th</sup> Year Alumni Homecoming Tour of Iloilo, 2015
- Rider and Fundraiser. American Diabetes Association Tour de Cure. 2010, 2011, 2013, and 2014
- Carry-Out Caravan Service Provider. Boulder County Care Connect for Seniors and Adults with Disabilities. 2011 – 2012

## **SCHOLARLY ACTIVITIES**

### **Selected Oral Research Presentations**

- Plenary Speaker, Philippine Science High School Western Visayas Campus 27th Anniversary, *Science for the People: Shared aspirations of government, academia, and industry*, Iloilo City, January 22, 2019.
- Keynote Speaker, 12<sup>th</sup> Annual University Research Forum, Centro Escolar University, Mendiola, Manila. March 7, 2019.



- Invited Speaker, 8<sup>th</sup> International Conference on Postgraduate Education (ICPE-8), *GI 2020: A Philippine University's Response to IR 4.0 Towards Advanced Technologies and Capacitated Human Resources*, Kuala Terengganu, Malaysia. December 3-4, 2018.
- Invited Speaker, 30<sup>th</sup> International Symposium on the Chemistry of Natural Products, Athens, Greece. November 26-29, 2018.
- Invited Speaker, 3<sup>rd</sup> International Livestock Biotechnology Symposium, Cebu City. July 16, 2018.
- Invited Speaker, 15<sup>th</sup> Asian Symposium on Medicinal Plants, Spices and Other Natural Products (ASOMPS XV 2017), UP Diliman, Manila. December 6-8, 2017.
- Keynote Speaker, 5th International Conference on Multidisciplinary Research, Bacolod City, October 5-7, 2017
- Plenary Speaker, Regional Health Research and Development Consortium Xi and 7<sup>th</sup> Health R&D Expo, Davao City. September 21-22, 2017
- Keynote Speaker, DOST Region VI Recognition of Outstanding Scholar-Graduates, Casa Real, Iloilo City, August 30, 2017
- Plenary Speaker, 1<sup>st</sup> PSBMB Central Luzon Chapter Biotechnology Symposium 2017, Munoz, Nueva Ecija, August 24-25, 2017
- Plenary Speaker, International Cell Signaling Conference, Kuala Terengganu, Malaysia, July 24-26, 2017.
- Keynote Speaker, UNESCO National Forum on Alternative Learning System: Challenges, Best Practices and Opportunities for Sustainable Development Goal 4 – Quality Education, SEAMEO Innotech, Quezon City, July 12, 2017.
- 32<sup>nd</sup> Philippine Chemistry Congress, Puerto Princesa, Palawan, May 31-June 2, 2017.
- 25<sup>th</sup> Federation of Asian and Oceanian Biochemists and Molecular Biologists Conference, Manila, December 5-7, 2016.
- 43<sup>rd</sup> Annual Convention of Kapisanang Kimika ng Pilipinas, Los Banos, October 27-28, 2016.
- 2nd Western Visayas Health Research Conference, Iloilo City, October 20-21, 2016.
- NOSTE 2016 International Research Conference and Seminar Workshop, Cebu, October 7-9, 2016.
- 2016 CHED Higher Education Research Conference, Manila, July 26-27, 2016.
- 1<sup>st</sup> Davao Area Colleges and Universities Network (DACUN) International Conference on Multidisciplinary Research, Davao City, July 21-22, 2016.
- 13<sup>th</sup> General Membership Assembly of National Research Council of the Philippines Visayas Regional Cluster, Cebu City, May 23, 2016.
- 31<sup>st</sup> Philippine Chemistry Congress, Iloilo City, April 13-15, 2016.
- Academia Sinica, Institute of Biological Sciences, Taipei, Taiwan, April 8, 2016.
- National Taiwan University, Department of Chemistry, Taipei, Taiwan, April 7, 2016.
- DOST National Academy of Science and Technology Science Nation Tour, Philippine Science High School Western Visayas Campus, Iloilo City, February 23, 2016.
- *Pagsugidanon*, Philippine Science High School Western Visayas Campus Research Symposium, Iloilo City, January 9, 2016.
- 7<sup>th</sup> International Chemistry Congress of Pacific Basin Societies (PACIFICHEM), Honolulu, Hawaii, Dec 15-20, 2015.
- 20<sup>th</sup> Natural Products Society of the Philippines National Convention, University of Santo Tomas, Manila, December 1-2, 2015.
- 1<sup>st</sup> National Balik Scientist Convention, Department of Science and Technology, Makati, Philippines, November 27, 2015.

- Fisheries Biotechnology Symposium, 11<sup>th</sup> National Biotechnology Week, Dasmarinas, Cavite, November 26, 2015
- International Society for Extracellular Vesicles Annual Meeting. Washington DC. April 23-26, 2015.
- 249<sup>th</sup> American Chemical Society National Meeting, Denver, Colorado. March 22-26, 2015.
- University of San Diego, San Diego, California. March 12, 2015.
- Central Washington University, Ellensburg, Washington. January 26, 2015.
- Oregon State University, Corvallis, Oregon. January 15, 2015.
- University of Idaho, Moscow, Idaho. November 18, 2014.
- University of Montana, Missoula, Montana. November 17, 2014.
- Boise State University, Boise, Idaho. November 14, 2014.
- Boulder Peptide Symposium, Boulder, Colorado. September 22-24, 2014.
- De La Salle University, Manila, Philippines. August 15, 2014.
- Gifu Pharmaceutical University, Gifu, Japan. July 29, 2014.
- New Jersey City University, June 30, 2014.
- Foldamers Workshop, New York University, June 26, 2014.
- AAAS Pacific Division 95<sup>th</sup> Annual Meeting, Riverside, California, June 17-20, 2014.
- WSU Neuroscience Retreat, Pullman Washington, May 28, 2014.
- Research Center for the Natural and Applied Sciences, University of Santo Tomas, Manila, Philippines. January 17, 2014.
- Philippines Department of Agriculture PhilMech Center, Munoz, Philippines. January 16, 2014.
- University of Mindanao, Davao City, Philippines. January 8, 2014.
- Davao Doctors College, Davao City, Philippines. January 8, 2014.
- BioFrontiers Institute, University of Colorado Boulder. August 2, 2013.
- AAAS Pacific Division 94<sup>th</sup> Annual Meeting, Las Vegas, Nevada, June 16-19, 2013.
- 2013 Cougar Undergraduate Research Experience, WSU University College, Pullman, Washington, May 6, 2013.
- University of Puget Sound, Tacoma, Washington, October 30, 2012.
- Pacific Lutheran University, Tacoma, Washington, October 29, 2012.
- University of Colorado Biochemistry Retreat, Winter Park, Colorado, September 9-10, 2011.
- 26<sup>th</sup> Philippine Chemistry Congress Keynote Speaker, Cebu, Philippines, April 13-15, 2011.
- 6<sup>th</sup> Convention of the Natural Products Society of the Philippines, Manila, Philippines, December 5, 2001.
- 8<sup>th</sup> Asian Chemical Congress, Taipei, Taiwan, November 21-24, 1999.

#### **Selected Poster Presentations**

- Saludes JP, Blancaflor JMD, Sabido EM, Aguadera AMV, Alemania DKV, Amago DS, Ladrán PJC, Suarez AFL, Dalisay DS. Marine Sediment-derived *Streptomyces* sp. from Iloilo is a Source of Potential Antibiotics against Drug-resistant Pathogenic Bacteria. 24<sup>th</sup> Natural Products Society of the Philippines Annual Convention. FNRI, Bicutan, Taguig, December 5-6, 2019.
- Suarez AFL, Tirador AG, Villorente ZM, Bagarinao CF, Sollesta JVN, Dalisay DS, Saludes JP. The chemical profile of Philippine honey and its antibacterial property. Global Innovation Summit, Kyoto, Japan, July 4-6, 2017.

- Monreal IA, Dalisay DS, Wayman GA, Aguilar HC, Saludes JP. The more the merrier: C-terminus multimerization potentiates membrane permeability of the prototypical cell penetrating peptide TATp. 7<sup>th</sup> International Chemistry Congress of Pacific Basin Societies, Honolulu, Hawaii, Dec 15-20, 2015.
- Cook BM,<sup>%</sup> Saludes JP. Peptide Sensors for Lipid Nanovesicles and Exosomes. Gordon Research Conference: Chemistry & Biology of Peptides, Ventura, California, Feb. 23-28, 2014.
- Saludes JP, Gregar TQ, Monreal IA,<sup>%</sup> Cook BM,<sup>%</sup> Danan-Leon LM, Gervay-Hague J. Conformational Analysis of a Highly Bioavailable Helical Amide-linked Homooligomer of Sialic Acid, 43<sup>rd</sup> National Organic Chemistry Symposium, Seattle, Washington, June 23-27, 2013.
- Coulup SK,<sup>&</sup> Saludes JP, Yin H. Multivalent Dendrimeric Peptides as New Biomarker Probes for the Detection of Cancer Metastasis. ACS Rocky Mountain Regional Meeting 2012, Westminster, Colorado, October 17-20, 2012. (*Best Poster Award*)
- Morton LA,<sup>%</sup> Saludes JP, Fiorini Z, Beninson L, Chapman ER, Fleshner M, Yin H. MARCKS Peptide as a Probe to Target Microvesicles. 2012 International Society for Extracellular Vesicles Annual Scientific Meeting, Gothenburg, Sweden, April 18-21, 2012.
- Saludes JP, Morton L,<sup>%</sup> Ghosh N, Beninson L, Chapman E, Fleshner M, Yin H. Exosomes in motion: Visualizing cancer metastasis via the Synaptotagmin C2B domain. AACR Annual Meeting, Chicago, Illinois, March 31-April 4, 2012.
- Coulup SK,<sup>&</sup> Saludes JP, Yin H. Multivalent Dendrimeric Peptides as New Biomarker Probes for the Detection of Exosomes. AACR Annual Meeting, Chicago, Illinois, March 31-April 4, 2012.
- Saludes JP, Morton LA,<sup>%</sup> Beninson L, Chapman ER, Fleshner M, Yin H. Diverse in Design but Unified in Function: Synthetic Peptides as New Sensors of Ultramicroscopic Lipid Vesicles. Gordon Research Conference: Chemistry & Biology of Peptides, Ventura, California, February 19-24, 2012.
- Saludes JP, Morton LA,<sup>%</sup> Maslanik T, Fleshner M, Yin, H. Design and Construction of Multivalent Peptide by Copper-catalyzed Azide-alkyne 1,3-Dipolar Cycloaddition for Lipid Microvesicle Sensing. 242<sup>nd</sup> ACS National Meeting & Exposition, Denver, Colorado, August 28-Sept. 1, 2011.
- Morton L,<sup>%</sup> Saludes JP, Ghosh N, Godfroy JI, Fiorini Z, Yin H. Designing Peptides To Selectively Bind and Induce Liposome Curvature To Analyze Protein-Membrane Interactions. Frontiers of Chemistry: From Molecules to Systems, Paris, France, May 21, 2010.
- Go JG,<sup>%</sup> Saludes J.P, Hoch JA, Oliver JW, Davis D, Gervay-Hague J. Synthesis of Multivalent Mimotopes as Potential Vaccine Candidates. AIDS Vaccine 2009, Paris, France, October 19-22, 2009.
- Saludes JP, Ames JB, Gervay-Hague J. Synthesis and Structural Characterization of Sialic Acid-Glutamic Acid Hybrid Foldamers as Conformational Surrogates of  $\alpha$ -2,8-Linked Polysialic Acid. 41<sup>st</sup> National Organic Chemistry Symposium, Boulder, Colorado, June 7-11, 2009.
- Saludes JP, Gervay-Hague J. Carbohydrate-derived Molecular Scaffolds with Defined Structures. Gordon Research Conference: Chemistry & Biology of Peptides, Ventura, California, Feb 17-22, 2008.
- Saludes JP, Molinski TF. Occurrence of the  $\alpha$ -Glucosidase Inhibitors, 1,4-Dideoxy-1,4-imino-D-arabinitol, and Related Polyhydroxylated Pyrrolidines in Marine Sponges. 2005 American Society of Pharmacognosy Conference, Corvallis, Oregon, July 23-27, 2005.
- Saludes JP, Garson MJ, Franzblau SG, Aguinaldo AM. Potential Antimycobacterial Agents Isolated from the Leaves of Noni (*Morinda citrifolia* L.). *Featured paper* at the PACIFICHEM 2000, Honolulu, Hawaii, December 14-19, 2000.

<sup>#</sup>Postdoctoral student, <sup>%</sup>Graduate student, <sup>&</sup>Undergraduate student

## Students Oral Presentations

- Monreal IA,% Saludes JP. SialoPen Peptides are New Cationic Foldamers with Excellent Permeability to HeLa and Primary Neuronal Cells. 24<sup>th</sup> American Peptide Symposium, Orlando, Florida. June 21-25, 2015.
- Monreal IA,% Wayman G, Aguilar H, Saludes JP. De novo designed peptides from a sugar amino acid are permeable to neuronal and HeLa cells. 249<sup>th</sup> American Chemical Society National Meeting, Denver, Colorado. March 22-26, 2015.
- Cook BM,% Saludes JP. Efficient exosome capture strategy for disease biomarker discovery using engineered peptides. 2014 American Society for Exosomes and Microvesicles. Monterey, California. October 10-13, 2014.
- Martinez K,& Cook BM,% Saludes JP. Investigation of peptides as molecular probes for detection and capture of neocytes. Louis Stokes Alliance for Minority Participation End of the Year Celebration, Pullman, Washington, April 25, 2014.
- Cook BM,% Saludes JP. Progress on size selective lipid nanovesicle capture using engineered peptides. 2014 Volcano Conference in Chemical Biology, Pack Forest, Washington, February 28-March 2, 2014.
- Monreal IA,% Saludes JP. Unnatural Cationic Peptide Constructs from *N*-acetylneuraminic Acid Derivative Neu2en. Gordon Research Seminar: Chemistry & Biology of Peptides, Ventura, California, February 22, 2014.

%Graduate student, &Undergraduate student. Underscored names are presentors

## Students Poster Presentations

- Sabido E,% Tenebro C,% Fabrigar T, Tampus K, Saludes JP, Dalisay DS. Biogeographical Distribution of Marine-Sediment Derived Actinobacteria in Central and Western Visayas, 25<sup>th</sup> Annual Convention, Philippine Society for Microbiology Visayas Chapter, University of San Carlos, Cebu City, November 9-10, 2017, *1<sup>st</sup> Place for Best Poster Competition*.
- Tenebro C,% Sabido E,% Fabrigar T, Tampus K, Saludes JP, Dalisay DS. Marine Sediment Derived Actinobacteria from Anini-y, Antique: Depth Distribution and Their Biological Activities. 25<sup>th</sup> Annual Convention, Philippine Society for Microbiology Visayas Chapter, University of San Carlos, Cebu City, November 9-10, 2017. *2<sup>nd</sup> Place for Best Poster Competition*.
- Tirador A,% Suarez AF,% Saludes JP, Dalisay DS. Biological Profiling and Microbial Analysis of Honey in the Philippines. 25<sup>th</sup> Annual Convention, Philippine Society for Microbiology Visayas Chapter, University of San Carlos, Cebu City, November 9-10, 2017.
- Tenebro C,% Saludes JP, Dalisay DS. Antibacterial Activities of Marine Sediment Derived Actinobacteria from Nogas Island, Anini-y, Antique. 46<sup>th</sup> Philippine Society for Microbiology National Annual Convention and Scientific Meeting, Mall of Asia, Manila, July 6-7, 2017.
- Sabido E,% Saludes JP, Dalisay DS. Culture Dependent Isolation of Marine Sediment-Derived Actinobacteria from Unisan Island, Nueva Valencia, Guimaras and their Antibiotic Activities. 46<sup>th</sup> Philippine Society for Microbiology National Annual Convention and Scientific Meeting, Mall of Asia, Manila, July 6-7, 2017.
- Carisma MS, Agramon DA, Saludes JP. Energy Drinks Are Non-natural Sources of Caffeine and Taurine for High School and College Students. 32<sup>nd</sup> Philippine Chemistry Congress, Puerto Princesa, Palawan, May 31-June 2, 2017.
- Buenvenida JLE,& Pamulag GK, & Vergara PJV, & Chiongson JBV, Saludes JP. Synthesis of TAT Peptide Multimers to Enhance Antibacterial Activity. 31<sup>st</sup> Philippine Chemistry Congress, Iloilo City, April 13-15, 2016.
- Agramon DA, Carisma MS, Saludes JP. Profiling of Caffeine in Energy Drinks Preferred by Select High School and College Students in Iloilo. 31<sup>st</sup> Philippine Chemistry Congress, Iloilo City, April 13-15, 2016.

- Tolones AP,% Garson MJ, Franzblau SG, Aguinaldo AM, Saludes JP. The sterol degradation pathway in *Mycobacterium tuberculosis* is a target of secondary metabolites from Philippine plants. 7<sup>th</sup> International Chemistry Congress of Pacific Basin Societies (PACIFICHEM), Honolulu, Hawaii, Dec 15-20, 2015.
- Contreras E,% Monreal IA,% Wayman GA, Aguilar HC, Saludes JP. SialoPen: A New Class of Protease Resistant Membrane Permeable Peptides for Intracellular Biomolecule Delivery. *First Place Award*, NIH Biotechnology Training Program Genetic Engineering Symposium poster competition, WSU, Pullman, May 1, 2015.
- Hyder JR,& Berg BS,& Cook BM,% Saludes JP. The transmembrane domain of prostate-specific membrane antigen: Deciphering the role of the small-XXX-small motif in oligomerization. *First Place Award*, WSU Showcase for Undergraduate Research Creative Activities, Pullman, Washington, March 30, 2015.
- Vasil CM,& Paragas EM,% Monreal IA,% Saludes JP. Cationic amphipathic cell penetrating peptides from sugar amino acid: A new class of drug delivery agents for targeting cancer cells. WSU Showcase for Undergraduate Research Creative Activities, Pullman, Washington, March 30, 2015.
- Witherspoon K,& Paragas EM,% Monreal IA,% Saludes JP. Synthesis and characterization of fluorophore-labeled KLA peptide. WSU Showcase for Undergraduate Research and Creative Activities, Pullman, Washington, March 30, 2015.
- Contreras E,% Monreal IA,% Saludes JP. SialoPen: A new class of protease resistant membrane permeable peptides for intracellular biomolecule delivery. 249<sup>th</sup> American Chemical Society National Meeting, Denver, Colorado. March 22-26, 2015.
- Witherspoon K,& Paragas EM,% Saludes JP. Synthesis of a Model Amphipathic Peptide KLA. Louis Stokes Alliance for Minority Participation End of Semester Celebration, Pullman, Washington, December 5, 2014.
- Gomez J,& Monreal IA,% Saludes JP. Synthesis of beta-Amyloid (1-40) Peptide. Louis Stokes Alliance for Minority Participation Celebration, Pullman, Washington, December 5, 2014.
- Paragas E,% Vasil C,% Monreal IA,% Saludes JP. Silica sulfuric acid-catalyzed esterification of N-acetylneuraminic acid offers efficient and inexpensive access to Neu2en derivatives. ACS Northwest Regional Meeting, Missoula, Montana, June 22-25, 2014.
- Adams EV,& Monreal IA,% Liu Q, Aguilar HC, Saludes JP. The More the Merrier: Oligomeric Designs Improve CPP Efficiency. *Best Undergraduate Poster Award* ACS Northwest Regional Meeting, Missoula, Montana, June 22-25, 2014.
- Hyder JR,& Cook BM,% Saludes JP. Discovery of Nanovesicle-sensing Peptides as Promising Probes for Exosomes. ACS Northwest Regional Meeting, Missoula, Montana, June 22-25, 2014.
- Monreal IA,% Saludes JP. Cationic peptide constructs from unnatural amino acids as efficient cell penetrating peptides. Life Science Innovation Northwest, Seattle, Washington, June 19-20, 2014.
- Berg BS,& Cook BM,% Saludes JP. The isolated transmembrane domain of prostate specific membrane antigen is capable of oligomerization. *Honorable Mention Poster Award*, 41<sup>st</sup> Western Regional Honors Council Annual Conference, Denver, Colorado, April 11-13, 2014.
- Berg BS,& Cook BM,% Beattey N, Berkman C, Saludes JP. The transmembrane domain of prostate specific membrane antigen: Its role in oligomerization and activation in prostate cancer and nonprostatic neovasculature. 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research, San Diego, California, Apr 5-9, 2014.
- Hyder JR,& Cook BM,% Saludes JP. Exosome detection using a modified Synaptotagmin-1 derived peptide. *Second Place Award*, WSU Showcase for Undergraduate Research and Creative Activities, Pullman, Washington, March 28, 2014.

- Berg BS,<sup>&</sup> Cook BM,<sup>%</sup> Saludes JP. The isolated transmembrane domain of prostate specific membrane antigen is capable of oligomerization. WSU Showcase for Undergraduate Research and Creative Activities, Pullman, Washington, March 28, 2014.
- Adams EV,<sup>&</sup> Monreal IA,<sup>%</sup> Liu Q, Aguilar HC, Saludes JP. Studies on multimeric cell penetrating peptides. WSU Showcase for Undergraduate Research and Creative Activities, Pullman, Washington, March 28, 2014.
- Hsu CJ,<sup>&</sup> Sahoo D,<sup>#</sup> Saludes JP. Synthetic studies of new ligands for 'Click' chemistry. WSU Showcase for Undergraduate Research and Creative Activities, Pullman, Washington, March 28, 2014.
- Monreal IA,<sup>%</sup> Saludes JP. Unnatural Cationic Peptide Constructs from *N*-acetylneuraminic Acid Derivative Neu2en. Gordon Research Conference: Chemistry & Biology of Peptides, Ventura, California, February 23-28, 2014.
- Sahoo D,<sup>#</sup> Monreal IA,<sup>%</sup> Saludes JP. Rapid and facile microwave-assisted synthesis of *N*-acetylneuraminic acid congeners, ACS Regional Meeting 2013, Corvallis, Oregon, July 21-24, 2013.
- Cook BM,<sup>%</sup> Saludes JP. Progress on Size Selective Lipid Nanovesicle Capture Using Engineered Peptides, 43<sup>rd</sup> National Organic Chemistry Symposium, Seattle, Washington, June 23-27, 2013.
- Berg B,<sup>&</sup> Cook BM,<sup>%</sup> Saludes JP. Synthesis of PSMA Transmembrane Domain Peptide. Boeing Research Cyber Grant Meeting, Washington State University, Pullman, Washington, April 19, 2013.

<sup>#</sup>Postdoctoral student, <sup>%</sup>Graduate student, <sup>&</sup>Undergraduate student. Underscored names are presentors.

### Non-degree Trainings and Professional Development

- Introduction to Project Management, Project Management Institute, Ortigas Center, Pasig. August 29-30, 2019.
- Basic Pollution Control Officer Training, Pollution Control Association of the Philippines, Iloilo City. April 24-28, 2017.
- Fundamental theory and practices of high pressure liquid chromatography, Shimadzu Asia Pacific Pte., Singapore, October 20-21, 2015.
- Writing Winning Grants Seminar, Moscow, Idaho. October 16, 2014.
- Cottrell Scholars Collaborative Workshop, Washington, D.C. July 25-27, 2013.
- NIH-NIGMS Mentoring Workshop in Organic and Biological Chemistry, Dallas, Texas. June 30 – July 2, 2013.
- University of Colorado Technology Commercialization Clinic, Denver, Colorado. Fall 2011-Spring 2012.
- Nuclear Magnetic Resonance Facility Internship, University of California Davis. Fall 2008.
- Undergraduate Research Internship, Southeast Asian Fisheries Development Center, Iloilo, Philippines. April-May 1990

### Membership in Professional Organizations

- National Research Council of the Philippines (NRCP), Regular Member since 2019
- American Association for Cancer Research, since 2011
- American Association for the Advancement of Science, since 2010
- American Chemical Society, since 2004
- American Peptide Society, since 2014
- American Society for Exosomes and Microvesicles, since 2014
- Integrated Chemists of the Philippines, since 1993
- International Society for Extracellular Vesicles (*Founding Member*), since 2011



- Natural Products Society of the Philippines, since 1997
- Philippine-American Academy for Science and Engineering, since 2015
- Philippine Society for Biochemistry and Molecular Biology (*Life Member*), since 2017
- Phytochemical Society of Asia, since 2017
- Royal Society of Chemistry, London, since 2015
- Sigma Xi, The Scientific Research Society, since 2013

### Honors and Awards

- Philippine Government's Department of Science and Technology Balik Scientist (Returning Scientist) Awardee, Long-term Expert, 2015-2018 (National Award)
- College of Technology Outstanding Alumni Award, 70<sup>th</sup> Year Anniversary, University of San Agustin, 2016 (Institutional Award)
- University of San Agustin Alumni Achievement Awardee in Environment, Science and Technology, 2015 (Institutional Award)
- UC Davis Graduate Program Block Grant Award, 2007 (Institutional Award)
- IUPAC and RACI World Chemistry Congress Award Travel Award, 2001 (International Award)
- *Summa Cum Laude*, MS Chemistry, University of Santo Tomas, 1999 (Institutional Award)
- Fellow, Exchange of Scientist Scheme of the UNESCO Regional Network for the Chemistry of Natural Products in Southeast Asia, 1998-1999 (International Award)
- DOST-ESEP MS Chemistry Scholar, 1996-1999 (National Award)
- 4<sup>th</sup> Place, Philippines National Chemistry Licensure Examination, 1993 (National Award)
- *Cum Laude*, BS in Chemistry, University of the San Agustin, Philippines, 1991 (Institutional Award)
- Academic Excellence, Integrated Chemists of the Philippines-Panay Chapter, 1991 (Regional Award)
- Dean's Scholar, College of Technology, University of San Agustin, 1987-1991 (Institutional Award)
- DOST Undergraduate Scholar, 1987-1991 (National Award)
- Valedictorian, High School Diploma, University of Mindanao Tagum College, 1987 (Institutional Award)
- Salutatorian, Elementary graduate, Magugpo Pilot Central Elementary School, 1983 (Institutional Award)

### Media Feature and Press Releases

Ilonggo named as one of Asia's Top 100 scientists

<https://mb.com.ph/2021/04/29/ilonggo-named-as-one-of-asias-top-100-scientists/#close>

8 Filipino scientists recognized in Asian Scientist 100

<https://www.rappler.com/science/society-culture/filipinos-recognized-asian-scientist-100-2021>

Augustinian educator selected in Asian Scientist 100

<https://www.panaynews.net/augustinian-educator-selected-in-asian-scientist-100/>

Filipinos Listed Among 100 Outstanding Asian Scientists

<https://businessmirror.com.ph/2021/05/02/8-filipinos-listed-among-100-outstanding-asian-scientists/>

8 Pinoy scientists kasali sa '2021 Asian Scientists 100'

<https://www.bomboradyo.com/8-pinoy-scientists-kasali-sa-2021-asian-scientists-100/>

The Asian Scientist 100

<https://www.asianscientist.com/scientist/jonel-saludes/>

The Real Value Of Science Is Public Good'

<https://businessmirror.com.ph/2020/09/20/the-real-value-of-science-is-public-good/>

Two UST Graduate School alumni are 2020 Gregorio Zara awardees for Basic, Applied Science  
<https://www.ust.edu.ph/two-ust-graduate-school-alumni-are-2020-gregorio-zara-awardees-for-basic-applied-science/>

Public urged to preserve coastal, marine resources to ensure sustainability of goods, services  
<https://pia.gov.ph/news/articles/1043585>

CCC: Preserve Coastal, Marine Resources to Ensure Sustainability of Goods and Services  
<https://climate.gov.ph/news/241>

Balik Scientists Join PHL's Fight Vs Covid-19  
<https://businessmirror.com.ph/2020/05/17/balik-scientists-join-phls-fight-vs-covid-19/>

Pinoy medical experts, scientists join fight vs virus  
<https://www.manilatimes.net/2020/05/13/news/national/pinoy-medical-experts-scientists-join-fight-vs-virus/724475/>

'Balik Scientists' join frontlines in fight against Covid-19  
<https://newsbytes.ph/2020/05/12/balik-scientists-join-frontlines-in-fight-against-covid-19/>

Filipino scientists make their mark amid pandemic  
<https://www.manilatimes.net/2020/10/11/news/top-stories/filipino-scientists-make-their-mark-amid-pandemic/778928/>

Metro Iloilo COVID-19 Testing center opens with support from PGC – Visayas and Iloilo's top schools  
<https://publicservice.up.edu.ph/metro-iloilo-covid-19-testing-center-opens-with-support-from-pgc-visayas-and-iloilos-top-schools/>

iAmUPHi and UPAA initiatives against COVID-19: The story of a group of UPV alumni who helped Iloilo City fight COVID-19  
<https://www.upv.edu.ph/index.php/news/iamuphi-and-upaa-initiatives-against-covid-19-the-story-of-a-group-of-upv-alumni-who-helped-iloilo-city-fight-covid-19>

DOST-PCHRD BALIK SCIENTISTS JOIN FIGHT AGAINST COVID-19, May 16, 2020  
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Ilonggo students win US science fair

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## **Curriculum Vitae of Edna M. Sabido**

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### **Summary**

A young budding researcher with demonstrated ability to lead and train young researchers, generate reliable validated data, and present it in local and international research platforms.

#### *Expertise includes:*

- marine microbial natural product drug discovery
- microbial diversity of actinomycetes from marine sediments

#### *Skills set includes:*

- Microbiology techniques on pure culture isolation, cultivation, antimicrobial assays, antimicrobial resistance, and mode of action experiments
- Molecular biology skills such as DNA extraction, amplification using conventional and real time polymerase chain reaction (RT-PCR), align DNA sequences, and data analyses.
- Minor knowledge on natural product purification such as gel permeation chromatography and flash column chromatography.

### **Educational Background**

**West Visayas State University**, Luna St. La Paz, Iloilo City

Master of Science in Biology, 2021

Advisor 1: Jeannemar Genevive Y. Figueras, PhD., Associate Professor, West Visayas State University, Iloilo

Advisor 2: Doralyn S. Dalisay, PhD., Director, Center for Chemical Biology and Biotechnology (C2B2), University of San Agustin, Iloilo

**West Visayas State University**, Luna St. La Paz, Iloilo City

Bachelor of Science in Biology (Microbiology Track), 2016

Advisor: Cynthia Limsiaco

## **Work Experience**

- June 2, 2022- Present      **Science Research Specialist II**, Tuklas Lunas Center, Center for Chemical Biology and Biotechnology, University of San Agustin
- Achievements:*
- Senior research assistant that leads a team of junior research staff to find for new compounds with antibacterial and anticancer activities from marine sediment-derived actinomycetes from Visayan Sea.
  - Laboratory Manager, Molecular Biology Laboratory (C2B2/CND3)
- January 2021- May 2022      **University Research Associate II**, Center for Natural Drug Discovery and Development (CND3), University of San Agustin, Iloilo City
- Achievements:*
- Senior research assistant that leads a team of junior research staff to find for new compounds with antibacterial and anticancer activities from marine sediment-derived actinomycetes from Visayan Sea. (Year 4)
  - Selected as one of the official delegates of the Philippines on the 10<sup>th</sup> Global Young Scientist Summit last January 17-21, 2022 held online via Hopin platform.
  - Laboratory Manager, Microbiology Laboratory (C2B2/CND3)
- January 2019- January 2020      **Science Research Specialist I**, CND3, University of San Agustin, Iloilo City
- Achievements:*
- Project leader that leads a team of researchers to find for new compounds with antibacterial and anticancer activities from marine sediment-derived actinomycetes from Visayan Sea. (Year 2-3)
  - Presented the research study at at the Webinar on Life Sciences 2021, Univeriti Malaysia Terengganu, Malaysia and University of San Agustin, Philippines. December 12 and 19, 2020
  - Second Prize, Rapid Fire Competition, Ecology and Marine Science Cluster at the 40<sup>th</sup> PAASE Anniversary and 2020 Annual Meeting and Symposium (APAMS), Manila, Philippines. August 12, 2020.
  - Laboratory Manager, Microbiology Laboratory (C2B2 and CND3)
  - Presented the research study at the 11th Asian Network of Research Resource Centers (ANRRC). University of the Philippines, Los Baños Laguna. October 16-18, 2019
  - Participated in the Regional Research Utilization Forum, Regional Development Council Hall, NEDA VI Office, Iloilo City. September 25, 2019

- Best Poster Award (Professional Category) at the Iloilo International Conference on Advanced Natural Products Technologies. Courtyard Hotel by Marriot, Iloilo City. April 28-30, 2019.
- Laboratory manager, Molecular Laboratory (C2B2 and CND3)

December 2016-December 2018 **Science Research Assistant**, Center for Chemical Biology and Biotechnology and Center for Natural Drug Discovery and Development, University of San Agustin, Iloilo City

*Achievements:*

- Led the biology team in the large-scale production of marine sediment-derived actinomycetes and antibacterial testing to find for new compounds with antibacterial activity from marine sediment-derived actinomycetes from Visayan Sea. (*Year 1*)
- Led the biology team in the large-scale production of marine sediment-derived actinomycetes and antibacterial testing to find for new compounds with antibacterial activity from marine sediment-derived actinomycetes from Western and Central Visayas. (*Year 1*)
- First place, Best Poster at the 25th Annual Convention, Philippine Society for Microbiology Visayas Chapter. University of San Carlos, Talamban, Cebu City. November 9-10, 2018.
- Presented the research study at the:
  - 3<sup>rd</sup> Western Visayas Health Research Conference, Diversion 21 Hotel, Iloilo City. October 15-16, 2018.
  - 2018 Young Scientist Forum, College of Technology Conference Room, Blanco Hall, University of San Agustin. February 28, 2018
  - 46th Philippine Society for Microbiology National Annual Convention and Scientific Meeting at One Esplanade, Mall of Asia, Pasay City, Manila on July 6-7, 2017.

### **Intellectual Property/ Patents**

1. Dalisay, D.S., Saludes, J.P., Paderog, M.J.V., Suarez, A.F.L., \*Sabido, E.M. Isolated *Streptomyces griseorubens* and Antibiotic Anthracycline Shunt Metabolites Therefrom. *IPOPHL Application Number: 1-2021-050163*. Filing date: 15 April 2021
2. Dalisay, D.S., Saludes, J.P., \*Sabido, E.M. Isolated Bacterial Strain of the Genus *Streptomyces* and Antibiotic Metabolites Therefrom. *IPOPHL Application Number: 1-2021050164*. Filing date: 15 April 2021
3. Dalisay, D.S., Saludes, J.P., \*Sabido, E.M., Tenebro, C.P. Nutrient Medium for Actinobacteria. *IPOPHL Application Number: 2-2021-050194*. Filing date: 9 March 2021
4. Dalisay, D.S., Saludes, J.P., \*Sabido, E.M., Tenebro, C.P. Process for producing Antibiotics from Marine Actinobacteria. *IPOPHL Application Number: 2-2021-050195*. Filing date: 9 March 2021



## **Research Undertaking/s**

1. USA TLDC Phase II: Early-Stage Development of Antibiotic and Anticancer Leads from Philippine Marine *Streptomyces* (Year 1).  
Funding Agency: Philippine Council for Health Research and Development, Department of Science and Technology. June 1, 2022 – May 31, 2022
2. Metabolomics-driven Discovery of Antimicrobial Leads from Marine Sediment-Derived Actinomycetes of Iloilo (Year 4).  
Funding Agency: Philippine Council for Health Research and Development, Department of Science and Technology. January 3, 2021 – May 3, 2022
3. Metabolomics-driven Discovery of Antimicrobial Leads from Marine Sediment-Derived Actinomycetes of Iloilo (Year 3).  
Funding Agency: Philippine Council for Health Research and Development, Department of Science and Technology. January 2, 2020 – January 1, 2021
4. Metabolomics-driven Discovery of Antimicrobial Leads from Marine Sediment-Derived Actinomycetes of Iloilo (Year 2).  
Funding Agency: Philippine Council for Health Research and Development, Department of Science and Technology. January 2, 2019 – January 1, 2020
5. Metabolomics-driven Discovery of Antimicrobial Leads from Marine Sediment-Derived Actinomycetes of Iloilo (Year 1).  
Funding Agency: Philippine Council for Health Research and Development, Department of Science and Technology. January 2, 2018 – January 1, 2019
6. Marine Sediment Derived Actinobacteria from Islands in Luzon, Palawan, Mindanao and Eastern Visayas and their antimicrobial activities (Year 2)  
Funding Agency: National Research Council of the Philippines. December 1, 2017 – December 31, 2017
7. Marine Sediment Derived Actinobacteria from Islands in Luzon, Palawan, Mindanao and Eastern Visayas and their antimicrobial activities (Year 1)  
Funding Agency: National Research Council of the Philippines. December 1, 2016 – November 30, 2017

## **Publications**

6. Tenebro, C.P.; Trono, D.J.V.L.; Vicera, C.V.B.; **Sabido, E.M.**; Ysulat, J.A.Y.; Macaspac, A.J.M.; Tampus, K.A.; Fabrigar, T.A.P.; Saludes, J.P.S.; Dalisay, D.S. Multiple strain analysis of *Streptomyces* species from Philippine marine sediments reveals intraspecies heterogeneity in antibiotic activities. *Scientific Reports* **2021**, 11, 17544. <https://doi.org/10.1038/s41598-021-96886-4> **Impact Factor:** 4.996
5. Villanueva, N. S. P.; Vicera, C. V. B.; Leonida, S. F. L.; Paderog, M. J.; **Sabido, E. M.**; Saludes, J. P.; Dalisay, D. S. "*Barringtonia asiatica* Seed Extract Induces G1 Cell Cycle Arrest in *Saccharomyces cerevisiae* and Exhibits Cytotoxicity in A2780 Human Ovarian Cancer Cells", *Journal of Pharmaceutical Research International*, **2021**, 33(53A), 372-387. doi: 10.9734/jpri/2021/v33i53A33672.

4. **Sabido, EM**, Tenebro, CP, Trono, DJVL, Vicera, CVB, Leonida, SFL, Maybay, JJWB, ReyesSalarda, R, Amago, DS, Aguadera, AMV, Octaviano, MC, Saludes, JP, Dalisay, DS. Insights into the Variation in Bioactivities of Closely Related *Streptomyces* Strains from Marine Sediments of the Visayan Sea against ESKAPE and Ovarian Cancer. *Marine Drugs*, **2021**, 19(8), 441. DOI: 10.3390/md19080441. **Impact Factor:** 5.118
3. **Sabido, EM**, Tenebro, CP, Suarez, AFL, Ong, SDC, Trono, DJVL, Amago, DS, Evangelista, JE, Jr., Reynoso, AMQ, Villalobos, IGM, Alit, LDD, Surigao, CF, Villanueva, CA, Saludes, JP, Dalisay, DS. Marine sediment-derived *Streptomyces* strain produces angucycline antibiotics against multidrug-resistant *Staphylococcus aureus* harboring SCC mec Type 1 gene. *Journal of Marine Science and Engineering* **2020**, 8 (10), 734. DOI: 10.3390/jmse8100734. **Impact Factor:** 2.458
2. Chiongson, JB, **Sabido, EM**, Lin, K-G, Saludes, JP, Dalisay, DS. Multimeric TAT peptides are effective in vitro inhibitors of *Staphylococcus saprophyticus*. *Chemical Biology and Drug Design*. **2020**, 96, 1348-1354. DOI:10.1111/cbdd.13706. **Impact Factor:** 2.817
1. Paderog, MJV, Suarez, AFL, **Sabido, EM**, Low, ZJ, Saludes, JP, Dalisay, DS. Anthracycline Shunt Metabolites from Philippine Marine Sediment-Derived *Streptomyces* Destroy Cell Membrane Integrity of Multidrug-Resistant *Staphylococcus aureus*. *Frontiers in Microbiology*. **2020**. DOI: 10.3389/fmicb.2020.00743. **Impact factor:** 5.640

### **Conferences/Research Presentations**

1. **Philippine Delegate** on the 10<sup>th</sup> Global Young Scientist Summit. January 17-21, 2022 held online via Hopin platform.
2. *Streptomyces* Producing Antibiotics from Iloilo Marine Sediments: Diversity, Activity and Bioactive Molecules. **Oral Presentation** at the Webinar on Life Sciences 2021, Univeriti Malaysia Terengganu, Malaysia and University of San Agustin, Philippines. December 12 and 19, 2020
3. Exploring the Diversity and Antibiotic Potential of Iloilo Marine Sediment-derived Actinobacteria using Multilocus Sequence Analysis, Metabolomics and Bioassay-based Strategies. **Poster Presentation** at the 40<sup>th</sup> PAASE Anniversary and 2020 Annual Meeting and Symposium (APAMS), Manila, Philippines. August 12, 2020. **Second Prize, Rapid-Fire Competition, Ecology and Marine Science Cluster**
4. Exploring the Diversity and Antibiotic Potential of Actinomycetes from Iloilo Marine Sediments". **Oral Presentation** at the 11th Asian Network of Research Resource Centers (ANRRC). University of the Philippines, Los Baños Laguna. October 16-18, 2019.
5. The Renaissance of Ilosone: Discovery of New Antibiotics from Iloilo's Marine Sediment" **Oral Presentation** at the Regional Research Utilization Forum, Regional Development Council Hall, NEDA VI Office, Iloilo City. September 25, 2019
6. Metabolomics and Bioassay-based Strategies as Tools to Discover Antibiotics from Marine Sediment-Derived Actinobacteria. **Poster Presentation** at the Iloilo International Conference on Advanced Natural Products Technologies. Courtyard Hotel by Marriot, Iloilo City. April 28-30, 2019. **Best Poster Award (Professional Category)**
7. Biogeographical Distribution of Marine-Sediment Derived Actinobacteria in Central and

Western Visayas. **Poster Presentation** at 25th Annual Convention, Philippine Society for Microbiology Visayas Chapter. University of San Carlos, Talamban, Cebu City. November 9-10, 2018. **1st Place Best Poster**

8. Marine Sediments from Guimaras Island: Source of Antimicrobial Actinobacteria. **Oral Presentation** at the 3<sup>rd</sup> Western Visayas Health Research Conference, Diversion 21 Hotel, Iloilo City. October 15-16, 2018.

9. Marine Sediments from Guimaras Island: Source of Antimicrobial Actinobacteria. **Oral Presentation** at the 2018 Young Scientist Forum, College of Technology Conference Room, Blanco Hall, University of San Agustin. February 28, 2018

10. Culture Dependent Isolation of Marine Sediment- Derived Actinobacteria from Unisan Island, Nueva Valencia, Guimaras and their Antibiotic Activities. **Poster Presentation** at the 46th Philippine Society for Microbiology National Annual Convention and Scientific Meeting at One Esplanade, Mall of Asia, Pasay City, Manila on July 6-7, 2017.