David Arnott is a Senior Principal Scientist in the Protein Sciences organization within Genentech Research and Early Development. He was educated at the University of Delaware in Philosophy (B.A.) and Chemistry (B.S.) and in 1994 earned a Ph.D. in Chemistry with Donald Hunt at the University of Virginia, where he investigated mechanisms of peptide collision-induced dissociation and sequenced naturally-processed peptide antigens presented by HIV-infected cells. After a post-doctoral fellowship in the laboratory of John Stults he was appointed Scientist in the Protein Chemistry Department of Genentech in 1997, where he spearheaded the introduction and application of the nascent technologies of proteomics. In 2003 he took over management responsibility for the primary large molecule mass spectrometry laboratory supporting Genentech Research, and oversaw its growth from four members to a staff of 14 Scientists, Research Associates, and Postdoctoral Fellows. Returning to the bench in 2010, he is a Principal Investigator within the Microchemistry, Proteomics, Lipidomics, and Next Generation Sequencing Department. His research interests include epigenetics, cancer immunology, Alzheimer's disease, protein structural analysis, and biomarkers, pursued though technologies such as low-level protein capture, targeted and quantitative proteomics, and a career-spanning preoccupation with tandem mass spectrometry and de novo protein sequencing.