

Alejandra Rodriguez

PATENT AGENT

Patents and
Innovations
Century City

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FOCUS AREAS

Artificial Intelligence and
Machine Learning

Biotech

Patents and Innovations

EXPERIENCE

Dr. Alejandra Rodriguez is a patent agent in the Century City office of Wilson Sonsini Goodrich & Rosati, where her work focuses on patents and innovations related to artificial intelligence (AI), machine learning, bioinformatics, and genomics.

Alejandra obtained her Ph.D. in the laboratory of Dr. Paivi Pajukanta at the University of California, Los Angeles, where her doctoral research focused on multiomic data integration to characterize molecular mechanisms underlying cardiometabolic traits. She completed her postdoctoral training in the laboratory of Dr. Dion Dickman at the University of Southern California, where her research focused on multiomic approaches to characterize mechanisms for homeostatic plasticity in the injured neuron.

Prior to joining the firm, Alejandra was a scientific patent analyst at Guardant Health and a bioinformatic scientist at Genentech, Amgen, and MedGenome.

During her Ph.D. studies, Alejandra earned certificates in Chromatin, Epigenetics & Gene Expression (Cold Spring Harbor, NY) and Chromatin Structure and Function (Wellcome Genome Campus, Hinxton, UK). While she was working at Guardant, she obtained a certificate from the Applied Data Science Program at the Massachusetts Institute of Technology.

CREDENTIALS

Education

- Postdoctoral Fellow, University of Southern California
Recipient, Postdoctoral Enrichment Program Award, Burroughs Wellcome Fund; Recipient, Postdoctoral Research Supplement, National Institute of Neurological Disorders and Stroke (NINDS)
- Ph.D., Human Genetics, University of California, Los Angeles, 2018
Recipient, National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP); Recipient, Leena Peltonen Award in Research Excellence
- B.S., Biotechnology, California State University, Northridge, 2005

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications and Patent Applications

- Co-author, "Classification of Breast Tumors Using DNA Methylation from Liquid Biopsy," World Intellectual Property Organization, 019254, 2025
- Co-author, "Methods for Early Detection of Cancer," World Intellectual Property Organization, 007038, 2025

- GH0222US (Provisional Application)
- Co-author, “Genomics and Systems Biology Approaches in the Study of Lipid Disorders,” 70(5) *Revista de Investigación Clínica*, 217-223, 2018
- Co-author, “Family-specific aggregation of lipid GWAS variants confers the susceptibility to familial hypercholesterolemia in a large Austrian family,” 264 *Atherosclerosis*, 58-66, 2017
- Co-author, “Molecular characterization of the lipid GWAS signal on chromosome 18q11.2 implicates HNF4A-mediated regulation of the TMEM241 gene,” 36 *Arteriosclerosis, Thrombosis, and Vascular Biology*, 1350-1355, 2016
- Co-author, “Amerindian-specific regions under positive selection harbour new lipid variants in Latinos,” 5 *Nature Communications*, 3983, 2014