

CURRICULUM VITAE, Rodriel A. Bautista, B.S.

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EDUCATION

2021-Present	University of Texas Health Science Center, San Antonio	M.S Immunology & Infection	In Progress
2014-2018	University of California, Santa Cruz, Santa Cruz, CA	B.S. Molecular, Cell, and Developmental Biology	Dean's Honors Sp. 2018

PRINCIPAL POSITIONS HELD

2019-2021	University of California, San Francisco, San Francisco, CA	Staff Research Associate	Woodruff Lab
2018-2019	Comparative Biosciences Inc. Sunnyvale, CA	Research Associate I	Pharmacology and Toxicology Department
2017-2018	University of California, Santa Cruz, Santa Cruz, CA	Undergraduate Research Assistant	Sison-Mangus Lab

RESEARCH EXPERIENCE

University of California, San Francisco

Woodruff Lab

- Executing clinical research studies focusing on airway remapping, molecular phenotyping, and identifying immunological factors of airway inflammation for respiratory diseases in asthma and COPD (SPIROMICS, SEARCH, and ACE)
- Conducting miRNA and RNA experiments to quantify collected specimens (blood, bronchial brushings, and Treg cells) from study visits
- Performing stereological mucin analysis and data interpretation
- Engaging in collaborative work with various clinical and biological institutions to solve processing problems, optimize protocols, and share samples and data
- Processing of human sputum, blood, bronchoalveolar lavage fluid, bronchial brushings, and lung biopsies
- Conducting histological preparation for lung biopsies including fixation, paraffin sectioning, cryostat sectioning, and immunohistochemistry
- Creation and implementation of a one month training program for new lab members

Comparative Biosciences Inc.

Pharmacology and Toxicology Department

- Lead biologist and researcher for pharmacokinetic, pharmacodynamic, efficacy, and toxicology preclinical trials
- Experience in handling in-vivo models including mice, rats, rabbits, pigs, dogs, and immunocompromised rodents

- Planned and executed multiple study trials at a time, creation and revision of Standard Operating Procedures (SOPs), IACUC proposals and amendments, creation of data collection forms, and data quality control
- Managed study animals, conducted specimen collection, drug administration, assisted in surgical procedures, record keeping, and data entry
- Maintained cancer cell-lines, and assisted in histological work including grossing, embedding, paraffin sectioning, slide preparation, and immunohistochemistry

University of California, Santa Cruz

Sison-Mangus Lab

- Conducted independent research project focusing on the effects of microbiota on diatom silicification and growth
- Assisted in carrying out various experiments focusing on interactions between bacteria and their aquatic hosts (phytoplankton and daphnia) to aid graduate student experiments and lab projects
- Maintained liquid cell cultures of phytoplankton species, carried out ocean water filtration, sterilized glassware and media for aseptic procedures, and maintained stock for lab materials

COMMUNITY SERVICE

Stanford Healthcare Volunteer- Stanford Outpatient Clinic Redwood City, CA 2017-2018

- Assisted in the needs of the hospital, tending to patients, and guiding patients to proper facilities
- Clerical duties answering phone calls, tending to patient inquiries, and helping solve logistical issues

RESEARCH INTERESTS

- Immunology, Physiology, Pharmacology, Biologics, Vaccine Development, Drug Development, Inflammation, Disease Mechanisms, Host/Pathogen Interactions, Clinical Research, Human Diseases

PUBLICATIONS

1. Epithelial miR-141 Regulates IL-13-Induced Airway Mucus Production. Siddiqui, S., Johansson, K., Joo, A., Bonser, L.R., Duk Koh, K., Le Tonqueze, O., Bolourchi, S., **Bautista, R. A.**, Zlock, L.T., Roth, T.L., Marson, A., Bhakta, N.R., Ansel, M., Finkbeiner, W.E., Erle, D.J., Woodruff, P.G. JCI Insight. 2021 Mar 8;6(5). PMID:33682796

PRESENTATIONS

1. **Bautista, R.**, Kempnich, M., Sison-Mangus, M. (2018) "Microbiota Effects on Diatom Silicification and Growth" Presented at UCSC Undergraduate Research Symposium 2018

PROFESSIONAL DEVELOPMENT

- Nov 2021 **Team Science Training** Interactive workshop focusing on bettering dynamics of working and collaborating in teams in GSBS
- Sep 2021-Oct 2021 **GSBS Interprofessional Education (IPE)** Educational course focused on improving collaboration between interdisciplinary fields

RELEVANT COURSEWORK

University of California, Santa Cruz 2014-2018

- Human Physiology, Studies in Medicine, Intro to Neuroscience, Microbiology/Lab, Cell Biology, Molecular Biology/Lab, Biochemistry, Genetics, Organic Chemistry/Lab, Intermediate Organic Chemistry and Applications to Biology, Human Genome, Physics, General Biology, General Chemistry/Lab, Statistics, Calculus

Coursera 2020

- Fundamentals of Immunology: Innate Immunity and B-Cell Function, Fundamentals of Immunology: T Cells and Signaling

INFORMAL TEACHING

- 2019-2021 **University of California, San Francisco** Supervision and teaching of histology and RNA extraction techniques to neighboring labs and other lab members
- 2018-2019 **Comparative Biosciences Inc.** Supervision and teaching of in-vivo handling, dosing, tissue collection, and histology techniques to new lab members