Introductory Experiments on Biomolecules and their Interactions

Description: Introductory Experiments on Biomolecules and their Interactions provides a novel approach to teaching biomolecules in the lab. While featuring the requisite fundamentals, it also captures the author's experience in industry, thus providing unique, up-to-date experiments which take the learning experience one-step further.

The text parallels lectures using a standard biochemistry undergraduate text. Unlike most current lab manuals available in the market which simply emphasize an introduction of techniques, this lab manual provides students with opportunities to demonstrate and prove the knowledge and theories they learn from class.

- Features quantitative analysis of RNA degradation by RNase
- Contains problem sets, calculations, and references for each lab fully immersing students in the learning process
- Includes instruction on how to maintain a lab notebook and write a formal lab report
- Provides hands-on engagement with the four major types of biomolecules and "real-life and better applied? examples of molecular interactions

Contents: Foreword and Introduction Laboratory safety policies, notebook, lab report formatting & other expectations
Experiment 1: An introduction to basic math and operations in the biomolecular laboratory Experiment 2: Buffer preparation and pH Experiment 3: Amino acid properties and an introduction to chromatography Experiment 4: Rapid purification, gel electrophoresis and enzyme activity assay of the firefly protein enzyme luciferase Experiment 5: Hexokinase and G6DH catalyzed reactions of glucose measurement Experiment 6: Polymerase chain reaction and DNA sequence analysis Experiment 7: Investigating protein:nucleic acid interactions by electrophoretic mobility shift assay (emsa) Experiment 8: RNA quantification and degradation kinetics Experiment 9: Microscale preparation of liposome under mock biotechnology conditions: testing its protein interaction Experiment 10: Preparation and characterization of a fluorescently tagged liposome-protein-DNA particle as a simple model "artificial cell?"
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