OMB No. 0925-0001 and 0925-0002 (Rev. 12/2020 Approved Through 02/28/2023)

**BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. DO NOT EXCEED FIVE PAGES.

NAME: Claudio, Luz

eRA COMMONS USER NAME (credential, e.g., agency login): LUZCLAUDIO

POSITION TITLE: Tenured Professor and Chief of the Division of International Health

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

| INSTITUTION AND LOCATION | DEGREE*(if applicable)* | Completion DateMM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| Universidad de Puerto RicoAlbert Einstein College of MedicineAlbert Einstein College of Medicine | BSMSPhD | 05/198406/198806/1990 | BiologyPathologyNeuropathology |

**A. Personal Statement**

I am well prepared to serve as principal investigator for the proposed grant because I have over 25 years of independent research experience with consistent grant funding. Also, I currently serve as tenured professor and Chief of the Division of International Health, thus I have the administrative resources to lead this program. My work focuses on three main activities: 1) research and communication on environmental health and health disparities, 2) training and mentoring of new biomedical researchers, and 3) creating global health research programs in partnership with developing countries. A unifying theme of my professional activities is the goal to make environmental health easy to write for students and emerging scientists and easy to understand for affected communities with the goal to reduce disease produced by environmental exposures locally, nationally and internationally. To this end, I conduct research on the effects of environmental exposures on vulnerable populations, I translate this research into information that can be understood by everyone, I collaborate with community organizations in the assessment and reduction of environmental health risks, I help trainees to pursue careers in biomedical research, and I collaborate with researchers in other countries to achieve similar goals.

Ongoing and recently completed projects that I would like to highlight include:

1. Claudio L: Our food: packaging and public health. Environ Health Perspectives 120: 232-237, 2012
2. Claudio L: Impact of Poverty, Disparity and Injustice on Children’s Environmental Health. In: *Textbook of Children’s Environmental Health*. Landrigan PJ, Etzel RA, Eds. Oxford Univ Press, Chapter 57, 2014
3. Claudio L: *How to Write and Publish a Scientific Paper: The Step-by-Step Guide*. Write Science Now Publishing Co. 2016

Ortega-Garcia JA, Kloosterman N, Alvarez L, Tobarra-Sanchez E, Carceles-Alvarez A, Pastor-Valero R, Lopez-Hernandez FA, Sanchez-Soliz M, Claudio L. Full breastfeeding and obesity in children: A prospective study from birth to 6 years. Childhood Obesity 14(5):327-337. doi: 10.1089/chi.2017.0335. Epub 2018 Jun 18. PMID: 29912590, 2018

**B. Positions, Scientific Appointments, and Honors**

|  |  |
| --- | --- |
| 2013- present:2009 – 2013: 2004 – present: 2001 – 2008: | **Tenured Professor**, Department of Environmental Medicine & Public HealthIcahn School of Medicine at Mount Sinai**Tenured Associate Professor**, Department of Preventive Medicine**Chief; Division of International Health,** Department of Community and Preventive Medicine, Mount Sinai School of Medicine, New York NY**Associate Professor**; Department of Community and Preventive Medicine |

**Honors**

|  |  |
| --- | --- |
| 2018:2018:2007:2004:2003: | **Child Health Advocate Science Award;** Children’s Environmental Health Network**Award for Outstanding Service to Underserved Communities & Global Health;**Mount Sinai Auxiliary Board**Faculty Council Award for Academic Excellence;** Mount Sinai School of Medicine**Equity Champion;** Educational Equity Concepts presented at United Nations**Distinguished Visiting Scholar;** Education Development Center |
| 2001: | **Excellence in the Academy Award**; National Education Association |
| **Scientific** **Appointments** 2012 – present:2008 – present:2003 – 2017:2001 – 2017:2010 – 2012: 2006 – 2010:2003 – 2006:2003 – 2005:2002 – 2003:2000 – 2002:  | **Institute of Medicine of the National Academies**Member of Roundtable on Environmental Health Sciences, Research and Medicine**Collegium Ramazzini:** Member of the independent international academy of experts in occupational and environmental health***Environmental Health Perspectives,* Journalof NIEHS/NIH**Contributing Editorand member of theEditorial Review Board***American Journal of Industrial Medicine***; **Contributing Editor** **National Institute of Environmental Health Sciences, Review Member****Fogarty International Center, NIH**; Advisory Board**Healthy Schools Network**;Board of Directors**National Institutes of Health**; Environmental Health Sciences Review Committee of the National Institute of Environmental Health Sciences. **Academy of Education Development;** Advisory Committee on Science and Gender**American Academy of Pediatrics**; **Consortium on Latino Children’s Health** |

**C. Contribution to Science**

1. Scholarly Work on Training and Mentoring: Relevant to the proposal submitted here, are my training and mentoring activities, which are extensive and impactful. A central focus of my work as a researcher and mentor has been training students from disadvantaged backgrounds to achieve careers in the medical and the biomedical research fields. I have served as principal investigator of several highly successful Training Programs for Minority Students (T35 ES07298-15 and 1R25HL108857-06) for over 20 years. I am also the PI of the International Exchange Program for Minority Students, which has been continuously funded for 14 years (T37 MD001452-14). Together, these programs have served over 190 minority scholars, most of whom are women. The focus of these programs has been to address health disparities at all fronts nationally and internationally. I have conducted evaluations of some of the training programs and the central findings showed that the mentoring component of the design has been impactful for research training participants.

1. Claudio L: Reaching out to the next generation of scientists. National Education Association Journal 17: 77-86, 2001
2. Claudio L: Building self-reliance in environmental science: The ITREOH experience. Environmental Health Perspectives 111: A460-463, 2003
3. Peres F, Claudio L. Fifteen years of occupational and environmental health experiences in Brazil, Chile and Mexico: A report from the Mount Sinai School of Medicine ITREOH Program. Am J Industrial Med 56: 29-37, 2013
4. Krawczyk N, Claudio L. Outcomes of Global Public Health Training Program for US Minority Students: A Case Report. Ann Glob Health. 2017 May - Aug;83(3-4):605-612. doi: 10.1016/j.aogh.2017.08.001. PMID: 29221535 Epub 2017

2. Scholarly Work on Health Disparities and Community Health: I have over 20 years of experience as an independent researcher working to understand how social and environmental factors contribute to health disparities. One example of this is our work in pediatric asthma. With my students and community partners, I published the first paper to clearly show how communities with low socioeconomic status (SES) had rates of asthma that were many times higher than communities with high SES. Central findings from this work showed the interrelation between race, income, language barriers, housing quality, special education and access to medical care and their contribution to asthma disparities. Our findings influenced policy makers and community organizations to help communities that were most affected by asthma and environmental exposures.

a. Stingone J, Claudio L: Disparities in allergy testing and health outcomes among urban children with asthma. Journal of Allergy and Clinical Immunology 122: 748-753, 2008

b. Claudio L, Stingone J: Components of recommended asthma care and the use of long-term control medication among urban children with asthma. Medical Care 47: 940 – 947, 2009

c. McGee S, Claudio L. Nativity as a Determinant of Health Disparities among Children. J Immigr Minor Health. doi: 10.1007/s10903-017-0667-4. PMID: 29094273, 2018

d. Claudio L, Gilmore J, Roy M, Brenner B. Communicating environmental exposure results in a community-based participatory research study. BMC Public Health 784. doi: 10.1186/s12889-018-5721-1, 2018

3. Use of Big Data Science in Epidemiology: There is increased interest by the NIH to use big data in biomedical research. My trainees and I are developing strategies to use big existing databases to further address health disparities, particularly as they pertain to the interaction between environmental and social factors. In addition, I am co-PI of the Community Research Education and Engagement for Data Science program (CREEDS) (R25EB020393) which is part of NIH’s Big Data to Knowledge (BD2K) initiative. Through this work, I have helped develop a training program on big data science in an effort to increase the numbers of women and minorities in the field. We expect that this approach will influence research in population health.

1. Deierlein AL, Peat K, Claudio L. Comparison of the nutrient content of children’s menu items at US restaurant chains, 2010-2014. Nutr J 14: DOI 10.1186/s12937-015-0066-4, 2015
2. Stingone JA, McVeigh KH, Claudio L. Association between prenatal exposure to diesel particulate matter and perchlorethylene with children’s 3rd grade standardized test scores. Environmental Research 148:144-153, 2016
3. Stingone JA, Pandey OP, Claudio L, Pandey G. Using machine learning to identify air pollution exposure profiles associated with early cognitive skills among U.S. children. Environ Pollut. 2017 Nov; 230:730-740. doi: 10.1016/j.envpol.2017.07.023. Epub 2017 Jul 18.PMID: 28732336, 2017
4. Lett LA, Stingone JA, Claudio L. The Combined Influence of Air Pollution and Home Learning Environment on Early Cognitive Skills in Children. Int J Environ Res Public Health. 26;14(11). pii: E1295. doi: 10.3390/ijerph14111295. PMID: 29072589, 2017

4.Scholarly Work on Global Health and International Collaborations: I have been successful in developing and sustaining fruitful international collaborations that expand the research and training programs that I have pursued over the years. Central to this was the International Training in Research on Environmental and Occupational Health (ITREOH TW00640) which resulted in training of 52 experts in Mexico, Brazil and Chile. This cadre of investigators continues to serve as collaborators to research and training programs and have resulted in numerous collaborative publications and grants. These achievements are the basis of my appointment as Chief of the Division of International Health since 2004.

1. Peres F, Rodrigues KM, da Silva Peixoto Belo MS, Moreira JC, Claudio L. Design of risk communication strategies based on risk perception among farmers exposed to pesticides in Rio de Janeiro State, Brazil. Am J Industrial Med 56: 77-89, 2013
2. Froes Asmus CIR, Camara VM, Raggio R, Landrigan PJ, Claudio L. Positive correlation between pesticide sales and central nervous system and cardiovascular congenital abnormalities in Brazil. Int J Environ Health Res. 2017 Oct;27(5):420-426. doi: 10.1080/09603123.2017.1373272. Epub 2017 Sep 6. PMID: 28877591, 2017
3. Burgos S, Tenorio M, Zapata P, Cáceres DD, Klarian J, Alvarez N, Oviedo R, Toro-Campos R, Claudio L, Iglesias V. Cognitive performance among cohorts of children exposed to a waste disposal site containing heavy metals in Chile. Int J Environ Health Res. 2017 Apr;27(2):117-125. doi: 10.1080/09603123.2017.1292494. PMID: 28245674, 2017
4. Galvan-Portillo M, Sánchez E, Cárdenas-Cárdenas LM, Karam R, Claudio L, Cruz M, Burguete-García AI. Dietary patterns in Mexican children and adolescents: Characterization and relation with socioeconomic and home environment factors. Appetite 121: 275-284. doi:10.1016/j.appet.2017.11.088. 2018

Additional publications can be found here: <http://www.ncbi.nlm.nih.gov/sites/myncbi/1TAKB5dIxiJQ7/bibliograpahy/48757028/public/?sort=date&direction=ascending>