

# Karl R. Clauser

## Research Scientist III

### Biography:

Karl joined the Broad Institute in June 2004. He is currently involved in proteomics research with an emphasis on biomarker discovery, phosphoproteomics, and mass spectral interpretation software development. From 1997-2004 Karl was a senior scientist at Millennium Pharmaceuticals Inc. in Cambridge, MA in the Department of Protein Sciences. While there he was engaged in the development of high-throughput LC/MS/MS techniques for studying differential protein expression, protein complex constituents, phosphorylation site identification, and the commercialization of the SpectrumMill software package with Agilent Technologies Inc. He did his graduate training in mass spectrometry at the University of California San Francisco (UCSF) under the direction of Professor Alma Burlingame, though neglected to finish writing his PhD dissertation. While at UCSF he co-developed the ProteinProspector software package with Peter Baker for interpreting mass spectrometry data generated from proteomics experiments, and used these tools to study differentially expressed proteins isolated via 2D-PAGE for the pregnancy disorder pre-eclampsia and the response of tumor cell lines to treatment with cytokines. His interest in mass spectrometry was kindled while performing research under the direction of Dr. John Stults in the Protein Chemistry department at Genentech Inc. from 1989-1991. He earned a B.S. degree in Chemistry at the California Institute of Technology in 1986.

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