

The Department of Chemistry
Western University

THE PAUL de MAYO AWARD LECTURE

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Seattle Genetics Inc.

Transitioning from Grad School to Industry: Protein Conformational Dynamics Explored by HDX Mass Spectrometry

Proteins are nanomachines that carry out countless tasks in every living organism. To perform these functions, the linear amino acid chain of each protein has to fold into a specific three-dimensional structure. Misfiling and aggregation are associated with diseases such as Alzheimer's and Parkinson's. At the same time, proteins in solution are highly dynamic and always sampling different conformational states which can interconvert with each other. Functions of protein are ultimate