

**HOJA DE VIDA**  
**Virginia Nuñez Samudio MD, MPH, PhD**

**A. Datos Personales:**

Nombre Completo	Dirección Residencial	Teléfono contacto	Correo electrónico
Virginia Núñez Samudio	Las Tablas , Los Santos, Panamá	6387-3449	<a href="mailto:virysamudio@yahoo.es">virysamudio@yahoo.es</a> <a href="mailto:vnunez@institutodecienciasmedicas.org">vnunez@institutodecienciasmedicas.org</a>

**B. Preparación Profesional**

Institución de estudio	Ubicación (país, ciudad)	Carrera	Título	Año de Titulación
Instituto Pasteur/ Universidad de Paris VII	Paris, FRANCIA	PhD, Microbiología,	Doctora en Microbiología	2011
Instituto Pasteur/Cnam	Paris, FRANCIA	Maestría	<b>Maestría en Salud Pública énfasis Epidemiología</b>	
USAM	San Salvador, El Salvador	Medicina	Doctor en Medicina	2003

**C. Experiencia Profesional**

Institución	Ubicación (país, ciudad)	Cargo(s)	Logro(s) destacado(s)	Años de afiliación
Senacyt	Panamá	Miembro del Sistema Nacional de Investigación (SNI)	Publicaciones científicas en revistas indexadas, desarrollo de proyectos enfocados a la Salud Pública, organización de Simposium y desarrollo de talleres	2015—a la fecha actual
USAID-Proyecto Capacity CA	Panamá	Consultora para el MINSA y USAID-Proyecto Capacity CA	Tema de Consultoría: Línea de base del Sistema de Vigilancia Epidemiológica para la Prevención y control de la Infecciones Asociadas en la Atención en Salud en Panamá	2014
Ministerio de Salud de Panamá	Herrera, Panamá	Medico Epidemióloga	Coordinadora regional de Epidemiología	2013--- a la fecha actual
Instituto de Ciencias Medicas	Las Tablas , Panamá	Investigadora Jefa de la Unidad	Investigadora principal de varias Convocatorias ganadas.	2012--- a la fecha actual

		de Microbiología y Salud Pública	Dirección de trabajos de tesis de Maestría y de Licenciaturas. Desarrollo de varias líneas de investigación como lo son: estudio sobre la prevalencia y características de víctimas infantiles en accidentes de tránsito en Panamá, epidemiología del suicidio, tipificación molecular de bacterias y caracterización de mecanismos de resistencia a los antibióticos.	
Instituto de Ciencias Médicas	Las Tablas , Los Santos, Panamá		<b>FUNDADORA</b> del Instituto de Ciencia Medicas, organización sin fines de lucro cuya misión es contribuir a la prevención y el tratamiento de las enfermedades, a través de la investigación, la educación y acciones de Salud Pública de incidencia en políticas públicas	2012
Centro Nacional de referencia de <i>Neisseria</i> <b>Instituto Pasteur</b>	Paris, Francia	Joven Investigadora	Caracterización mediante biología molecular de un brote de <i>N. meningitidis</i> serogrupo X en África Subsahariana.	2011
<b>Instituto Pasteur</b>	Paris, Francia	Doctorante en Biología Molecular énfasis Microbiología	Caracterización por Biología Molecular de un nuevo mecanismo de resistencia a macrolidos en bacterias de <i>S. pneumoniae</i>	2006-2010

#### D. Lista de productos más recientes

Publicaciones Médicas y científicas indexadas en PubMed y Medline:

1. **Núñez-Samudio, V.**; Pimentel-Peralta, G.; De La Cruz, A.; Landires, I. Genetic Diversity and New Sequence Types of Escherichia coli Coharboring  $\beta$ -Lactamases and PMQR Genes Isolated from Domestic Dogs in Central Panama. *Genes* 2023, 14, 73. <https://doi.org/10.3390/genes14010073>
2. **Núñez-Samudio V**, Pimentel-Peralta G, Herrera M, Pecchio M, Quintero J, Landires I. Molecular Genetic Epidemiology of an Emerging Antimicrobial-Resistant *Klebsiella pneumoniae* Clone (ST307) Obtained from Clinical Isolates in Central Panama. *Antibiotics (Basel)*. 2022;11(12):1817. Published 2022 Dec 14. doi:10.3390/antibiotics11121817
3. Haeuser E, Serfes AL, Cork MA, et al. Mapping age- and sex-specific HIV prevalence in adults in sub-Saharan Africa, 2000-2018. *BMC Med*. 2022;20(1):488. Published 2022 Dec 19. doi:10.1186/s12916-022-02639-z

4. Reiner RC Jr; LBD Triple Burden Collaborators, Hay SI. The overlapping burden of the three leading causes of disability and death in sub-Saharan African children. *Nat Commun.* 2022;13(1):7457. Published 2022 Dec 6. doi:10.1038/s41467-022-34240-6
5. Courville K, Bustamante N, Hurtado B, Pecchio M, Rodríguez C, **Núñez-Samudio V**, Landires I. Chronic kidney disease of nontraditional causes in central Panama. *BMC Nephrol.* 2022 Aug 5;23(1):275. doi: 10.1186/s12882-022-02907-3. PMID: 35931963; PMCID: PMC9356394
6. GBD 2019 Antimicrobial Resistance Collaborators. Global mortality associated with 33 bacterial pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet.* 2023;400(10369):2221-2248. doi:10.1016/S0140-6736(22)02185-7
7. GBD 2019 Snakebite Envenomation Collaborators. Global mortality of snakebite envenoming between 1990 and 2019. *Nat Commun.* 2022;13(1):6160. Published 2022 Oct 25. doi:10.1038/s41467-022-33627-9
8. GBD 2019 Benign Prostatic Hyperplasia Collaborators. The global, regional, and national burden of benign prostatic hyperplasia in 204 countries and territories from 2000 to 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Healthy Longev.* 2022;3(11):e754-e776. doi:10.1016/S2666-7568(22)00213-6
9. GBD 2019 Cancer Risk Factors Collaborators. The global burden of cancer attributable to risk factors, 2010-19: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet.* 2022 Aug 20;400(10352):563-591. doi: 10.1016/S0140-6736(22)01438-6. PMID: 35988567; PMCID: PMC9395583.
10. GBD 2019 LRI Collaborators. Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis.* 2022 Aug 11:S1473-3099(22)00510-2. doi: 10.1016/S1473-3099(22)00510-2. Epub ahead of print. PMID: 35964613.
11. GBD 2019 Diabetes in the Americas Collaborators. Burden of diabetes and hyperglycaemia in adults in the Americas, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Diabetes Endocrinol.* 2022 Sep;10(9):655-667. doi: 10.1016/S2213-8587(22)00186-3. Epub 2022 Jul 15. PMID: 35850129; PMCID: PMC9399220.
12. GBD 2019 Adolescent Transport and Unintentional Injuries Collaborators. Adolescent transport and unintentional injuries: a systematic analysis using the Global Burden of Disease Study 2019. *Lancet Public Health.* 2022 Aug;7(8):e657-e669. doi: 10.1016/S2468-2667(22)00134-7. Epub 2022 Jun 30. PMID: 35779567; PMCID: PMC9329128.
13. GBD 2019 Hepatitis B Collaborators. Global, regional, and national burden of hepatitis B, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Gastroenterol Hepatol.* 2022 Sep;7(9):796-829. doi: 10.1016/S2468-1253(22)00124-8. Epub 2022 Jun 21. PMID: 35738290; PMCID: PMC9349325.
14. Aguillon D, Vasquez D, Madrigal L, Moreno S, Hernández D, Isaza-Ruget M, Lopez JJ, Landires I,

- Nunez-Samudio V**, Restrepo CM, Vidal OM, Vélez JI, Arcos-Holzinger M, Lopera F, Arcos-Burgos M. Correction to: Ataxia with Ocular Apraxia Type 1 (AOA1) (APTX, W279\* Mutation): Neurological, Neuropsychological, and Molecular Outlining of a Heterogenous Phenotype in Four Colombian Siblings. *Mol Neurobiol*. 2022 Jun;59(6):3859. doi: 10.1007/s12035-022-02874-.
15. GBD 2019 Ageing Collaborators. Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study. *BMJ*. 2022 Mar 10;376:e068208. doi: 10.1136/bmj-2021-068208. PMID: 35273014; PMCID: PMC9316948.
  16. GBD 2019 Colorectal Cancer Collaborators. Global, regional, and national burden of colorectal cancer and its risk factors, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Gastroenterol Hepatol*. 2022 Jul;7(7):627-647. doi: 10.1016/S2468-1253(22)00044-9. Epub 2022 Apr 7. Erratum in: *Lancet Gastroenterol Hepatol*. 2022 Aug;7(8):704. PMID: 35397795; PMCID: PMC9192760.
  17. Vega S, Acosta F, Landires I, Morán M, Gonzalez J, Pimentel-Peralta G, **Núñez-Samudio V**, Goodridge A. Phenotypic and genotypic characteristics of carbapenemase- and extended spectrum  $\beta$ -lactamase-producing *Klebsiella pneumoniae ozaenae* clinical isolates within a hospital in Panama City. *Ther Adv Infect Dis*. 2021 Oct 30;8:20499361211054918. doi: 10.1177/20499361211054918.
  18. Fernández-Marín H, Bruner-Montero G, Portugal-Loayza A, Miranda V, Villarreal Dominguez AE, Ortega-Barría E, **Núñez-Samudio V**, Landires I, Mejía LC, López-Vergès S, Wcislo WT, Kosagisharaf JR. Dynamics of Mask Use as a Prevention Strategy against SARS-CoV-2 in Panama. *Int J Environ Res Public Health*. 2021 Dec 9;18(24):12982. doi: 10.3390/ijerph182412982.
  19. Global Burden of Disease 2019 Cancer Collaboration, Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life Years for 29 Cancer Groups From 2010 to 2019: A Systematic Analysis for the Global Burden of Disease Study 2019. *JAMA Oncol*. 2021 Dec 30:e216987. doi: 10.1001/jamaoncol.2021.6987.
  20. GBD 2019 Adolescent Young Adult Cancer Collaborators. The global burden of adolescent and young adult cancer in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Oncol*. 2022 Jan;23(1):27-52. doi: 10.1016/S1470-2045(21)00581-7.
  21. Safiri S, Kolahi AA, Naghavi M; Global Burden of Disease Bladder Cancer Collaborators. Global, regional and national burden of bladder cancer and its attributable risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease study 2019. *BMJ Glob Health*. 2021 Nov;6(11):e004128. doi: 10.1136/bmjgh-2020-004128.
  22. **Núñez-Samudio V**, Pecchio M, Pimentel-Peralta G, Quintero Y, Herrera M, Landires I. Molecular Epidemiology of *Escherichia coli* Clinical Isolates from Central Panama. *Antibiotics (Basel)*. 2021;10(8):899. Published 2021 Jul 23. doi:10.3390/antibiotics10080899.
  23. GBD 2019 Adolescent Mortality Collaborators. Global, regional, and national mortality among young people aged 10-24 years, 1950-2019: a systematic analysis for the Global Burden of

- Disease Study 2019. *Lancet*. 2021 Oct 30;398(10311):1593-1618. doi: 10.1016/S0140-6736(21)01546-4.
24. GBD 2019 HIV Collaborators. Global, regional, and national sex-specific burden and control of the HIV epidemic, 1990-2019, for 204 countries and territories: the Global Burden of Diseases Study 2019. *Lancet HIV*. 2021 Oct;8(10):e633-e651. doi: 10.1016/S2352-3018(21)00152-1.
  25. GBD 2019 Tuberculosis Collaborators. Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis*. 2022 Feb;22(2):222-241. doi: 10.1016/S1473-3099(21)00449-7.
  26. Kinyoki D, Osgood-Zimmerman AE, Bhattacharjee NV; Local Burden of Disease Anaemia Collaborators, Kassebaum NJ, Hay SI. Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018. *Nat Med*. 2021 Oct;27(10):1761-1782. doi: 10.1038/s41591-021-01498-0.
  27. GBD 2019 Under-5 Mortality Collaborators. Global, regional, and national progress towards Sustainable Development Goal 3.2 for neonatal and child health: all-cause and cause-specific mortality findings from the Global Burden of Disease Study 2019. *Lancet*. 2021;398(10303):870-905. doi:10.1016/S0140-6736(21)01207-1
  28. GBD 2019 Respiratory Tract Cancers Collaborators. Global, regional, and national burden of respiratory tract cancers and associated risk factors from 1990 to 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Respir Med*. 2021;9(9):1030-1049. doi:10.1016/S2213-2600(21)00164-8
  29. **Núñez-Samudio V**, Meza M, Landires I. Dengue and hantavirus coinfection with good outcomes: a clinical case from Panama. *BMJ Case Rep*. 2021;14(5):e235779. Published 2021 May 19. doi:10.1136/bcr-2020-235779
  30. GBD 2019 Dementia Collaborators. Use of multidimensional item response theory methods for dementia prevalence prediction: an example using the Health and Retirement Survey and the Aging, Demographics, and Memory Study. *BMC Med Inform Decis Mak*. 2021;21(1):241. Published 2021 Aug 11. doi:10.1186/s12911-021-01590-y
  31. Courville K, **Núñez-Samudio V**, Landires I. Alport syndrome: update in pathophysiology, genetics, diagnosis, and treatment. *Rev Nefrol Dial Traspl*. [Internet]. 2021 Mar. 25 [cited 2021 Sep. 19];41(1):62-1. Available from: <https://www.revistarenal.org.ar/index.php/rndt/article/view/619>
  32. GBD 2020, Release 1, Vaccine Coverage Collaborators. Measuring routine childhood vaccination coverage in 204 countries and territories, 1980-2019: a systematic analysis for the Global Burden of Disease Study 2020, Release 1. *Lancet*. 2021;398(10299):503-521. doi:10.1016/S0140-6736(21)00984-3
  33. Local Burden of Disease HIV Collaborators. Subnational mapping of HIV incidence and mortality among individuals aged 15-49 years in sub-Saharan Africa, 2000-18: a

modellingstudy. *Lancet HIV*. 2021;8(6):e363-e375. doi:10.1016/S2352-3018(21)00051-5

34. Bhattacharjee NV, Schaeffer LE, Hay SI; Local Burden of Disease Exclusive Breastfeeding Collaborators. Mapping inequalities in exclusive breastfeeding in low- and middle-income countries, 2000-2018. *Nat Hum Behav*. 2021;5(8):1027-1045. doi:10.1038/s41562-021-01108-6
35. **Núñez-Samudio V**, Landires I. Epidemiology of viral respiratory infections in a pediatric reference hospital in Central Panama. *BMC Infect Dis*. 2021;21(1):43. Published 2021 Jan 9. doi:10.1186/s12879-020-05720-1
36. GBD 2019 Chewing Tobacco Collaborators. Spatial, temporal, and demographic patterns in prevalence of chewing tobacco use in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019 [published correction appears in *Lancet Public Health*. 2021 Jul;6(7):e449]. *Lancet Public Health*. 2021;6(7):e482-e499. doi:10.1016/S2468-2667(21)00065-7
37. The Burden of Dementia due to Down Syndrome, Parkinson's Disease, Stroke, and Traumatic Brain Injury: A Systematic Analysis for the Global Burden of Disease Study 2019. *Neuroepidemiology* 2021;55:286-296. doi: 10.1159/000515393
38. GBD 2019 Hearing Loss Collaborators. Hearing loss prevalence and years lived with disability, 1990-2019: findings from the Global Burden of Disease Study 2019. *Lancet*. 2021;397(10278):996-1009. doi:10.1016/S0140-6736(21)00516-X
39. GBD 2019 Blindness and Vision Impairment Collaborators; Vision Loss Expert Group of the Global Burden of Disease Study. Causes of blindness and vision impairment in 2020 and trends over 30 years, and prevalence of avoidable blindness in relation to VISION 2020: the Right to Sight: an analysis for the Global Burden of Disease Study [published correction appears in *Lancet Glob Health*. 2021 Apr;9(4):e408]. *Lancet Glob Health*. 2021;9(2):e144-e160. doi:10.1016/S2214-109X(20)30489-7
40. Local Burden of Disease HIV Collaborators. Mapping subnational HIV mortality in six Latin American countries with incomplete vital registration systems. *BMC Med* **19**, 4 (2021). <https://doi.org/10.1186/s12916-020-01876-4>
41. **Núñez-Samudio V**, Mayorga-Marín F, López Castillo H, Landires I. Epidemiological Characteristics of Road Traffic Injuries Involving Children in Three Central American Countries, 2012-2015. *Int J Environ Res Public Health*. 2020;18(1):37. Published 2020 Dec 23. doi:10.3390/ijerph18010037
42. GBD 2019 Risk Factors Collaborators. Global burden of 87 risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020;396(10258):1223-1249. doi:10.1016/S0140-6736(20)30752-2
43. GBD 2019 Diseases and Injuries Collaborators. Global burden of 369 diseases and injuries in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019 [published correction appears in *Lancet*. 2020 Nov

- 14;396(10262):1562]. *Lancet*. 2020;396(10258):1204-1222. doi:10.1016/S0140-6736(20)30925-9
44. GBD 2019 Viewpoint Collaborators. Five insights from the Global Burden of Disease Study 2019. *Lancet*. 2020;396(10258):1135-1159. doi:10.1016/S0140-6736(20)31404-5
45. **Núñez-Samudio V**, Jiménez-Domínguez A, López Castillo H, Landires I. Epidemiologic Characteristics of Suicide in Panama, 2007-2016. *Medicina (Kaunas)*. 2020;56(9):442. Published 2020 Aug 31. doi:10.3390/medicina56090442
46. GBD 2019 Universal Health Coverage Collaborators. Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020;396(10258):1250-1284. doi:10.1016/S0140-6736(20)30750-9
47. GBD 2019 Collaborators. Global mortality from dementia: Application of a new method and results from the Global Burden of Disease Study 2019. *Alzheimer's Dement*. 2021; 7:e12200. <https://doi.org/10.1002/trc2.12200>
48. **Núñez-Samudio V**, Landires I. Public policies based on scientific evidence: child road safety. Políticas públicas basadas en evidencia científica: el caso de la seguridad vial infantil. *Arch Argent Pediatr*. 2020;118(3):e252-e257. doi:10.5546/aap.2020.eng.e252
49. Landires I, Núñez-Samudio V, Fernandez J, et al. Calpainopathy: Description of a Novel Mutation and Clinical Presentation with Early Severe Contractures. *Genes (Basel)*. 2020;11(2):129. Published 2020 Jan 25. doi:10.3390/genes11020129
50. Landires I, **Núñez-Samudio V**, Apraéz-Ippolito G, Castro G. Planetary health: a new sociopolitical framework is urgently needed. *Lancet*. 2018;391(10126):1158. doi:10.1016/S0140-6736(18)30685-8
51. Landires I, **Núñez-Samudio V**. Epigenetics, memory, and inheritance. Epigenética, memoria y herencia. *Neurología (Engl Ed)*. 2019;34(2):138-139. doi:10.1016/j.nrl.2017.03.002
52. Agnemesmel A, Hong E, Giorgini D, **Núñez-Samudio V**, Deghmane AE, Taha MK. Neisseria meningitidis Serogroup X in Sub-Saharan Africa. *Emerg Infect Dis*. 2016;22(4):698-702. doi:10.3201/eid2204.150653
53. **Núñez-Samudio V**, Jaramillo-Morales J, Landires I. Prevalence and characteristics of child victims in motor vehicle collisions in Panama. *Traffic Inj Prev*. 2016;17(4):391-393. doi:10.1080/15389588.2015.1092524
54. **Núñez-Samudio V**, Montenegro E, Landires I. Lucha contra el dengue con participación estudiantil: una estrategia de impacto en la comunidad [Combating dengue fever with the help of the student population: a community impact strategy]. *Aten Primaria*. 2013;45(7):393-394. doi:10.1016/j.aprim.2013.01.004

55. Landires I, **Núñez-Samudio V**, Thèze J. Short communication: nuclear JAK3 and its involvement in CD4 activation in HIV-infected patients. *AIDS Res Hum Retroviruses*. 2013;29(5):784-787. doi:10.1089/aid.2012.0249
56. **Nunez-Samudio V**, Chesneau O. Functional interplay between the ATP binding cassette Msr(D) protein and the membrane facilitator superfamily Mef(E) transporter for macrolideresistance in *Escherichia coli*. *Res Microbiol*. 2013;164(3):226-235. doi:10.1016/j.resmic.2012.12.003
57. **Núñez-Samudio V**, Landires I. El síndrome de Ekiri como una complicación de la shigellosis [Ekiri syndrome complicating shigellosis]. *Enferm Infecc Microbiol Clin*. 2007;25(7):492-493. doi:10.1157/13108716
58. Landires I, **Núñez-Samudio V**, Landires E. El desarrollo de tuberculosis extrapulmonar [Development of extrapulmonary tuberculosis]. *Arch Bronconeumol*. 2007;43(2):129. doi:10.1016/s1579-2129(07)60034-2
59. Landires I, **Núñez-Samudio V**. Genética y síndrome metabólico: una oportunidad más pararealizar intervenciones integrales en salud [Genetics and metabolic syndrome: a further opportunity for conducting integrated health interventions]. *Aten Primaria*. 2007;39(1):52. doi:10.1016/s0212-6567(07)70837-5
60. **Núñez-Samudio V**. Niños contra el dengue [Children against dengue]. *An Pediatr (Barc)*. 2007;66(1):89. doi:10.1016/s1695-4033(07)70302-8
61. Landires I, **Núñez-Samudio V**, Pascale JM. Terapia adyuvante en meningitis tuberculosa y coinfección por el virus de la inmunodeficiencia humana [Adjunctive therapy in tuberculoumeningitis and human immunodeficiency virus coinfection]. *Enferm Infecc Microbiol Clin*. 2006;24(8):538. doi:10.1157/13092478