Stanford

Helio Costa

- Instructor, Pathology
- Instructor, Biomedical Data Science

CLINICAL OFFICES

- **Molecular Genetic Pathology Laboratory**

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  MC 5563

  Palo Alto, CA 94304

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Bio

BIO

Helio Costa, PhD, is a geneticist with expertise in genomics, molecular biology, oncology, and bioinformatics. He is currently an Instructor within the Departments of Pathology and Biomedical Data Science at Stanford Medical School. Dr. Costa's research utilizes next-generation sequencing to develop new genome and transcriptome profiling methods with the goal of translating these tools to clinical diagnostic tests for implementation at Stanford Health Care. He is also an Attending Geneticist, and Assistant Lab Director of the Molecular Genetic Pathology Laboratory for Stanford Health Care. Dr. Costa received his BS in Genetics from University of California, Davis, his PhD in Genetics from Stanford University School of Medicine, and his ABMGG Clinical Molecular Genetics and Genomics fellowship training from Stanford University School of Medicine.

CLINICAL FOCUS

- Clinical Molecular Genetics
- Molecular Oncology
- Molecular Pathology
- Medical Genetics

ACADEMIC APPOINTMENTS

- Instructor, Pathology
- Instructor, Biomedical Data Science
- Member, Child Health Research Institute

ADMINISTRATIVE APPOINTMENTS

- Assistant Lab Director, Molecular Genetic Pathology Laboratory, (2017- present)

PROFESSIONAL EDUCATION

- Fellowship, Stanford University School of Medicine , ABMGG Clinical Molecular Genetics and Genomics (2017)
- Doctor of Philosophy, Stanford University School of Medicine , Genetics (2015)

- Bachelor of Science, University of California, Davis , Genetics (2010)

LINKS

- LinkedIn: https://linkedin.com/in/helio-costa
- Twitter: https://twitter.com/HelioA_Costa

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)

Publications

PUBLICATIONS

- **Promoting appropriate genetic testing: the impact of a combined test review and consultative service.** *Genetics in medicine*
  Suarez, C. J., Yu, L., Downs, N., Costa, H. A., Stevenson, D. A.
  2017
- **Identification of a Novel Somatic Mutation Leading to Allele Dropout for EGFR L858R Genotyping in Non-Small Cell Lung Cancer** *Molecular Diagnosis & Therapy*
  Costa, H. A., Neal, J. W., Bustamante, C. D., Zehnder, J. L.
  2017
- **Discovery and functional characterization of a neomorphic PTEN mutation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Costa, H. A., Leitner, M. G., Sos, M. L., Mavrantoni, A., Rychkova, A., Johnson, J. R., Newton, B. W., Yee, M., De La Vega, F. M., Ford, J. M., Krogan, N. J., Shokat, K. M., Oliver, et al
  2015; 112 (45): 13976-13981
- **Transcriptome sequencing from diverse human populations reveals differentiated regulatory architecture.** *PLoS genetics*
  Martin, A. R., Costa, H. A., Lappalainen, T., Henn, B. M., Kidd, J. M., Yee, M., Grubert, F., Cann, H. M., Snyder, M., Montgomery, S. B., Bustamante, C. D.
  2014; 10 (8)