Record Nr. UNINA9910830041303321 The ubiquitous roles of cytochrome P450 proteins [[electronic resource] **Titolo** /] / edited by Astrid Sigel, Helmut Sigel, and Roland K.O. Sigel Pubbl/distr/stampa Chichester,: John Wiley, c2007 **ISBN** 1-280-85473-1 9786610854738 0-470-02815-7 0-470-02814-9 Descrizione fisica 1 online resource (680 p.) Collana Metal ions in life sciences, , 1559-0836; ; v. 3 Altri autori (Persone) SigelAstrid SigelHelmut SigelRoland K. O Disciplina 572.6 572.7 Soggetti Cytochrome P-450 Cytochromes Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Metal Ions in Life Sciences; Historical Development and Perspectives of the Series: Preface to Volume 3: Contents: Contributors to Volume 3: Titles of Volumes 1-44 in the Metal Ions in Biological Systems Series; Contents of Volumes in the Metal Ions in Life Sciences Series; 1 Diversities and Similarities in P450 Systems: An Introduction; 1. Oxygenases: Mediators of Biochemical Diversity; 2. P450 Superfamily: Diversity at the Sequence Level; 3. Diversity of P450 Structures: Folds and Conformations for Functions; 4. Diversity in P450 Mechanisms; 5. Diversity in Regulation Across the Superfamily 6. Diversity in the Evolution of Common Metabolic Functions7. Summary and Outlook; Acknowledgments; Abbreviations; References; 2 Structural and Functional Mimics of Cytochromes P450; 1. Introduction; 2. Iron Porphyrins Carrying a Thiolate or Modified Thiolate Ligand; 3. Structurally Remote P450 Mimics; 4. Concluding Remarks;

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Sommario/riassunto

Helmut Sigel, Astrid Sigel and Roland K.O. Sigel, in close cooperation with John Wiley & Sons launch a new Series "Metal Ions in Life Sciences". There exists a whole range of books on Cytochromes P450, but none with the focus of this volume. This new volume in the Series concentrates on current hot topics in the area and tries to work out the underlying common developments. As a result the reader will find a systematic account of new results in this exciting research area. The table of contents gives an idea on the wide span of chapters, starting with overviews and the presentation of spec