

Roberto Efraín Díaz

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| Contact | (954) 805-9663 | roberto.diaz@ucsf.edu rediaz.science |
| Current | PhD Candidate, Biochemistry and Molecular Biology TETRAD Graduate Program, University of California, San Francisco Thesis Advisor: Professor James S. Fraser | |
| Research Interests | mammalian chitinases, dynamic structural biology, enzymology, diversity, equity, inclusion, and justice | |
| Education | University of Miami, Coral Gables, FL B.S. in Neuroscience, May 2017 General Honors Program Departmental Honors in Neuroscience Thesis: Modifying transcription factor CREB with transactivation domains VP16 and VP64 to increase neurite outgrowth Thesis Advisor: Professor Vance Lemmon | |
| Publications | 1. Ricardo-Gonzalez RR, Kotas ME, Tenvooren I, Marquez DM, Fassett MS, Lee J, Daniel SG, Bittinger K, Díaz RE , Fraser JS, Ansel KM, Spitzer MH, Liang HE, and Locksley RM. (2021). Type 2 innate immunity regulates hair follicle homeostasis to control Demodex pathosymbionts. <i>doi: 10.1101/2021.03.29.437438</i> | |
| ORCID: 0000-0002- 1172-9919 | 2. Schuller M, Correy GJ, Gahbauer S, Fearon D, Wu T, Díaz RE , Young ID, Carvalho Martins L, Smith DS, Schulze-Gahmen U, Owens TW, Deshpande I, Merz GE, Thwin AC, Biel JT, Peters JK, Mortiz M, Herrera N, Kratochvil HT, QCRG Structural Biology Consortium, Aimon A, Bennett MJ, Brandao Neto J, Cohen EA, Dias A, Douangamath A, Dunnett L, Fedorov O, Ferla PM, Fuchs M, Gorrie-Stone JT, Holton MJ, Johnson GM, Krojer T, Meigs G, Powell JA, Rack J, Rangel LV, Russi S, Skyner ER, Smith AC, Soares SA, Wierman LJ, Zhu K, O'Brien P, Jura N, Ashworth A, Irwin J, Thompson MC, Gestwicki JE, von Delft F, Shoichet BK, Fraser JS, Ahel I. (2021). Fragment binding to the Nsp3 macrodomain of SARS-CoV-2 identified through crystallographic screening and computational docking. <i>doi: 10.1126/sciadv.abf8711</i> | |
| | 3. Hoagland P, Kirkpatrick B, Jin D, Kirkpatrick G, Fleming L, Reich A, Ullmann SG, Beet A, Hitchcock G, Kohler K, Li ZC, Garrison B, Díaz RE , Lovko V. (2020). Lessening the hazards of Florida Red Tides: a common sense approach. <i>doi: 10.3389/fmars.2020.00538</i> | |

4. Barad BA, Liu L, **Díaz RE**, Basilio R, Van Dyken SJ, Locksley RM, Fraser JS. (2020). **Differences in the chitinolytic activity of mammalian chitinases on soluble and crystalline substrates.**
doi: 10.1002/pro.3822

5. **Díaz RE**, Friedman MA, Jin D, Beet A, Kirkpatrick B, Reich A, Kirkpatrick G, Ullmann SU, Fleming LE, Hoagland P. (2019). **Neurological illnesses associated with Florida red tide (*Karenia brevis*) blooms.**
doi: 10.1016/j.hal.2018.07.002

Honors and Awards

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| TETRAD Diversity, Equity, and Inclusion Spotlight Award | 2021 |
| Dean's Award for Excellence in Mentoring for Graduate Students and Postdoctoral Scholars | 2021 |
| Dean's Award for Excellence in Mentoring for Graduate Students and Postdoctoral Scholars Honorable Mention | 2020 |
| Howard Hughes Medical Institute Gilliam Fellow | 2019-2022 |
| Ford Foundation Predoctoral Fellowship Honorable Mention | 2019 |
| NSF Graduate Research Fellowship | 2018-2023 |

Diversity and Outreach

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| UCSF LGBTQ Committee - Member | 2021-2022 |
| LGBTQ Student Association - Graduate Division Representative | 2019-Present |
| Trans Visibility in the Sciences - Steering Committee | 2019-Present |
| Graduate and Postdoc Queer Alliance - President | 2019-Present |
| Out in Science - Steering Committee | 2018-Present |
| Out in Science - Moderator | May 2019 |
| Diversity and Allyship Breakfast - Co-Organizer | 2019 |
| Graduate and Postdoc Queer Alliance - Vice President | 2018-2019 |
| Associated Students of the Graduate Division - Diversity Representative | 2018-2019 |
| Diversity Network Initiative - Co-Founder | 2018 |
| Petition to SACNAS National - Co-Writer | 2018 |

Talks and Presentations

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| Crystallographic fragment-based drug discovery against SARS-CoV-2 | July 2021 |
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| | U.S. Department of Energy Summer Undergraduate Lab Internship | |
| | Crystallographic fragment-based drug discovery against SARS-CoV-2 Metas Program at Contra Costa College | April 2021 |
| | Crystallographic fragment-based drug discovery against SARS-CoV-2 California State University, Stanislaus | March 2021 |
| | The Science & People of 500 Queer Scientists California Academy of Sciences | June 2020 |
| | Improving LGBTQ+ Inclusion in Scientific Conferences STEM Village | May 2020 |
| Press and Media | My Fave Queer Chemist Podcast - Interview | June 2020 |
| Service | Program Manager for Diversity and Outreach of UCSF Graduate Division - Search Committee | December 2020 |
| | Graduate Division Task Force | June 2020-August 2021 |
| | Diversity and Allyship Breakfast - Panelist | 2018-2019 |
| | Queer Institute - Panelist | March 2020 |
| | Assistant Director of UCSF LGBT Resource Center - Search Committee | August 2019 |
| | Assistant Director of UCSF Multicultural Resource Center - Search Committee | August 2019 |
| | UC LEADS Panel - Panelist | August 2018 |
| | NIH Bridges to Baccalaureate - Panelist | July 2018 |
| | Director of UCSF Student Health and Counseling Services - Search Committee | June 2018 |
| Mentorship | Mentored 4 students applying to NSF Graduate Research Fellowship <ul style="list-style-type: none"> • 1 fellowship award (V.S.) - 2018 • 1 honorable mention (M.A.C.) - 2018 Mentored 4 students applying to HHMI Gilliam Fellowship Mentored 1 student applying to NIH F31 <ul style="list-style-type: none"> • 1 fellowship award (M.A.C.) - 2021 | |

Mentored 1 student applying to Ford Foundation Predoctoral Fellowship

Peer Review

Current Opinions in Structural Biology

Journal of Visualized Experiments

PLOS Computational Biology