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Laboratory Guide to Biochemistry, Enzymology, and Protein Physical Chemistry

By Lemaire, Marc / Chabaud, Raymond

Book Condition: New. Publisher/Verlag: Springer, Berlin | A Study of Aspartate Transcarbamylase | The study of a single well-chosen substance, here aspartate transcarbamylase, can provide an excellent basis for a laboratory course. The student is introduced to a variety of scientific ideas and to many experimental and interpretive techniques. This enzyme is readily available, is relatively stable, has an extensive literature, and its behavior has many facets: substrate inhibition, a large change in structure upon homotropic activation by substrates, allosteric stimulation by ATP, allosteric inhibition by CTP synergistic with VTP, positive cooperativity for substrates, negative cooperativity for CTP binding, and dissociation and reassembly of subunits C and R2 from the holoenzyme C₁5. In addition 36 to the known biochemical aspects of these properties, the results obtained here can be interpreted in the light of the high-resolution X-ray diffraction structures of the T and R forms, the low-angle X-ray scattering results, and the large number of mutants now available by recombinant DNA methods. Future development of this course could also involve part of these methods, as well as the carefully chosen experiments described here. This approach resembles research more than the approaches one usually finds in...



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