

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: Tania C. Vasquez Loarte

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

POSITION TITLE: MD, MPH

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 Date MM/YYYY	FIELD OF STUDY
Universidad Nacional Mayor de San Marcos, Lima, Peru	MD	12/2008	Physician
Universidad Cayetano Heredia, Lima, Peru		2013	Epidemiology
University of Washington, Seattle, WA	MPH	06/2019	Public Health Genetics

A. Personal Statement

I am a young physician scientist who is committed to the development of public health genetics in emergent countries. Through health outcomes and patient centered research, I aim to assess health interventions for the prevention and treatment of rare disorders. Because of my prior experience developing regulations in clinical research and my interest in medical genetics, I also aim to collaborate in the policy making for the implementation of genetic technologies and therapies. I am also an advocate for the improvement of healthcare in benefit of people with developmental delay. My research has been focused, but is not limited to, the ethics of genome modification therapies in hemophilia; newborn screening, family sharing practices in cascade genetic testing, the impact of COVID in the healthcare of children with Down Syndrome, the clinical utility of exosome sequencing in the diagnosis of rare disorders in emerging countries and the development of clinical guidelines for the treatment of rare disorders.

B. Positions and Honors**Positions and Employment**

9/2019 – 6/2020	Post-doctoral research scientist, Pediatrics Department, Columbia University
5/2018 - 12/2018	Health Services Consultant, Newborn Screening, Department of Health, WA
2017 - 2019	Teaching Assistant, University of Washington, WA

2016 - 2018	Guideline Development Group for Fabry and Gaucher Disease Management and Cancer Prevention, Peru
2012-2017	Research Consultant, Peruvian National Institute of Health, Peru
2014 and 2016	Research Methods Instructor, Universidad San Martin de Porres, Peru
2015	Medical Scientific Liaison, Janssen, Lima, Peru
2011-2012	Hospitalist, Clinica El Golf, Lima, Peru

Experience and Professional Memberships

2021	Young investigator, G2MC Rare Disease Project
2008 – Present	Member of the Peruvian Medical College
2019 – 2020	American Society for Human Genetics

Honors

2021, Global Health Seed Grant from UCLA for the project: A new algorithm to detect critical congenital heart disease at different altitudes

2019, General Graduate Student Conference Travel Award – UW for my oral presentation about “Newborn Screening and Public Health” at the Conference “Genetics and Human Genomics” (Peru), Guest speaker

2013, Universidad de las Naciones Unidas Scholarship for IX Curso de la Escuela Latinoamericana de Genética

2012, Cooperación Técnica Belga Scholarship for Master’s degree in Epidemiology

B. Contributions to Science

PEER REVIEWED PUBLICATIONS

1. Luksic D, Sukhu R, Koval C, Cho MT, Espinal A, Rufino K, Loarte TV, Chung WK, Wynn J. A qualitative study of Latinx parents' experiences of clinical exome sequencing. *J Genet Couns* 2020 Aug;29(4):574-586. doi: 10.1002/jgc4.1276.
2. Vásquez-Loarte T, Lucas T, Harris-Wai J, Bowen D. Beliefs and Values About Gene Therapy and In-Utero Gene Editing in Patients with Hemophilia and Their Relatives. *Patient* 2020 Oct;13(5):633-642. doi: 10.1007/s40271-020-00442-7.
3. Vásquez-Loarte T, Thompson JD, Merritt JL 2nd. Considering Proximal Urea Cycle Disorders in
4. Expanded Newborn Screening. *Int. J. Neonatal Screen.* 2020, 6(4), 77. <https://doi.org/10.3390/ijns6040077>
5. Caballero N, Vásquez-Loarte T, Trubnykova M, Chávez M, Gallardo J, Vásquez Sotomayor B, Chavesta Velásquez F, Poterico F, La Serna Infantes J, Abarca-Barriga H. Variantes en el número de copias en trastornos del neurodesarrollo, síndrome malformativo y talla baja en Perú. *Acta méd. Peru.* 2020;37(2):145-155. <http://dx.doi.org/10.35663/amp.2020.372.915>.
6. Vasquez-Loarte T, Trubnikova M, Guio H. Polymorphism MCP1 -2518 and Pulmonary Tuberculosis: A meta-analysis with an ethnic perspective. *BMC Genet.* 2015 Oct 30;16:128. doi: 10.1186/s12863-015-0280-2.

7. Romani Romani, F. R., Roque Henríquez, J., Vásquez Loarte, T., Mormontoy Calvo, H., & Vásquez Soplopucó, H. (2016, July). Análisis bibliométrico de la producción científica sobre las agendas nacionales de investigación en el Perú 2011-2014. *Anales de la Facultad de Medicina* (Vol. 77, No. 3, pp. 241-249). UNMSM Facultad de Medicina.
8. Nunura RJ, Salazar MD, Vasquez LT., Endo G S, Rodriguez FA, Zerpa FR. Paracoccidiodomicosis and multidrug – resistant Tuberculosis (TBC-MDR) in patient coinfectad with HIV and Hepatitis C. *Rev Chil Infect* 2010; 27 (6): 551-555. PMID: 21279295.
9. Nunura J, Vasquez T, Endo S, Salazar A, Solis H. Disseminated toxoplasmosis in an immunocompetent patient from Peruvian Amazon. *Revista do Instituto de Medicina Tropical de Sao Paulo* 2010 Apr;52(2):107-10. PMID: 20464132.
10. Endo S, Zavala A, Vásquez T, Fuentes I. Características del personal del Hospital de Emergencias José Casimiro Ulloa y nivel de conocimiento de medidas de acción durante un sismo. (Perceived knowledge and preparedness for earthquake disaster management among health care personnel at Casimiro Ulloa Emergency Hospital. Lima- Peru). *Revista Peruana de Epidemiología* 2008. Vol 12 No 1.

POSTER PRESENTATIONS

1. Garcia L, Chiu K, Vasquez T, Fletcher MA, Klimas N. Differences in Profiles of Chronic Fatigue Syndrome between Hispanic and non-Hispanic Women. Presented at Women's Health 2010: The 18th Annual Congress. Washington DC. 2010.
2. Vásquez-Loarte T, Thompson JD, Merritt JL 2nd. Expanding the Spectrum of Urea Cycle Disorders as Candidates for Newborn Screening in Washington State. Presented at American College of Medical Genetics Annual Conference, April 2019, Seattle, WA USA.

ORAL PRESENTATION

1. Vasquez-Loarte T. Public Health and Newborn Screening. Presented at: Human Genetics and Genomics Conference: Current topics and perspectives. Peru, 2019.

D. Additional Information: Research Support and/or Scholastic Performance

-Thesis Project:

Attitudes and Beliefs on Gene Therapy and Gene Editing within the Hemophilia Community (awarded to Dr. Tiffany Lin, UCSF Center for Maternal-Fetal Precision Medicine Program)

-Frequency of genotypes NAT2, CYP2E1 and AADAC in Peruvian patients with pulmonary tuberculosis diagnosis. (awarded to PI: Heinner Guio MD PHD, grant received from Peruvian National Institute of Health, 020-2014-DG-OGITT-OPE/INS)