



Cooperativity and Regulation in Biochemical Processes

Arieh Ben-Naim

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This book evolved from a graduate course on applications of statistical thermodynamics to biochemical systems. Most of the published papers and books on this subject used in the course were written by experimentalists who adopted the phenomenological approach to describe and interpret their results. Two outstanding papers that impressed me deeply were the classical papers by Monod, Changeux, and Jacob (1963) and Monod, Wyman, and Changeux (1965), where the allosteric model for regulatory enzymes was introduced. Reading through them I felt as if they were revealing one of the cleverest and most intricate tricks of nature to regulate biochemical processes. In 1985 I was glad to see T. L. Hill's volume entitled *Cooperativity Theory in Biochemistry, Steady State and Equilibrium Systems*. This was the first book to systematically develop the molecular or statistical mechanical approach to binding systems. Hill demonstrated how and why the molecular approach is so advantageous relative to the prevalent phenomenological approach of that time. On page 58 he wrote the following (my italics): The naturalness of Gibbs' grand partition function for binding problems in biology is evidenced by the rediscovery of what is essentially the grand partition function for this particular type of problem by various physical biochemists, including E. Q. Adams, G.

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