



Peggy Farnham, Ph.D.

Clinical Interests

Dr. Farnham has research interests in human genomics, transcriptional regulation in cancer and embryonic stem cells, and chromatin structure. The Farnham laboratory has been a leader in developing the technique of chromatin immunoprecipitation (ChIP) to study mammalian transcription factors. Recently, they have extended these studies to allow a high throughput, global analysis of transcription factor target genes by combining chromatin immunoprecipitation with genomic microarray hybridization (ChIP-chip assays) and with high throughput sequencing (ChIP-seq). Current projects include the analysis of chromatin structure in embryonic stem cells and other normal and tumor cell types and the genome-wide identification of target genes of a variety of human transcription factors. In addition to bench work, the Farnham lab is also developing programs to assist in the analysis of genome-scale ChIP-chip and ChIP-seq data and to derive consensus motifs from experimentally identified binding sites. Dr. Farnham is a member of the ENCODE Consortium, whose goal is to map all the functional elements in the human genome. She is also a member of the recently funded NIH Roadmap UC Reference Epigenome Mapping Center; her lab will be determining the histone modifications for a variety of different human cell types.

Title Associate Director, UC Davis Genome Center
Professor

Department [Pharmacology](#)

Division Pharmacology

Center/Program Affiliation [Genome Center](#)
[UC Davis Comprehensive Cancer Center](#)

Education Ph.D., Yale University, New Haven, Connecticut, 1982
B.A., Rice University, Houston, Texas, 1978

Honors and Awards Keynote Speaker at the Annual University Health Network (UHN) Research Day, University of Toronto, 2006
Santa Cruz Biotechnology Investigator Award, 2005

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