

EDGARDO LUIS SANABRIA-VALENTIN, PH.D.

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SUMMARY OF QUALIFICATIONS

- Award winning Higher Education administrator in STEM who is passionate about providing opportunities to my students so they can develop into successful scientists because I am a fierce advocate for justice, diversity and inclusion in STEM.
- Ph.D. microbiologist/molecular geneticist, with experience in increasing the participation of underrepresented minorities in careers in STEM, academic/career advising, entrepreneurship and technology development.
- Extremely organized, with excellent communication, interpersonal and teamwork skills. Fluent in English and Spanish languages.

EXPERIENCE

John Jay College of Criminal Justice, New York, NY 2014-Present

John Jay is one of the largest HSI in the Northeast of the US, where we educate "Fierce Advocates for Justice". Program for Research Initiatives in Science and Math (PRISM), Department of Sciences

Associate Program Director and Research Coordinator

Pre-Health/Pre-Professional STEM Advisor Lead

Adjunct Assistant Faculty

- Secured ~\$1.25M grant from NYSED-CSTEP to increase support to our undergraduate research program. Under that grant, developed a new program, the Junior Scholars, aimed at increasing retention of URM STEM undergraduates on their first two years at John Jay.
- Manage a \$500K/year budget in US-DoE Title V and NYSED grant funds for our PRISM Undergraduate Research Program and Junior Scholars Program.
- Redesigned and formalized our diverse initiatives into programs focused on the development of our students as scholars and science professionals.
- Monitor program participants' research projects and experiences and coach participants to present research at national meetings, leading to an increase in the number of awards at national research conferences.
- Collaborate in program assessment and grant and progress report writing.
- Assist students in preparing to apply to graduate programs, develop professional development activities, and coordinate seminars and professional school visits.
- Coach students interested in the health professions through their time at John Jay, providing both targeted academic advising and preparing them for the admission process.
- Member of the "John Jay 2020" Strategic Planning and Implementation Committees, the 2014 JJC Graduate School Fair Organizing Committee, the Office of Student Research & Creativity Advisory Board, Chair of the Health Professions Advisory Committee, and various search committees.
- Lead a team of six full- and part-time staff coordinators, grant managers, and academic advisors.
- Organize the annual PRISM Undergraduate Research Symposium, with over 50 research presentations and >200 guests.

Indigo Agriculture (Formerly Symbiota), Cambridge, MA **2013-2014**
Indigo is pioneering agriculture with the power of symbiosis.

VentureLabs Entrepreneurial Fellow

- Helped establish Symbiota’s intellectual property infrastructure, submitting >70 patent applications in 2 weeks.
- Coordinated ordering, building relationships and negotiating with suppliers.
- Project manager for Lab and Greenhouse launch and set-up.

Sample6 Technologies (formerly Novophage), Boston, MA **2010-2013**

Sample6 has developed the world’s first synthetic-biology based bacterial diagnostic system capable of enrichment-free detection of as low as 1CFU/ml in just a few hours.

Field Applications Scientist 2013

Staff Scientist 2011-2013

Scientific Consultant 2010-2011

Field Applications, Project Management and Customer Responsibilities

- Project manager for the “Alpha” pilot program for product testing. Interacted with pilot partners to obtain test samples and train future users.
- Designed and evaluated early-stage technology and key product functions to assess usability and performance for the development of a bacteria diagnostic system.
- Performed work that led to securing an SBIR Phase-I and SBIR-1B award. Collaborated on target market decisions. Provided scientific data to help secure A-Round financing (Novophage).
- Contributed to writing Intellectual property, technical documents/reports, SOPs, and presentations of scientific data

Scientific Responsibilities

- 1st employee and scientist hired for Sample6, where I validated their first product internally and on-site at partner locations (food producers).
- Designed and performed detection assays to evaluate different enzymatic payload candidates for the engineering pipeline (biofilm dispersal enzymes for Novophage and luciferase variants for Sample6 pathogen-detection product).
- Internally collaborated on design of a core genetic engineering platform to modify candidate phages.

LEADERSHIP EXPERIENCE

John Jay College of Criminal Justice 2014-Present

- “My Brother’s Keeper” Advisory Board
- John Jay 2020 Institutional Strategic Planning and Implementation Committees
- 2014 Graduate and Professional School Fair Organizing Committee
- Health and Justice Forum Organizing Committee
- Chair, Health Professions Advisory Committee
- *Ex officio* member, Office for Student Research & Creativity Advisory Board

The Leadership Alliance Alumni Association 2013

- Founding member Alumni Association, Northeast Outreach Coordinator
- Professional Career Coach, 2018 Career development Workshop
- National Symposium Advisory Board

Harvard University, Cambridge MA 2010

- Director, Microbial Sciences Initiative-Undergraduate Fellows Summer Program

NYU-Sackler Institute 2003-2006

- Graduate coordinator, Summer Undergraduate Research Program
European Career Fair – MIT European Club 2010
- Team Member and Event Coordinator
New York City Minority Graduate Student Network, New York, NY 2006-2007
- Founding member and Co-Chair

EDUCATION

- New York University**, New York, NY 2008
Ph.D. Basic Medical Sciences, Sackler Institute of Graduate Biomedical Sciences
- Lipopolysaccharide modification strategies of *Helicobacter pylori* during persistent colonization.
- Universidad de Puerto Rico**, Mayagüez, PR 2002
B.S., Industrial Microbiology, Summa Cum Laude
- 2019

HONORS AND AWARDS

- President's Award, Association of Program Administrators of CSTEP & STEP 2018
- E. Kika de la Garza Fellow, USDA 2017
- The Leadership Alliance Doctoral Scholar 2008
- Clinical Microbiology and Infectious Diseases Young Scientist Award. 14th Int'l Workshop on *Campylobacter*, *Helicobacter* and Related Organisms 2007
- National Research Service Award, NIH/NIGMS (F31) 2002-2007
- American Society Microbiology-Minority Undergraduate Research Fellowship 2001
- Frank G. Brooks Award for Excellence in Student Research, $\beta\beta\beta$ National Biology Honor Society, Caribbean Division 2001
- MARC U*STAR Undergraduate Fellowship 2000-2002

SELECTED PUBLICATIONS

- SANABRIA-VALENTÍN E., 2016. MSI Perspectives on the 2016 Presidential Election: What MSIs Can Do Next. MSIs Unplugged. <https://msisunplugged.com/2017/02/09/msi-perspectives-on-the-2016-presidential-election-what-msis-can-do-next/>
- POWERS, M.J., E. SANABRIA-VALENTIN, A.A. BOWERS, & E.A. SHANK. 2015. Inhibition of Cell Differentiation in *Bacillus subtilis* by *Pseudomonas protegens*. J Bac, JB-02535.
- SANABRIA-VALENTÍN E., 2013. How to Think like a Bug. Sample6 Blog. <http://blog.sample6.com/blog/bid/327467/How-to-Think-Like-a-Bug>
- ROMERO D., E. SANABRIA-VALENTÍN, H. VLAMAKIS, R. KOLTER. 2013. Biofilm inhibitors that target amyloid proteins. Chem Biol 20(1):102-110
- ANABRIA-VALENTÍN E., 2005. The New Scientific Method: Purpose (Make money), Hypothesis (Make Money), Method (Make money), Results (Make Money). Business Today Magazine 42(2):44-45.

SELECTED ABSTRACTS/PRESENTATIONS

- ORAL PRESENTATION: **Beyond the Bench: Training Students to Become Science Communicators**, 2019 APACS Conference, Albany, NY, June 13, 2019.
- ORAL PRESENTATION: **Preparing your Personal Statement for Professional School Applications**, 2016 CSTEP Conference, Lake George NY, April 2016.
- ORAL PRESENTATION: **The Biology of Biofilm Formation**. "Medical device-biological interactions at the material-tissue interface" The Institute for Mathematics and Its Applications, University of Minnesota, September 2010.