桑保羅 PAUL GERALD LAYAGUE SANCHEZ, Dr. rer. nat.

Postdoctoral Fellow, Laboratory of Aquatic Zoology

Yilan Marine Research Station, Institute of Cellular and Organismic Biology, Academia Sinica

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RESEARCH EXPERIENCE

2022 – present	Prof. Kinya Ota's Lab, Yilan Marine Research Station Laboratory of Aquatic Zoology Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan developmental biology, evolutionary biology, aquatic zoology, biophysics
2021 – 2022	Postdoctoral Fellow, Swiss Government Excellence Scholarship Prof. Dr. Brigitte Galliot's Lab, Department of Genetics and Evolution Laboratory of Regeneration and Adult Neurogenesis University of Geneva, Geneva, Switzerland developmental biology, nonlinear dynamics, engineering (microfluidics)
2020 – 2021	Postdoctoral Fellow Dr. Alexander Aulehla's Lab, Developmental Biology Unit European Molecular Biology Laboratory (EMBL), Heidelberg, Germany developmental biology, nonlinear dynamics, engineering (microfluidics)
2019 – 2021	Oscillations [premiered 23 October 2021] with Iván Pérez and Jenny Mahla of the Dance Theatre Heidelberg nonlinear dynamics (oscillations) in biology and in dance documentary movie: https://youtu.be/rT5I-itcA9I
2016 – 2020	Predoctoral Fellow (PhD Student) Dr. Alexander Aulehla's Lab, Developmental Biology Unit European Molecular Biology Laboratory (EMBL), Heidelberg, Germany developmental biology, nonlinear dynamics, engineering (microfluidics)
2019	Physical Biology of the Cell Course Student Marine Biological Laboratory Woods Hole, Massachusetts, USA physical biology, projects with Jonathon Howard and Alvaro Sanchez
2018	Embryology Course Student Marine Biological Laboratory Woods Hole, Massachusetts, USA developmental biology

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2015 – 2016 **Research Assistant**

Dr. Chih-Yen King's Lab, Institute of Molecular Biology Academia Sinica, Taipei, Taiwan yeast genetics, prion (structural) biology, genomics

2014 Research Intern

Prof. Dr. Michael Boutros's Lab, Signaling and Functional Genomics (B110) German Cancer Research Center (DKFZ), Heidelberg, Germany functional genomics, cancer biology

Research Intern

Dr. Chih-Yen King's Lab, Institute of Molecular Biology Academia Sinica, Taipei, Taiwan yeast genetics, prion (structural) biology, transcriptomics, proteomics

2010 – 2011 Undergraduate Student Researcher

under the supervision of Dr. Nelson R. Villarante
Department of Physical Sciences and Mathematics (DPSM)
College of Arts and Sciences (CAS)
University of the Philippines Manila, Manila, Philippines
natural products chemistry, rational drug design (computational chemistry)

TEACHING EXPERIENCE

2011 – 2014 Junior Faculty, Lecturer and Instructor (chemistry and biochemistry)

Department of Physical Sciences and Mathematics (DPSM) College of Arts and Sciences (CAS) University of the Philippines Manila Manila, Philippines

AY 2010-2011, Summer

- Chem18.1: Fundamentals of General Chemistry II, Lab (43 students)
- Chem31.1: Elementary Organic Chemistry, Lab (23 students)

AY 2011-2012, First Semester

• Chem18.1: Fundamentals of General Chemistry II, Lab (16 students)

AY 2011-2012, Second Semester

- Chem14.1: Fundamentals of General Chemistry I, Lab (71 students)
- Chem18.1: Fundamentals of General Chemistry II, Lab (10 students)
- Chem31.1: Elementary Organic Chemistry, Lab (24 students)
- Chem40.1: Elementary Biochemistry, Lab (19 students)

AY 2011-2012, Summer

- Chem14: Fundamentals of General Chemistry I, Lecture (34 students)
- Chem18.1: Fundamentals of General Chemistry II, Lab (20 students)

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• Chem31.1: Elementary Organic Chemistry, Lab (19 students)

AY 2012-2013, First Semester

- Chem18.1: Fundamentals of General Chemistry II, Lab (41 students)
- Chem31.1: Elementary Organic Chemistry, Lab (22 students)
- Biochem34.1: Chemistry of Biomolecules, Lab (14 students)

AY 2012-2013, Second Semester

- Chem14: Fundamentals of General Chemistry I, Lecture (29 students)
- Chem14.1: Fundamentals of General Chemistry I, Lab (59 students)
- Biochem35.1: Metabolism, Lab (12 students)
- Biochem121.1: Biochemistry of the Gene, Lab (14 students)

AY 2013-2014, Summer

- Chem18.1: Fundamentals of General Chemistry II, Lab (23 students)
- Chem31: Elementary Organic Chemistry, Lecture (29 students)
- Chem31.1: Elementary Organic Chemistry, Lab (18 students)

2007 – 2011 **Volunteer Peer Tutor**

Learning Resource Center (LRC) University of the Philippines Manila Manila, Philippines

EDUCATION

2016 – 2020 PhD/Dr.rer.nat in Developmental Biology and Dynamical Systems Theory

Magna cum laude (dissertation: 1.0, oral defense: 1.0)

European Molecular Biology Laboratory (EMBL)

joint PhD with Ruprecht-Karls-Universität Heidelberg (Heidelberg University)

Thesis: Entrainment of coupled, phase-shifted signaling oscillations in the presomitic mesoderm (Supervisor: Dr. Alexander Aulehla)

doi: 10.11588/heidok.00029209

Thesis defense committee: Prof. Dr. Ulrich Schwarz (Reviewer and Chair), Dr. Justin Crocker (Reviewer), Dr. Lars Hufnagel, Prof. Dr.

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Nicholas S. Foulkes

2019 Physical Biology of the Cell Course Student

Marine Biological Laboratory Woods Hole, Massachusetts, USA

2018 Embryology Course Student

Marine Biological Laboratory Woods Hole, Massachusetts, USA

Testimonial video: https://youtu.be/zNM6xFfZ2II

2017 Certificate, Introduction to Dynamical Systems and Chaos

Complexity Explorer, Santa Fe Institute

massive open online course (MOOC) taught by Prof. David Feldman

2016 Predoc course

PhD core course in molecular systems biology European Molecular Biology Laboratory (EMBL)

Heidelberg, Germany

2012 – 2014 Graduate courses in molecular medicine

St. Luke's College of Medicine - William H. Quasha Memorial

Quezon City, Philippines

2006 – 2011 Bachelor of Science (BSc) in Biochemistry

Magna cum laude

University of the Philippines Manila

Manila, Philippines

Thesis: Partial characterization of aqueous Euphorbia hirta extract (taua

taua tea) & docking study of a flavonoid glycoside to Dengue virus

serotype 2 NS3-NS2B (Supervisor: Dr. Nelson R. Villarante)

TALKS AND PRESENTATIONS

2024 **Sanchez PGL**, Wang CY, Li IJ, Ota KG. "Rhythmic contractions of the yolk of goldfish, domesticated ornamental fish with diverse dorsoventral patterning traits", *contributed talk*, 10th Congress of the Italian Society for Evolutionary Biology (Evoluzione2024), Naples, Italy

Sanchez PGL. "On the periodic movements of the yolk of the eggs and embryos of goldfish, *Carassius auratus*", *presentation in the internal meeting of the EcoEvoDevo focus group*, Academia Sinica, Taipei, Taiwan

Sanchez PGL, Wang CY, Li IJ, Ota KG. "Rhythmic contractions of the yolk of goldfish, domesticated ornamental fish with diverse dorsoventral patterning traits", *accepted abstract for contributed talk*, 2024 Meeting of the European Evolutionary Developmental Biology Society (EuroEvoDevo2024), The Evo-Devo of Fish Biodiversity Symposium, Helsinki, Finland [could not attend because of visa restrictions]

Sanchez PGL. "Goldfish as experimental system to study evolution of/and development under strong selective pressure", *introductory talk regarding the research activities of the Laboratory of Aquatic Zoology*, visit of delegates from the French National Center for Scientific Research (CNRS) Institute of Biological Sciences (INSB), Yilan Marine Research Station, Academia Sinica, Yilan, Taiwan

- 2023 **Sanchez PGL**. "Yolk dynamics in goldfish: *independent irritability* of goldfish eggs and embryos", *presentation in the internal meeting of the EcoEvoDevo focus group*, Academia Sinica, Taipei, Taiwan
- 2021 **Sanchez PGL**. "It's a matter of time: the curious case of the vertebrate segmentation clock an intro to signaling dynamics in development and disease", *invited lecture*, Molecular Basis of Human and Plant Diseases course, University of the Philippines Manila, Philippines

- 2021 **Sanchez PGL**. "A tail of space and time: on a theory-driven understanding of the vertebrate segmentation clock", *invited lecture*, Introduction to In-Silico and Meta-Analysis Research: A Webinar for Students and Educators, Institute of Biology, University of the Philippines Diliman, virtual
 - **Sanchez PGL**, Sonnen K, Tomita T, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment of synchronized signaling oscillations in an embryonic tissue", *oral and poster presentation* (first prize), International Workshop on Mathematical Biology (IWOMB) 2021, virtual
- 2020 **Sanchez PGL**. "Top-down control of embryonic mesoderm segmentation using microfluidics-based entrainment", *invited talk*, 12th Annual Convention of the Philippine Society for Developmental Biology (PSDB), virtual
 - **Sanchez PGL**, Sonnen K, Tomita T, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment of synchronized signaling oscillations in an embryonic tissue", *accepted abstract for presentation*, Solvay Workshop on Physics of Living Systems: From Molecules To Cells To Whole Organisms, International Solvay Institutes, Brussels, Belgium [cancelled because of COVID19 pandemic]
 - **Sanchez PGL**, Sonnen K, Tomita T, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment of synchronized signaling oscillations in an embryonic tissue", *accepted abstract for contributed talk*, 12th European Conference on Mathematical and Theoretical Biology (ECMTB 2020), Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany [cancelled because of COVID19 pandemic]
 - **Sanchez PGL**, Sonnen K, Tomita T, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment enables control of oscillations during patterning in mouse embryos", *flash talk and poster presentation*, Royal Society Meeting on Interdisciplinary Approaches to Dynamics in Biology, Chicheley Hall, Milton Keynes, UK
- 2019 **Sanchez PGL**, Sonnen K, Tomita T, Mönke G, Merten C & Aulehla A. "Taming waves with pulses: controlling collective dynamics in the presomitic mesoderm using entrainment", *Developmental Biology Unit seminar*, EMBL, Heidelberg, Germany
 - **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment of signaling oscillations in mouse somitogenesis", *poster spotlight (5-min talk + poster presentation)*, qBio 2019 conference, San Francisco State University, San Francisco, California, USA
 - **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Universal entrainment principles enable control of oscillations during patterning in mouse embryos", *poster presentation* (poster prize), EMBL Lab Day, EMBL, Heidelberg, Germany
 - **Sanchez PGL**, Mikhaleva S, Ovchinnikova K & Sharan M. "Ally skills hands-on discussion", ally skills session (based on materials by Valerie Aurora and Kendra Albert) during the celebration of the International Women's Day 2019, EMBL, Heidelberg, Germany

- 2018 **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Entrainment of signaling oscillations during segmentation of the presomitic mesoderm", *Developmental Biology Unit seminar*, EMBL, Heidelberg, Germany
 - **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment of signaling oscillations during segmentation of the presomitic mesoderm", *poster presentation*, CNRS Jacques Monod Conference on Modeling Cell Fate, Station Biologique de Roscoff, Roscoff, France
 - **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Microfluidics-based entrainment of signaling oscillations in presomitic mesoderm cells", *poster presentation*, EMBO-EMBL Symposium on Biological Oscillators, EMBL, Heidelberg, Germany
 - **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Investigating signaling oscillations in vertebrate mesoderm segmentation using microfluidics-based entrainment", *Developmental Biology Unit retreat*, Leistungszentrum Herzogenhorn, Feldberg, Germany
- 2017 **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Frequency and phase modulation of oscillatory signaling in mouse PSM cells via microfluidics-based entrainment", *Developmental Biology Unit seminar*, EMBL, Heidelberg, Germany
 - **Sanchez PGL**. "Signaling oscillations and spatiotemporal wave patterns in mammalian mesoderm segmentation", scientific talk as part of European Learning Laboratory for the Life Sciences (ELLS) Visit to the University of the Philippines Manila as EMBL School Ambassador, Manila, Philippines
 - School Ambassador Diary re: the visit: https://goo.gl/VXKU1P
 - **Sanchez PGL**, Sonnen K, Mönke G, Merten C & Aulehla A. "Dynamic modulation of oscillatory signaling in the mouse PSM via microfluidics-based entrainment", *selected talk*, Workshop on Physical Concepts in Stem Cell Biology (StemPhys 2017), Niels Bohr Institute and Danish Stem Cell Center, Tisvildeleje, Denmark
- 2015 **Sanchez PGL**. "Prying into prions: an inquiry into strain variations of protein-only prions their use, their dominance, and their cellular propagation", *invited talk*, University of the Philippines Manila, Manila, Philippines
- 2014 **Sanchez PGL**, Leible S, Buljan M, Zhan T & Boutros M. "Development of targeted deep sequencing approach for identification of mutations in cell-free circulating DNA", *oral presentation*, German Cancer Research Center (DKFZ), Heidelberg, Germany
 - **Sanchez PGL** & King C-Y. "Functional analysis of SUP35 NM-domain through comprehensive monitoring of gene expression in recombinant *Saccharomyces cerevisiae*", poster presentation, Academia Sinica, Taipei, Taiwan
- 2013 **Sanchez PGL**. "Brain versus movement disorder", a lecture series on amyotrophic lateral sclerosis and X-linked dystonia parkinsonism, St. Luke's College of Medicine William H. Quasha Memorial, Quezon City, Philippines
 - **Sanchez PGL**. "Conflict of Interest and its implications to personal objectivity, scientific integrity, and public trust", *oral presentation for bioethics course*, St. Luke's College of Medicine William H. Quasha Memorial, Quezon City, Philippines

PUBLICATIONS

2024 Iglesias Ollé L, Perruchoud C, Sanchez PGL, Vogg MC, Galliot B.

The Wnt/β -catenin/TCF/Sp5/Zic4 gene network that regulates head organizer activity in Hydra is differentially regulated in epidermis and gastrodermis.

doi: 10.3390/biomedicines12061274

Ota KG, Abe G, Wang CY, Li IJ, **Sanchez PGL**, Chi TZ. Evolutionary insights into muscle fiber distribution in the twin tails of ornamental goldfish. doi: 10.1101/2024.06.03.597082

Iglesias Ollé L, Perruchoud C, Sanchez PGL, Vogg MC, Galliot B.

The Wnt/β -catenin/TCF/Sp5/Zic4 gene network that regulates head organizer activity in Hydra is differentially regulated in epidermis and gastrodermis.

doi: 10.1101/2024.04.27.591423

Miyazawa H, Rada J, **Sanchez PGL**, Esposito E, Bunina D, Girardot C, Zaugg J, Aulehla A. Glycolysis-Wnt signaling axis tunes developmental timing of embryo segmentation. doi: 10.1101/2024.01.22.576629

- 2023 **Sanchez PGL**, Wang CY, Li IJ, Ota KG. On the *independent irritability* of goldfish eggs and embryos a living communication on the rhythmic yolk contractions in goldfish (version 01). doi: 10.1101/2023.11.02.564871 *corresponding author*
- Vogg MC, Ferenc J, Buzgariu WC, Perruchoud C, **Sanchez PGL**, Beccari L, Nuninger C, Le Cras Y, Delucinge-Vivier C, Papasaikas P, Vincent S, Galliot B, Tsiairis CD. The transcription factor Zic4 promotes tentacle formation and prevents epithelial transdifferentiation in *Hydra*. doi: 10.1126/sciadv.abo0694
 - **Sanchez PGL**, Mochulska V, Denis CM, Mönke G, Tomita T, Tsuchida-Straeten N, Petersen Y, Sonnen KF, François P, Aulehla A. Arnold tongue entrainment reveals dynamical principles of the embryonic segmentation clock. doi: 10.7554/eLife.79575
- Vogg MC, Ferenc J, Buzgariu WC, Perruchoud C, Papasaikas P, Sanchez PGL, Nuninger C, Delucinge-Vivier C, Rampon C, Beccari L, Vriz S, Vincent S, Galliot B, Tsiairis CD. The transcription factor Zic4 acts as a transdifferentiation switch. doi: 10.1101/2021.12.22.473838

Sanchez PGL. Entrainment of coupled, phase-shifted signaling oscillations in the presomitic mesoderm. doi: 10.11588/heidok.00029209

Sanchez PGL, Mochulska V, Denis CM, Mönke G, Tomita T, Tsuchida-Straeten N, Petersen Y, Sonnen KF, François P, Aulehla A. Arnold tongue entrainment reveals dynamical principles of the embryonic segmentation clock. doi: 10.1101/2021.10.20.465101

Chang CY, Vila JCC, Bender M, Li R, Mankowski MC, Bassette M, Borden J, Golfier S, **Sanchez PGL**, Waymack R, Zhu X, Diaz-Colunga J, Estrela S, Rebolleda-Gomez M, & Sanchez A. Engineering complex communities by directed evolution.

doi: 10.1038/s41559-021-01457-5

- 2020 Chang CY, Vila JCC, Bender M, Li R, Mankowski MC, Bassette M, Borden J, Golfier S, Sanchez PG, Waymack R, Zhu X, Diaz-Colunga J, Estrela S, Rebolleda-Gomez M, & Sanchez A. Top-down engineering of complex communities by directed evolution. doi: 10.1101/2020.07.24.214775
 - **Sanchez PGL** & Vianello S. On the (h)edge: the germline precursors of a basal metazoa are induced at the interface between Hedgehog signalling domains. doi: 10.1242/prelights.16775
- 2019 **Sanchez PGL** & Vianello S. (Transiently) Comfortable in its own "skin": formation of epithelium-like multicellular structures in a unicellular organism through conserved actomyosin-dependent mechanisms. doi: 10.1242/prelights.9812
 - **Sanchez PGL** & Vianello S. Mind the gap: epiblast geometry at its extraembryonic boundary constrains BMP localization and ensures robust gradient formation. doi: 10.1242/prelights.6820
- 2018 **Sanchez PGL.** On the beauty and wonder of endless forms: a reflection on Embryology Course 2018. published online on *the Node* community site run by *Development* (2018). http://thenode.biologists.com/on-the-beauty-and-wonder-of-endless-forms/education/

HONORS, AWARDS, AND FELLOWSHIPS

2023 – present	Postdoctoral fellowship, Academia Sinica Postdoc Fellowship Program Academia Sinica, Taiwan
2011 – present	License as chemist Board of Chemistry, Professional Regulation Commission, Philippines
2021 – 2022	Postdoctoral fellowship, Swiss Government Excellence Scholarship Swiss Federal Commission for Scholarships for Foreign Students Swiss FCS
2020 – 2021	Postdoctoral fellowship, EMBL Bridging Postdoctoral Fellow linked to ERC-funded project CollectiveDynamics: collective signaling oscillations in embryonic patterning – revealing underlying principles
2020	Magna cum laude (dissertation: 1.0, oral defense: 1.0) PhD/Dr.rer.nat in Developmental Biology and Dynamical Systems Theory joint PhD between the European Molecular Biology Laboratory (EMBL) and Ruprecht-Karls-Universität Heidelberg (Heidelberg University)
2016 – 2020	Predoctoral fellowship, EMBL International PhD Programme linked to ERC-funded project Oscillations: oscillatory signaling dynamics – a quantitative approach to reveal their origin and function in development
2019	Scholarship to attend the PhysBio of the Cell Course in Woods Hole Arthur Klorfein Scholarship and Fellowship Fund

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2018	Scholarship awards to attend the Embryology Course in Woods Hole a. Burroughs Wellcome Fund – Embryology Course b. The Company of Biologists Ltd Scholarship – Embryology c. Helmsley Charitable Trust – Embryology d. Horace W. Stunkard Scholarship Fund
2017	Workshop/conference fellowship Workshop on Physical Concepts in Stem Cell Biology (StemPhys 2017) Niels Bohr Institute and Danish Stem Cell Center, Tisvildeleje, Denmark
2016	British Council Ambassador, IELTS Prize British Council in the Philippines
2014	International Research Fellowship (for research internship) Helmholtz International Graduate School for Cancer Research (HIGS) German Cancer Research Center (DKFZ), Germany
	International Research Fellowship (for research internship) Taiwan International Graduate Program (TIGP), Academia Sinica, Taiwan
2013	Finalist, Local Biocamp, Novartis Philippines
2011	Plaque of Recognition for Filipino Chemists The Amando Clemente Memorial Foundation, Inc. linked to ranking first in the 2011 nationwide licensure examinations for chemists in the Philippines
	1st Place, Philippine Chemistry Licensure ExaminationsBoard of Chemistry, Professional Regulation Commission, Philippines
	Magna cum laude Bachelor of Science (BSc) in Biochemistry University of the Philippines Manila
SERVICE, VOLUNTEERING, AND OUTREACH	
2024 – present	Member Philippine Society for Mathematical Biology (PSMB)
2023 – present	Thesis Adviser, Undergraduate Thesis in Biochemistry adviser of Crisandro Allen Lazo, co-supervised with Dr. Junie B. Billones

2020 - present

Member

2021 - present

Philippine Society for Developmental Biology (PSDB)

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Department of Physical Sciences and Mathematics

Philippine Association of Marine Science (PAMS)

University of the Philippines Manila

2019 – present **Signatory**

San Francisco Declaration on Research Assessment (DORA)

https://sfdora.org/read/

2023 – 2024 **Board Member**

Philippine Society for Developmental Biology (PSDB)

2023 Organizer, 15th Annual Convention of the PSDB

Philippine Society for Developmental Biology (PSDB)

2023 Organizer, MARVELous Goldfish - FINtastic Forms

Academia Sinica, Taipei, Taiwan

exhibit of the Laboratory of Aquatic Zoology for the 2023 Open House

Organizer, 2023 PSDB Masterclass

Philippine Society for Developmental Biology (PSDB)

masterclass (lecture and hands-on workshop) on plant and animal

developmental biology (and pedagogy) for educators

Organizer, 2023 PSDB Webinar Series

Philippine Society for Developmental Biology (PSDB) webinar series on plant and animal developmental biology

2022 Organizer, Skeletal Staining Exhibit

Academia Sinica, Taipei, Taiwan

exhibit of the Laboratory of Aquatic Zoology for the 2022 Open House

2021 Oscillations [premiered 23 October 2021]

with Iván Pérez and Jenny Mahla of the Dance Theatre Heidelberg

a trans-disciplinary collaboration (2019-2021) comparing and contrasting

oscillations in embryonic development and in dance introductory video: https://fb.watch/6c542xzCkx/documentary movie: https://youtu.be/rT5I-itcA9I

2021 Contributor, Promo Video for the Swiss Gov't Excellence Scholarships

with the Embassy of Switzerland in the Philippines

https://fb.watch/adccA70lme/

Judge, Best Undergraduate Thesis in Biology

Department of Biology, University of the Philippines Manila

2019 – 2021 preLighter, Contributor

with Stefano Vianello

preLights: preprint highlights, selected by the biological community

The Company of Biologists

2019 Volunteer/Instructor, EMBL Summer School for Undergraduates

with the EMBL International PhD Programme Graduate Office

summer program targeting advanced undergraduate students in chemistry,

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physics, engineering, mathematics and computer sciences

2019 Organizer, LGBT+ STEM Day at EMBL

EMBL Equality and Diversity Committee and EMBL Staff Association international day of LGBTQ++ in science, technology, engineering, & math

Organizer, Bake Sale for International Day Against Homophobia, Transphobia, and Biphobia (IDAHOTB)

EMBL Equality and Diversity Committee and EMBL Staff Association fundraising event for KOSI.MA, a sexually-transmitted infections-related support and testing center in Mannheim, Germany

Facilitator, Ally Skills Hands-On Discussion

with the Equality and Diversity Committee & Staff Association European Molecular Biology Laboratory (EMBL) ally skills session during the International Women's Day 2019

2018 - 2019 LGBTQ++ Community Representative

Equality and Diversity Committee European Molecular Biology Laboratory (EMBL)

2018 Graduate Student Committee, EMBL Benefit Gala

with the EMBL International PhD Programme Graduate Office and EMBL Office of Resource Development fundraising event for The EMBL Summer School for Undergraduates

Organizer, LGBT+ STEM Day at EMBL

EMBL Equality and Diversity Committee and EMBL Staff Association international day of LGBTQ++ in science, technology, engineering, & math

2017 Organizer, Inaugural Rainbow Beer Session

EMBL Equality and Diversity Committee and EMBL Staff Association inaugural get-together of LGBTQ++ at EMBL, their friends, and their allies

2017 Organizer, 19th EMBL PhD Symposium

Bridging the Gaps: Interdisciplinary Approaches in Life Sciences Heidelberg, Germany

Coordinator, Basic Teaching Module of EMBL Predoc Course 2017

EMBL International PhD Programme (EIPP)

coordinated and organized the first teaching module of predoc course – PhD core course in molecular systems biology

2013 – 2015 RITM-AIDS Research Group (ARG)-trained Educator and Counselor

LoveYourself, Inc. with the Research Institute for Tropical Medicine (RITM) actively advocated for HIV awareness, education, screening, and counseling, especially for at-risk populations in the Philippines

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2010 Medico-Legal Trainee

Forensic Service, National Bureau of Investigation (NBI), Philippines

2009 – 2010 **Vice President for Internal Affairs**

University of the Philippines Biochemistry Society University of the Philippines Manila

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