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Nota di contenuto	Frontmatter -- Preface -- Contributing authors -- Table of contents -- 1 The reaction mechanisms of Groups A and B flavoprotein monooxygenases / Ballou, David P. / Entsch, Barrie -- 2 Flavin-dependent monooxygenases in siderophore biosynthesis / Robinson, Reeder M. / Sobrado, Pablo -- 3 The flavin monooxygenases / Montersino, Stefania / Berkel, Willem J. H. van -- 4 Structure and catalytic mechanism of NADPH-cytochrome P450 oxidoreductase: a prototype of the diflavin oxidoreductase family of enzymes / Kim, Jung-Ja P. / Shen, Anna L. / Xia, Chuanwu -- 5 The xanthine oxidoreductase enzyme family: xanthine dehydrogenase , xanthine oxidase , and aldehyde oxidase / Nishino, Takeshi / Okamoto, Ken / Eger, Bryan T. / Pai, Emil F. -- 6 Assimilatory nitrate reductase / Hille, Russ -- 7 Succinate dehydrogenase (Complex II) and fumarate reductase / Cecchini, Gary / Maklashina, Elena / Iverson, Tina M. -- 8 Flavoprotein disulfide reductases and structurally related flavoprotein thiol/disulfide-linked oxidoreductases / Miller, Susan M. -- 9 Flavoenzymes in pyrimidine metabolism / Palfey, Bruce A. -- 10 Excited state electronic structure of flavins and flavoproteins from

theory and experiment / Kodali, Goutham / Stanley, Robert J. -- 11 Structural properties of the alkanesulfonate monooxygenase system that dictate function / Robbins, John M. / Xiong, Jingyuan / Ellis, Holly R. -- 12 Single molecule methods to study flavoproteins / Gómez-Moreno, Carlos / Lostao, Anabel -- 13 Applications of Saccharomyces pastorianus Old Yellow Enzyme to asymmetric alkene reductions / Walton, Adam Z. / Stewart, Jon D. -- 14 Contributions of protein environment to the reduction potentials of flavin-containing proteins / Ishikita, Hiroshi -- 15 Methods based on continuum electrostatics and their application to flavoproteins - a review / Ullmann, G. Matthias / Dumit, Verónica I. / Bombarda, Elisa -- 16 Flavoproteins and blue light reception in plants / Paulus, Bernd / Bajzath, Csaba / Weber, Stefan / Schleicher, Erik -- 17 Ultrafast dynamics of flavins and flavoproteins / Li, Jiang / Wang, Lijuan / Zhong, Dongping -- Index

Sommario/riassunto

The dynamic field of flavin and flavoprotein biochemistry has seen rapid advancement in recent years. This comprehensive two volume set provides an overview of all aspects of contemporary research in this important class of enzymes. Topics treated include flavoproteins involved in energy generation, signal transduction and electron transfer (including respiration); oxygen activation by flavoproteins; the biology and biochemistry of complex flavoproteins; flavin and flavoprotein photochemistry/photophysics as well as biotechnological applications of flavoproteins. Recent developments in this field include new structures (including those of large membrane-integral electron transfer complexes containing FMN or FAD), elucidation of the role of flavoproteins in cell signalling pathways (including both phototaxis and the circadian cycle) and important new insights into the reaction mechanisms of flavin-containing enzymes. This volume focusing on complex flavoproteins and physical methods is an essential reference for all researchers in biochemistry, chemistry, photochemistry and photophysics working on flavoenzymes.