

Biological Sciences

The Evolution from Protein Chemistry to Proteomics Basic Science to Clinical Application

Roger L. Lundblad

Largely driven by major improvements in the analytical capability of mass spectrometry, proteomics is being applied to broader areas of experimental biology. However, while it has already eclipsed solution protein chemistry as a discipline, it is still essentially an extension of classical protein chemistry, owing much of its maturation to prior contributions.

The Evolution from Protein Chemistry to Proteomics: Basic Science to Clinical Application, in strengthening the connection between solution protein chemistry and proteomic technology, provides a different perspective than other reviews. Towards this end, Roger Lundblad, a long-time leader in protein chemistry who has worked in both academics and industry, brings together some seemingly disparate areas into a single volume. Discussing analytical, expression, and clinical proteomics, Dr. Lundblad provides coverage that is uniquely rich in detail. He applies this detail to sample preparation for proteomic analysis. He also presents specifics on the prefractionation of samples and provides comprehensive reviews covering the chemical modification of proteins, leading up to and including its use in proteomics.

Engaging in discussions found nowhere else, ***The Evolution from Protein Chemistry to Proteomics***

- Looks at the use (and misuse) of protease inhibitors in sample preparation
- Delves into the application of clinical chemistry essentials, such as the index of individuality
- Investigates those areas of proteomics research critical to assay validation
- Expands on the clinical applications of proteomics, emphasizing the development of diagnostic assays

A bestselling author, Dr. Lundblad utilizes as much classical protein chemistry literature as possible in providing an intellectual basis for proteomics that merges current concepts with existing literature, while providing the technical detail necessary for the effective commercialization of proteomics.



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