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Prof. Costello received her A.B. in Chemistry from Emmanuel College, and both M.S. and Ph.D. degrees in Organic Chemistry from Georgetown University. After postdoctoral training with Professor Klaus Biemann, a mass spectrometry pioneer at the Massachusetts Institute of Technology, she served for 20 years as the Associate Director of the mass spectrometry resource at MIT. In 1994 she was recruited to Boston University School of Medicine, where she established an internationally recognized Center for Biomedical Mass Spectrometry, which includes the Cardiovascular Proteomics Center funded by the National Heart, Lung, and Blood Institute as well as the Mass



Spectrometry Resource for Biology and Medicine funded by the NCRR (National Center for Research Resources) and the Shared Instrumentation Laboratory. Prof. Costello's research interests are in the determination of the structures and functions of biologically important polymers, with particular emphasis on glycans and glycoconjugates, post-translational modifications of proteins, cardiovascular disease, protein folding disorders, infectious diseases and immunology. She is author or coauthor of over 290 scientific papers. She is currently President of the Human Proteome Organization (HUPO), Vice President of the International Mass Spectrometry Foundation, and a member of the Council of the American Chemical Society and of the boards of HUPO and the International Union of Pure and Applied Chemistry (IUPAC). She serves on the editorial boards of several major journals, and is a member of academic and institutional advisory committees in the US, Puerto Rico and Canada. Prof. Costello has served as President of the American Society for Mass Spectrometry and has received numerous awards for her work, including the 2004 Henry A. Hill Award from the American Chemical Society, the 2008 HUPO prize for Discoveries in Proteomics, and the 2009 Thomson Medal from the International Mass Spectrometry Foundation. She was the 2010 recipient of the Field and Franklin Award from the American Chemical Society for achievements in mass spectrometry, among the highest honors in her field.