



## 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

**Select Recent Publications** [List of publications](http://www.ncbi.nlm.nih.gov/pubmed?term=Farnham%20PJ%20[Author]&cmd=DetailsSearch)

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