

# FY22 ANNUAL REPORT



UNIVERSITY OF MIAMI  
MILLER SCHOOL OF MEDICINE

DEPARTMENT of PUBLIC  
HEALTH SCIENCES



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# AT-A-GLANCE

## MISSION

DPHS yields sustainable, positive changes in global health by providing outstanding research, teaching, and service programs to nurture the next generation of public health leaders who endeavor to discover, test, and disseminate solutions to health threats.

## STUDENTS

212 Master's  
221 MD/MPH  
46 Ph.D.

Total Students: **479**

## FACULTY

41 Primary Faculty  
82 Secondary, Voluntary  
and Emeritus Faculty

Total Faculty: **123**

## STAFF

85 Research/Faculty  
Support Staff  
14 Graduate Programs  
and Central  
Administration

Total Staff: **99**

Total Students, Faculty and Staff:

**701**



# INSTITUTIONAL & NATIONAL RANKINGS

National Institutes of Health research grants are vital for advancing research that leads to a greater understanding of a wide variety of diseases and public health issues.

**#1**



- ▶ The Miller School of Medicine is the No. 1 most NIH-funded institution in Florida.

(Source: Blue Ridge Institute for Medical Research)

**#4**



- ▶ Out of 28 departments within the Miller School of Medicine, the Department of Public Health Sciences is the 4th most NIH-funded.

(Source: Blue Ridge Institute for Medical Research)

**#5**



- ▶ The Department of Public Health Sciences ranks No. 5 out of the top 10 highest NIH funded departments within the University of Miami.

(Source: UM's Office of Research Administration)

# #11



- ▶ Among 46 public health departments nationwide, DPHS ranks 11th in NIH funding.

(Source: Blue Ridge Institute for Medical Research)

# #22



- ▶ DPHS favorably ranks 22nd out of 66 in best NIH-funded Schools of Public Health, despite being structured as a department in a school of medicine.

(Source: Blue Ridge Institute for Medical Research)

# #43



- ▶ The University of Miami Miller School of Medicine ranks number 43 in the U.S. News & World Report's 2023 Best Medical Schools: Research rankings.

(Source: U.S. News & World Report)

# #50



- ▶ The Department of Public Health Sciences ranks number 50 in the U.S. News & World Report's 2023 Best Public Health Schools rankings.

(Source: U.S. News & World Report)

# #55



- ▶ According to the U.S. News & World Report's 2022 Best National Universities rankings, the University of Miami ranks number 55 among the best universities in the U.S.

(Source: U.S. News & World Report)

# #49



- ▶ The Department of Public Health Sciences ranks number 49 in the U.S. News & World Report's 2023 Best Ph.D. in Biostatistics Programs rankings.

(Source: U.S. News & World Report)

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# FINANCIAL PERFORMANCE



NEW AWARDED TOTAL GRANTS & CONTRACTS

**\$20,691,665.00**

TOTAL GRANT EXPENDITURES

**\$17,244,044.00**

FY22 – generated ~\$9.3M in  
tuition received by the University  
of Miami.

# ACADEMIC PROGRAMS

## 6

### Master's Programs

- ▶ MPH
- ▶ MSPH
- ▶ 4 +1 BSPH MPH/MSPH
- ▶ MS in Biostatistics
- ▶ MS in Prevention Science and Community Health
- ▶ MS in Climate and Health
- ▶ Online MPH (In Development) — Tentative Launch Date: Spring 2024

## 5

### Joint Degrees

- ▶ MD/MPH
- ▶ MPH/MPA
- ▶ MPH/MAIA
- ▶ MPH/MALAS
- ▶ MPH/JD

## 3

### Doctoral Programs

- ▶ Ph.D. in Biostatistics
- ▶ Ph.D. in Epidemiology
- ▶ Ph.D. in Prevention Science and Community Health

## 2

### Graduate Certificates

- ▶ BEAM Certificate
- ▶ Public Health Graduate Certificate



# AWARDS & HONORS



## PRESIDENT FRENK

In all his work, President Frenk has been guided by the belief that evidence should underpin policy.

Our highly qualified, experienced and diverse faculty receive state, national, and international accolades for their public health work.

— Dr. Mariano Kanamori was named one of the recipients of the 2021 Gilead Award. The funding will support the continuation of a project titled, “FINISHING HIV: An HIV protection, diagnosis, and treatment network for Latinos”.

— Dr. Tyler Bartholomew was named a 2021-2022 Johns Hopkins Inter-CFAR HIV Implementation Science Fellow.

— Dr. Mariano Kanamori also received the Society for Prevention Research Abstract of Distinction Award and Best Research Poster Award in 2022.



Dr. Felicia Knaul was recognized as an Honorary Fellow by the American Academy of Nursing for her work on reducing inequities and access to health care for vulnerable groups globally.

## Our faculty work on research projects in countries throughout South America, the Caribbean, the Middle East, and Africa.

— Dr. Jose Szapocznik was inducted into the Academy of Science, Engineering and Medicine of Florida (ASEMFL).

— Dr. Guillermo “Willy” Prado, professor of nursing and health studies, public health sciences, and psychology at the University of Miami, was elected to the prestigious National Academy of Medicine (NAM).

— Dr. Alberto Caban-Martinez received honorable mention for the NIOSH 2022 National Bullard-Sherwood Research to Practice (r2p) Award.

— Dr. Patricia Moreno received the Academy of Behavioral Medicine Research (ABMR) Early-Stage Investigator Award in March 2022.

# LEADERSHIP NAMED

**Dr. David Lee** was named Chair of the Department of Public Health Sciences. Dr. Lee served as acting chair throughout the COVID-19 public health crisis and has been a faculty member in the department since 1990.

He is a leading chronic disease and occupational health epidemiologist.



- Dr. Adam Carrico was named Director of the Center for Aids Research (CFAR) Developmental Core.
- Dr. Eric Brown and Dr. St. George were appointed as directors of the Ph.D. and master's degrees in Prevention Science and Community Health.
- Dr. Taghrid Asfar was nominated by the Florida Tobacco Advisory Council to serve as a Co-Chair of the Tobacco Surveillance and Prevention subcommittee.
- Dr. Shari Messinger-Cayetano and Dr. Alberto Caban-Martinez were appointed DPHS Vice Chairs of Faculty Development and Research.
- President Julio Frenk serves on the Board of Trustees of the Davos Alzheimer's Collaborative (Geneva) Swiss Foundation in Philadelphia, USA.
- President Julio Frenk serves as Commissioner of The Chatham House Commission for Universal Health in London, United Kingdom.
- Dr. James Shultz has been named Director of the new P3H: Protect and Promote Population Health in Complex Crises initiative.
- Dr. Jose Szapocznik serves as Head of Secretariat of the Panel for a Global Public Health Convention.

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# RESEARCH/ SCHOLARSHIP

The Department of Public Health Sciences at the University of Miami Miller School of Medicine is among the most impactful public health programs in the U.S. and has been a leader in public health education, research and practice.

**281**

Peer-Reviewed  
Publications

**12**

Book Chapters  
and Books

**25**

New Extramural  
Grants Awarded

**74**

Lectures  
Delivered







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**The Department of Public Health Sciences has seen a steady rise in NIH research productivity over the last number of years. It is a testament to the persistence and hard work of our talented faculty, but also reflects important contributions from our staff, graduate students, research collaborators and community partners.**

**— J. Sunil Rao, Ph.D.**

Professor and Director of the Division of Biostatistics,  
and Interim Chair of the Department from June 2016 to  
December 2019

# TOP 20 RESEARCH PUBLICATIONS

## Faculty Peer-Reviewed Publications:

- ▶ President Julio Frenk, Population Health and Human Rights, New England Journal of Medicine, September 2021, Impact Factor: 74.7.
- ▶ Alberto Caban-Martinez, Protection with a Third Dose of mRNA Vaccine against SARS-CoV-2 Variants in Frontline Workers, New England Journal of Medicine, May 2022, Impact Factor: 74.7.
- ▶ James Shultz, Covid-19 Vaccination in American Indians and Alaska Natives - Lessons from Effective Community Responses, New England Journal of Medicine, December 2021, Impact Factor: 74.7.
- ▶ James Shultz, Advances in Estimating Mortality Associated With Tropical Cyclones in the US, JAMA, March 2022, Impact Factor: 45.5.
- ▶ Xi Steven Chen, Proteogenomic characterization of pancreatic ductal adenocarcinoma, Cell, September 2021, Impact Factor: 38.6.
- ▶ James Shultz, Resilience and perseverance under siege: providing cancer care during the invasion of Ukraine, Lancet Oncology, May 2022, Impact Factor: 33.8.
- ▶ Ana Palacio, Increased risk of hospitalization and death with the delta variant in the USA, Lancet Infectious Diseases, March 2022, Impact Factor: 24.4.
- ▶ Victor Rosenthal, Infection control in the intensive care unit: expert consensus statements for SARS-CoV-2 using a Delphi method, Lancet Infectious Diseases, March 2022, Impact Factor: 24.4.
- ▶ Lily Wang, Yuguang Ban, and Xi Steven Chen, Dynamic transcriptional activity and chromatin remodeling of regulatory T cells after varied duration of interleukin-2 receptor signaling, Nature Immunology, May 2022, Impact Factor: 20.5.
- ▶ Jennifer Hu, A Rare Germline HOXB13 Variant Contributes to Risk of Prostate Cancer in Men of African Ancestry, European Urology, May 2022, Impact Factor: 18.0.
- ▶ Jose Szapocznik, A global public health convention for the 21st century, Lancet Public Health, June 2021, Impact Factor: 16.3.
- ▶ Daniel Feaster, Improving health equity and ending the HIV epidemic in the USA: a distributional cost-effectiveness analysis in six cities, Lancet HIV, September 2021, Impact Factor: 14.8.
- ▶ Alberto Caban-Martinez, Interim Estimate of Vaccine Effectiveness of BNT162b2 (Pfizer-BioNTech) Vaccine in Preventing SARS-CoV-2 Infection Among Adolescents Aged 12-17 Years Arizona, July-December 2021, MMWR Morbidity and Mortality Weekly Report, 12/1/2021, Impact Factor: 13.6.
- ▶ Alberto Caban-Martinez, Effectiveness of 2-Dose BNT162b2 (Pfizer BioNTech) mRNA Vaccine in Preventing SARS-CoV-2 Infection Among Children Aged 5-11 Years and Adolescents Aged 12-15 Years - PROTECT Cohort, July 2021-February 2022, MMWR Morbidity and Mortality Weekly Report, March 2022, Impact Factor: 13.6.





- ▶ Yuguang Ban, Lily Wang, and Xi Steven Chen, Multi-omics analysis identifies therapeutic vulnerabilities in triple-negative breast cancer subtypes, *Nature communications*, November 2021, Impact Factor: 12.1.
- ▶ Jennifer Hu, Cross-ancestry GWAS meta-analysis identifies six breast cancer loci in African and European ancestry women, *Nature communications*, July 2021, Impact Factor: 12.1.
- ▶ Paulo Pinheiro, Cancer Surveillance Opportunities to Meet Prevention and Control Challenges, *Journal of the National Cancer Institute*, July 2021, Impact Factor: 11.6.
- ▶ Paulo Pinheiro, Cancer Mortality in Latino Populations by Birthplace and Generation: A Complex Analysis, *Journal of the National Cancer Institute*, April 2022, Impact Factor: 11.6.
- ▶ Xi Steven Chen and Lily Wang, MethReg: estimating the regulatory potential of DNA methylation in gene transcription, *Nucleic Acids Research*, May 2022, Impact Factor: 11.5.
- ▶ Raymond Balise, Racial and Ethnic Disparities in Breast Cancer Survival: Emergence of a Clinically Distinct Hispanic Black Population, *Annals of Surgery*, September 2021, Impact Factor: 10.1.

## Editorials and Commentaries:

- ▶ Felicia Knaul, The value of alleviating suffering and dignifying death in war and humanitarian crises, *New England Journal of Medicine*, *Lancet*, April 2022, Impact Factor: 60.4.
- ▶ Felicia Knaul, The Lancet Breast Cancer Commission: tackling a global health, gender, and equity challenge, *Lancet*, March 2022, Impact Factor: 60.4.
- ▶ Felicia Knaul, Report of the Lancet Commission on the Value of Death: bringing death back into life, *Lancet*, February 2022, Impact Factor: 60.4.
- ▶ Felicia Knaul, Universal health coverage must become a best buy for women, *Lancet*, December 2021, Impact Factor: 60.4.
- ▶ Felicia Knaul, The Lancet Commission on cancer and health systems: harnessing synergies to achieve solutions, *Lancet*, September 2021, Impact Factor: 60.4.
- ▶ Felicia Knaul, Gender equity, caregiving, and the 1-2-3-child policy in China, *Lancet*, September 2021, Impact Factor: 60.4.
- ▶ Felicia Knaul, The US Cancer Pain Crisis and the Global Pain Divide: Can Two Wrongs Make It Right?, *Journal of Clinical Oncology*, January 2022, Impact Factor: 33.0.
- ▶ Felicia Knaul, A diagonal and social protection plus approach to meet the challenges of the COVID-19 syndemic: cash transfers and intimate partner violence interventions in Latin America, *Lancet Global Health*, January 2022, Impact Factor: 21.6.
- ▶ Felicia Knaul, Closing the global pain divide: balancing access and excess, *Lancet Public Health*, April 2022, Impact Factor: 16.3.

# NEW GRANTS AWARDED

## New Extramural Grants Awarded

### Biostatistics:

- ▶ Daniel Diaz, AWD-007601: Planning Proposal: NSF IUCRC, Project Start Date: 02/15/2022, \$20,000.
- ▶ Hemant Ishwaran, AWD-006881: Super Greedy Trees, Project Start Date: 6/01/2021, \$2,103,745.
- ▶ Daniel Feaster, AWD-006059: CTN-0080 - The Florida Node Alliance of the National Drug Abuse Treatment Clinical Trials Network, Project Start Date: 03/01/2022, \$320,640.00.
- ▶ Daniel Feaster, AWD-006059: CTN-0104 - The Florida Node Alliance of the National Drug Abuse Treatment Clinical Trials, Project Start Date: 3/1/2022, \$624,685.00.
- ▶ Daniel Feaster, AWD-006059: CTN-0121 - The Florida Node Alliance of the National Drug Abuse Treatment Clinical Trials Network, Project Start Date: 03/01/2022, \$2,883,414.00.
- ▶ Daniel Feaster, AWD-006750: Culturally-focused HIV Advancements through the Next Generation for Equity (CHANGE) Training Program, National Institute of Mental Health (NIMH), Project Start Date: 4/1/2021, \$1,250,950.
- ▶ Sunil Rao, AWD-007904, Modernizing mixed model prediction, Project Start Date: 9/1/2022, \$491,391.
- ▶ Lily Wang and Xi Chen, FP00005690, New computational tools for understanding and predicting AD via age-associated DNA methylation changes, Project Start Date: 7/1/2022, \$3,577,350.

### Environment and Public Health:

- ▶ Alberto Caban-Martinez, AWD-006677, QOL after cancer therapy, Project Start Date: 06/01/2021, \$4,867.
- ▶ Alberto Caban-Martinez, AWD-007650, Wildland Fire Fighters, Project Start Date: 09/07/2021, \$38,765.
- ▶ Scott Brown, AWD-006065: Neighborhood Greenness and Cardiometabolic Health among Hispanics in the HCHS/SOL Study, National Heart, Lung, and Blood Institute (NHLBI), Project Start Date: 9/01/2021, \$2,264,013.

### Epidemiology and Population Health Sciences:

- ▶ Paulo Pinheiro, AWD-006936: Childhood Cancer Disparities in Florida, Project Start Date: 06/10/2021, \$247,000.
- ▶ James Shultz, AWD-007329, PACTT, Project Start Date: 09/30/2021, \$80,000.
- ▶ James Shultz, AWD-007827, Order No. BADFDD, Project Start Date: 4/14/2022, \$29,000.



## Health Services Research and Policy:

- ▶ Tyler Bartholomew, AWD-007595, Covid-18 and Adult Vaccinations at SSP: Demo, Project Start Date: 2/01/2022, \$650,000.
- ▶ Jose Szapocznik, AWD-005736: AHF-Principles for Global Public Health Convention, 1/01/2022, \$719,510.
- ▶ Jose Szapocznik, AWD-006059: Infrastructure - The Florida Node Alliance of the National Drug Abuse, National Institute on Drug Abuse (NIDA), 3/1/2022, \$722,650.
- ▶ Jose Szapocznik, AWD-004814, AHF-UM Infrastructure for the AHF Global Health Policy, 1/01/2022, \$202,668.

## Prevention Science and Community Health:

- ▶ Adam Carrico, FP00005080, Optimizing HIV prevention for highly vulnerable methamphetamine-using sexual minority men, 3/1/2022, \$2,674,364.
- ▶ Mariano Kanamori, AWD-006893: Finishing HIV, 07/01/2021, \$200,000.
- ▶ Patricia Moreno, AWD-007145, Patient Activation and Palliative Care, 09/01/2021, \$2,353,387.
- ▶ Adam Carrico, AWD-007229: TRIDENT, Project Start Date: 9/15/2021, \$5,424,263.
- ▶ Emily Cherenack, AWD-007218: F32: HIV Acquisition, Project Start Date: 9/1/2021, \$206,400.

## Just-in-Time (JIT) Status:

- ▶ Mariano Kanamori, FP00005104, FINISHING HIV: An EHE model for Latinos Integrating One-Stop-Shop PrEP Services, a Social Network Support Program and a National Pharmacy Chain, 3/1/2022, \$3,644,737.



# NEW FACULTY

## DIVISION OF HEALTH SERVICES RESEARCH & POLICY:



**Dr. Nelson Arboleda**

Associate Professor, Educator Track



**Dr. Tyler Bartholomew**

Research Assistant Professor



**Dr. Cynthia Rowe**

Research Associate Professor



**Dr. Elahe Nezami**

Professor, Educator Track

## DIVISION OF EPIDEMIOLOGY:



**Dr. Victor Rosenthal**

Research Associate



**Dr. James Shultz**

Associate Professor, Educator Track



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# TEACHING

## ENROLLMENT

The Department of Public Health Sciences exceeded the enrollment target for FY22 admissions by 23%.

The significant increase in enrollment can be attributed to several factors including an increased interest in public health due to the COVID-19 pandemic and social justice issues, a robust scholarship program with the goal of making our graduate degrees more affordable for all students, coupled with innovative ways to recruit students virtually. Retention outreach efforts were also strengthened.

## TEACHING MODALITY

Public Health courses were offered in both a hybrid and online format due to the ongoing pandemic.

In FY22, we continued to provide flexibility during the COVID-19 pandemic so students could attend classes remotely if they needed. This was accomplished by employing a hybrid format (i.e., some students in person and some online via Zoom at the same time). Our classroom equipment facilitated this process; teaching assistants were trained to assist students participating online in a hybrid class to maintain student engagement.





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**We empower our students to transform lives and inspire them to serve our global community.**

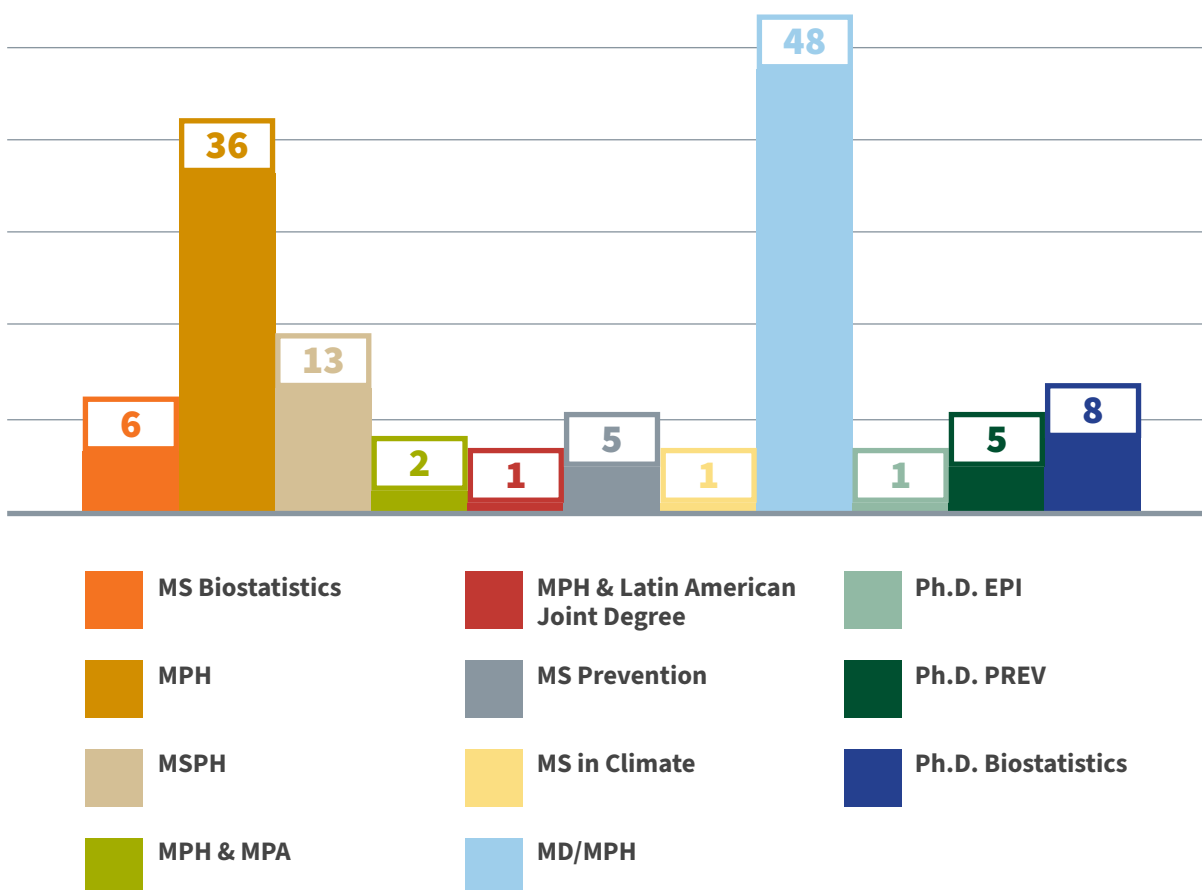
— Dean Henri Ford

# GRADUATION

**The mission of the Graduate Programs in Public Health is to develop leaders who can generate and translate knowledge into policy and practice to promote health and prevent disease in human populations.**

## STUDENT GRADUATION

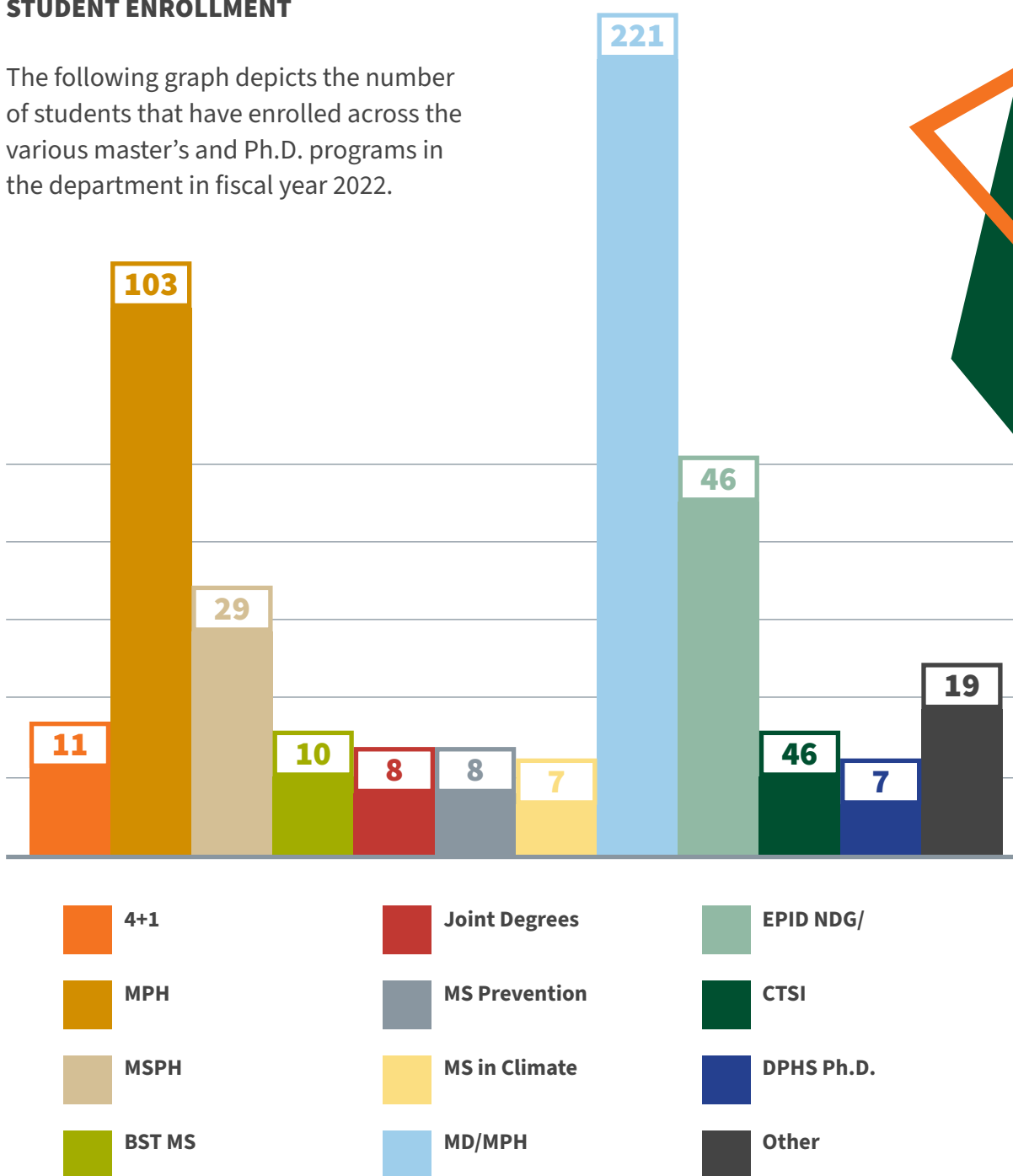
The following graph depicts the number of students that have graduated across the various master's and Ph.D. programs in the Department of Public Health Sciences in fiscal year 2022.



# ENROLLMENT

## STUDENT ENROLLMENT

The following graph depicts the number of students that have enrolled across the various master's and Ph.D. programs in the department in fiscal year 2022.





An aerial photograph of a city, likely Miami, showing a mix of residential and commercial buildings, lush greenery, and a view of the ocean in the distance. A large green rectangular overlay is positioned on the left side of the image, containing a quote and the name of the speaker. The quote is in orange text, and the speaker's name is in white text. The background image shows a dense urban landscape with various building styles, including high-rise apartments and smaller houses, interspersed with trees. The sky is blue with scattered white clouds.

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**In public health,  
society is our patient.**

**— President Julio Frenk**



# DPHS RESILIENCY SCHOLARSHIP PROGRAM



The Department of Public Health Sciences launched its new Resiliency Scholarship Program to support resilient MPH and MSPH students in their efforts to address community or global public health issues through their graduate studies.

**Diana Hernandez Payano was named the inaugural recipient of the DPHS Resiliency Scholarship Program in Fall 2021.**

Diana is particularly interested in social epidemiology and population health and intends to pursue a career as a public health researcher.

Featured from left to right include Margie Jimenez, Viviana Horigian, Diana Hernandez Payano, and David Lee from the Department of Public Health Sciences.



# ACCREDITATION

The Department of Public Health Sciences has secured a full 7-year accreditation term through the Council on Education for Public Health (CEPH), which is the governing agency responsible for the accreditation of schools and programs of public health.

The University of Miami Graduate Programs in Public Health has been accredited by the Council on Education for Public Health (CEPH) since 1982.

The Graduate Programs participated in the most recent CEPH site visit in October 2021 and was awarded reaccreditation in March 2022 for a full 7-year term, through Summer 2029.



# SCHOLARSHIPS & FELLOWSHIPS

All MPH and MSPH students matriculating in the Fall 2021 and Spring 2022 semesters completing a 45-credit degree program received up to 20% in tuition scholarship awards.

The Department of Public Health Sciences guaranteed partial scholarships to accepted students in the Master of Science in Biostatistics and the Master of Science in Prevention Science and Community Health programs.

The department also offered public health graduate students various opportunities to gain professional experience while working as a Graduate Assistant, Teaching Assistant, and Research Assistant.



# DOCTORAL FUNDING

**All doctoral students in Epidemiology, Biostatistics, Prevention Science, and Community Health are fully supported through various sources.**

**Full-time Ph.D. students receive the following support:**

- ▶ **Full tuition support for the length of the Ph.D. program**
- ▶ **Annual Stipend — \$32,000 (paid monthly)**
- ▶ **Graduate Student Health Insurance**

**Doctoral students also have access to research grants, fellowships, conferences, and workshops, fostering innovation, collaboration, and networking in their fields.**

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# CPH EXAM

The Department of Public Health Sciences offered a unique opportunity for current students and alumni to become certified in public health. DPHS sponsored vouchers for eligible current students and alumni to register for the CPH Exam in Spring 2022.



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**Because the Department of Public Health Sciences allowed me the opportunity to obtain the CPH exam Voucher, I was able to take the CPH Exam. Thank you!**

— **Elizabeth Soriano, MPH**  
CPH Exam Voucher Recipient



“

**This program prepared me and sponsored my opportunity to take the CPH Exam. I am grateful for the Department of Public Health's commitment to their students and alumni's success.**

— **Nicole O'Dell, MSPH**  
CPH Exam Voucher Recipient



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[graduatestudies.publichealth.med.miami.edu](http://graduatestudies.publichealth.med.miami.edu)



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Designed by John P. Soto