



Bottom-up and mid-down approaches for the sequence analysis of RNA

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Dr. D. Fabris is the Harold S. Schwenk Sr. Distinguished Chair in Chemistry and a Professor in the Department of Chemistry of the University of Connecticut. As a student at the University of Padova (Italy) in the late Eighties, he was introduced to mass spectrometry (MS) by Dr. P. Traldi at the National Research Council in Padova, while working on a thesis project aimed at the characterization of the degradation products of preservatives used in cosmetics. In 1992, a move to the University of Maryland Baltimore County (USA) to work with Dr. C. Fenselau involved a conspicuous change of direction towards the development of approaches for protein analysis and the investigation of their interactions with ligands and metals. Starting in 1999, as a faculty at University of Maryland Baltimore County, he established an independent program aimed at the development of enabling MS technologies for the investigation of the structure-function relationships in viral RNA systems. In 2010, he moved to the University at Albany (SUNY) to become one of the founding members of The RNA Institute. At University of Connecticut since 2020, his laboratory specializes in the development of MS-based technologies for epitranscriptomics analysis and the investigation of the effects of RNA post-transcriptional modifications on structure and dynamics of viral RNA.