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Titolo	Flavins and Flavoproteins : Proceedings of the Eighth International Symposium, Brighton, England, July 9-13, 1984 // R. C. Bray, P. C. Engel, S. G. Mayhew
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	van / Müller, Franz -- Kinetic mechanism of the reductive half of reaction catalysed by sailcylate hydroxylase / Wang, Lee-Ho / Tu, Shiao-Chun -- The pH dependence of enzyme-phenol complexes of phenol hydroxylase / Neujahr, Halina Y. -- Differential induction and characterization of flavoprotein hydroxylases in Pseudomonas cepacia / Hamzah, Riyad Y. / Tu, Shiao-Chun -- Steroid monooxygenase from Cylindrocarpon radicum. An FAD-containing Baeyer-Villiger type oxygenase / Itagaki, Eiji / Katagiri, Masayuki -- Unusual properties of the flavocytochrome p-cresol methylhydroxylase / McIntire, William S. / Koerber, Steven C. / Bohmont, Craig W. / Singer, Thomas P. -- Identification of the luciferase-bound flavin-4a-hydroxide as the primary emitter in the bacterial bioluminescence reaction / Kurfürst, Manfred / Hastings, J. Woodland / Ghisla, Sandro / Macheroux, Peter -- Studies on the bacterial luciferase reaction: isotope effects on the light emission. Is a "CIEEL" mechanism involved? / Macheroux, Peter / Ghisla, Sandro / Kurfürst, Manfred / Hastings, J. Woodland -- Probes for the active site of bacterial luciferase / McCapra, Frank / Walpole, Christopher S. J. / Street, Ian P. -- The cellobiose oxidoreductases of Sporotrichum pulverulentum / Morpeth, Fraser F. -- The equilibration of reducing equivalents within milk xanthine oxidase / Hille, Russ --

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in DNA repair / Schuman Jorns, Marilyn / Sancar, Gwendolyn B. / Sancar, Aziz -- Electron transfer to nitrogenase in *K-pneumoniae* nifF gene cloned and the gene product, a flavodoxin, purified and partially characterised / Deistung, J. / Hill, S. / Thorneley, R.N.F. / Cannon, F. / Cannon, M. -- Practical Applications of Flavoprotein Studies -- In vitro synthesis of (bio)chemicals using flavin-containing enzymes / Laane, Colja / Hilhorst, Riet / Spruijt, Ruud / Dekker, Koen / Veeger, Cees -- Flavin cofactors covalently attached to electron-conducting supports: electrochemical and enzyme activity / Wingard, Lemuel B. / Narasimhan, Krishna / Miyawaki, Osato -- Luminometric determination of immunoabsorbed flavoproteins and of flavin adenine dinucleotide / Hinkkanen, Ari / Decker, Karl -- Flavins as labels in immunoassays: I. Design and synthesis of flavin labels / Albarella, J.P. / Morris, D.L. / Yip, K.F. -- Flavins as labels in immunoassays: II. Properties of flavin labels and their use in immunoassay / Morris, David L. / Albarella, James P. -- Author Index -- Subject Index -- Backmatter -- Chemical modification of phenol hydroxylase by p-nitrobenzenesulphonyl fluoride / Sejlitz, C. Torsten / Neujahr, Halina Y. -- Studies of 2,5-diketocamphane monooxygenase from *Pseudomonas putida* ATCC 17453 / Taylor, David G. / Trudgill, Peter W. -- Recent progress in bioluminescence: cloning of the structural genes encoding bacterial luciferase, analysis of the encoded sequences, and crystallization of the enzyme / Baldwin, Thomas O. / Johnston, Timothy C. / Swanson, Rosemarie -- Probing the bacterial luciferase aldehyde site by affinity and photoaffinity labeling / Tu, Shiao-Chun / Fried, Aaron -- The catalytic turnover of bacterial luciferase produces a quasi-stable species of altered conformation / AbouKhair, Nabil K. / Ziegler, Miriam M. / Baldwin, Thomas O. -- Electron microscopy and X-ray diffraction studies on heavy riboflavin synthase from *Bacillus subtilis* / Ladenstein, Rudolf / Meyer, Birgit / Huber, Robert / Labischinski, Harald / Bartels, Klaus / Bartunik, Hans-Dieter / Bachmann, Luis / Ludwig, Heide C. / Bacher, Adelbert -- Heavy riboflavin synthase from *Bacillus subtilis*. Primary structure and reaggregation of the B subunits / Ludwig, Heide C. / Lottspeich, Friedrich / Henschen, Agnes / Ladenstein, Rudolf / Bacher, Adelbert -- Enzyme Reaction Mechanisms -- Mechanism of  $\alpha$ -dehydrogenation of fatty acid CoA derivatives by flavin enzymes / Ghisla, Sandro -- Butyryl-CoA dehydrogenase: Aspects of acceptor and substrate specificity / Engel, Paul C. / Williamson, Gary / Shaw, Lee -- Oxygen reactivity of butyryl-CoA dehydrogenase from *Megasphaera elsdenii* and from ox liver mitochondria / Ellison, Patricia / Shaw, Lee / Williamson, Gary / Engel, Paul C. -- Suicide inactivation of short-chain acyl-CoA dehydrogenases by propionyl-CoA. Formation of a substrate-flavin adduct / Shaw, Lee / Engel, Paul C. -- Structure of the flavin N-5 adduct free radical obtained following inhibition of short-chain acyl-CoA dehydrogenase by propionyl-CoA / George, Graham N. / Shaw, Lee / Bray, Robert C. / Engel, Paul C. -- Purification and properties of five distinct acyl-CoA dehydrogenases from rat liver mitochondria / Ikeda, Yasuyuki / Ikeda, Kazuko O. / Tanaka, Kay -- Mechanism of action of short-chain, medium-chain and long-chain acyl-CoA dehydrogenases isolated from rat liver / Ikeda, Yasuyuki / Hine, David / Ikeda, Kazuko O. / Tanaka, Kay -- Inactivation of pig kidney general acyl-CoA dehydrogenase by 2-alkynoyl-CoA derivatives / Freund, Kurt / Mizzer, John P. / Thorpe, Colin -- On the inactivation of general acyl-CoA dehydrogenase from pig kidney by methylenecyclopropyl-acetyl-CoA, a metabolite of hypoglycin / Zeller, Hans-Dieter / Ghisla, Sandro -- Structure-function correlation in  $\beta$ -oxidation enzymes / Rojas, Camilo / Gustafson, William / Schmidt, Jack / Domanski, Dan / Feinberg, Benjamin A. / McFarland, James T. -- Purification and

characterization of glutaryl-CoA dehydrogenase, electron transfer flavoprotein and ETF-CoQ oxidoreductase from *Paracoccus denitrificans* / Husain, Mazhar / Steenkamp, Daniel J. -- Reactions of ETF and ETF-CoQ oxidoreductase / Steenkamp, D.J. / Ramsay, R.R. / Husain, M. -- Correlation between redox state of ETF and dehydrogenation of octanoyl-CoA / Hall, Carole L. -- Some observations on an acrylyl-CoA reductase from *Clostridium kluyveri* and an NADH-dependent fumarate reductase from *Enterobacter agglomerans* / Sedlmaier, Helmut / Bühler, Mathias / Feicht, Richard / Bader, Johann / Simon, Helmut -- Characterization of the mode of electron transport of NADPH-adrenodoxin reductase / Yamano, Toshio / Nonaka, Yasuki / Fujii, Shigeru -- Studies on forward and reverse reactions of adrenodoxin reductase by electronic and NMR spectroscopy / Nonaka, Y. / Fujii, S. / Yamano, T. -- Transient kinetics of ferredoxin-NADP<sup>+</sup> reductase reaction / Yoshikawa, Shinya / Ohnishi, Norihiro / Morigiwa, Aiko / Takeshima, Katsuhito / Matsumoto, Midori / Nishiyama, Kyoko / Matsubara, Hiroshi / Kodo, Keiun -- Some new ideas about the possible regulation of redox potentials in flavoprotein, with special reference to flavodoxins / Moonen, Chrit T.W. / Vervoort, Jacques / Müller, Franz -- Methylenetetrahydrofolate reductase: an imperfect enzyme? / Vanoni, Maria A. / Matthews, Rowena G. -- Probing the catalytic mechanism of glutathione reductase with 2,4,6-trinitrobenzenesulphonate / Carlberg, Inger / Mannervik, Bengt -- Multifunctionality of yeast glutathione reductase / Tsai, C.S. / Godin, J.R.P. / Tsai, Y.H. -- The reaction between NADPH and mercuric reductase / Sahlman, Lena / Lindskog, Sven / Lambeir, Anne-Marie / Dunford, H. Brian -- Dehydrohalogenation and intermolecular hydrogen transfer reactions catalyzed by some lactate-oxidizing enzymes / Lederer, Florence -- On the mechanism of inactivation of flavocytochrome b<sub>2</sub> (baker's yeast) by acetylenic substrates / Pompon, Denis / Lederer, Florence -- Intermolecular hydrogen transfer during transhydrogenation catalysed by flavocytochrome b<sub>2</sub> and lactate oxidase / Urban, Philippe / Lederer, Florence -- Product binding as modulator of flavin redox parameters: a mechanism of activity control in dehydrogenase-e-transferase? / Labeyrie, Françoise / Janot, Jean-Marc / Tegoni, Mariella -- T-jump investigation of intramolecular electron exchanges in *Hansenula anomala* yeast flavocytochrome b<sub>2</sub>, L-lactate-cytochrome c oxidoreductase / Tegoni, Mariella / Labeyrie, Françoise / Silvestrini, Maria Chiara / Brunori, Maurizio -- A pulse radiolysis study of flavocytochrome b<sub>2</sub>: differences in reactivity with carboxylate radicals between flavin and haem b<sub>2</sub> / Capeillère-Blandin, Chantal / Ferradini, Christiane -- The distribution of reducing equivalents among some species in succinate dehydrogenase upon reduction by succinate / Pagani, Silvia / Bonomi, Franco -- Ionic species of the flavin and the catalytic cycle of succinate dehydrogenase / Bonomi, Franco / Pagani, Silvia -- ESR spectroscopic studies of succinate dehydrogenase and fumarate reductase from *Escherichia coli* / Cammack, Richard / Patil, Daulat S. / Condon, Caro / Owen, Peter / Cole, Stewart T. / Weiner, Joel H. -- Fumarate reductase from *Escherichia coli* requires the frdC and frdD gene products for quinone reductase activity / Cecchini, Gary / Ackrell, Brian A. C. / Kearney, Edna B. / Gunsalus, Robert P. -- Glutamate synthase from *Azospirillum brasilense* / Ratti, Sabina / Curti, Bruno / Zanetti, Giuliana -- Oxidation-reduction properties of glycolate oxidase / Pace, Charles / Stankovich, Marian -- Studies with the flavin-dependent alcohol oxidase from yeast: properties and catalytic mechanism / Geissler, Johanna / Kroneck, Peter M.H. / Ghisla, Sandro -- Pulse radiolysis studies on the formation and decay of the flavin 4a-

hydroperoxide species of glucose oxidase / Anderson, Robert F. / Massey, Vincent / Schopfer, Lawrence M. -- E.coli pyruvate oxidase: a hysteretic enzyme / Mather, Michael W. / Gennis, Robert B. -- Mechanism and functionality of FMN in liver pyridoxine (pyridoxamine) 5'-phosphate oxidase / Bowers-Komro, Delores M. / McCormick, Donald B. -- Enzymatic properties of yeast pyridoxamine-P oxidase / Tsuge, Haruhito / Okada, Toshitaka / Nakane, Izumi / Uchida, Shinji / Sugiyama, Reiko / Ohashi, Kazuji -- A photo-labelling reagent of brain pyridoxine-5-P oxidase / Churchich, J. E. -- Non-stereospecific reduction of monoamine oxidase from bovine liver by analogs of amphetamine / Weyler, Walter / Salach, James I. / Coutts, R.T. / Baker, G.B. -- The kinetics of NADPH-dependent reduction of FAD and cytochrome b in a solubilised preparation of the superoxide generating oxidase of neutrophils / Cross, Andrew / Parkinson, John / Jones, Owen -- Flavoprotein monooxygenases / Ballou, David P. -- The nature of the 4a-hydroperoxyflavin in the mammalian flavin-containing monooxygenase / Jones, Kenneth / Ballou, David P. -- The effect of pH and ionic strength on the binding of NADPH and NADPH analogues to p-hydroxybenzoate hydroxylase from *Pseudomonas fluorescens*: the importance of monopole-monopole and monopole-dipole interactions / Wijnands, Robert A. / Leeuwen, Johan W. van / Berkel, Willem J.H. Frontmatter -- Preface / Bray, R.C. / Engel, P.C. / Mayhew, S.G. -- Organising Committee/Local Committee/Acknowledgements -- Contents -- Participants -- Flavin Chemistry -- The influence of hydrogen bond formation with the N(l) atom on the orbital structure of flavin / Müller, Franz / Eweg, Jan Kees / Szczesna, Viola / Hesper, Ben -- Spectral and photochemical properties of alloxazines / Koziol, Jacek / Koziolowa, Anna / Bab, Wojciech / Dawidowski, Jan / Panek-Janc, Danuta / Stroiska, Magorzata / Szczesna, Violetta / Szymusiak, Henryk / Tyrakowska, Boena -- ...-interactions of flavins : novel coenzyme models of the cyclophane type / Zipplies, Matthias F. / Staab, Heinz A. -- A laser flash photolysis study of the triplet states of lumichromes / Heelis, Paul F. / Phillips, G. O. -- The dark formation of radicals in flavinium cation/acid systems / Addink, R. / Mager, H.I.X. -- ENDOR studies on flavin radicals / Bock, Michael / Elsner, Martin / Kurreck, Harry -- On the role of some flavin adducts as one-electron donors / Mager, H.I.X. / Addink, R. -- Photoinactivation of flavin redox catalysis: the reductive flavin photoadduct formation / Ott, Ulrich / Traber, Rainer / Kramer, Horst E.A. -- Flavin oxygen chemistry brought to date / Bruice, Thomas C. -- Pulse radiolysis studies on the equilibria between reduced and oxidized free flavin species and the effect of molecular oxygen / Anderson, Robert F. -- Effect of pH on the oxidation-reduction properties of 8 - imidazole flavins / Williamson, Gary / Edmondson, Dale E. -- Studies of intermediates in reactions of flavins and sulphhydryl compounds / Surdhar, P.S. / Armstrong, D.A. -- A kinetic study on the acid-catalysed phosphate migration in riboflavin phosphates / Nielsen, Peter / Rauschenbach, Peter / Bacher, Adelbert -- Chemical structure of neoflavin / Matsui, Kunio / Kasai, Sabu -- Flavoprotein Structure -- Binding mode and action of FAD in glutathione reductase / Schulz, G.E. -- Active site chemical modification and sequencing of flavoproteins / Williams, Charles H. / Arscott, L. David / Swenson, Richard P. -- Molecular genetic approaches to the study of *E. coli* flavoproteins / Guest, J. R. / Rice, D. W. -- Glutathione reductase: mutation, cloning and sequence analysis of the gene in *E. coli* / Greer, Shaun / Perham, Richard N. -- The coenzyme binding site of glutathione reductase. Correlation of X-ray studies with kinetic data / Pai, Emil F. / Horn, Elke / Schulz, Georg E. -- <sup>13</sup>C-NMR study on the active sites of lipoamide dehydrogenase and

glutathione reductase / Berg, Willy A.M. van den / Vervoort, Jacques / Moonen, Chrit T.W. / Müller, Franz / Carlberg, Inger / Mannervik, Bengt -- X-ray crystallographic studies on lipoamide dehydrogenase from *Azotobacter vinelandii* / Schierbeek, A.J. / Drenth, J. / Hol, W.G.J. -- Mobility of lipoamide dehydrogenase in and out of the pyruvate dehydrogenase complex from *Azotobacter vinelandii* / Kok, Arie de / Visser, Antonie J.W.G. -- Partial amino acid sequence of pig heart lipoamide dehydrogenase / Arscott, L. David / Berman, Martin / Williams, Charles H. -- The amino acid sequence encompassing the active site histidine residue of lipoamide dehydrogenase from *Escherichia coli* labelled with a bifunctional arsenoxide / Holmes, Charles F.B. / Stevenson, Kenneth J. -- Inactivation of pig heart lipoamide dehydrogenase by 1,3-dibromoacetone / Lee, James S. / Williams, Charles H. -- The evolution of mercuric reductase, and a redox transfer model for mercuric ion detoxification in bacteria / Brown, Nigel L. / Goddette, Dean -- Structural studies on ferredoxin-NADP<sup>+</sup> oxidoreductase from *Spirulina*, a blue-green alga / Wada, Keishiro / Yao, Yoshio / Tamura, Toshiaki / Matsubara, Hiroshi / Kodo, Keiun -- The amino acid sequence and partial tertiary structure of ferredoxin-NADP<sup>+</sup> oxidoreductase from spinach / Karplus, P. Andrew / Herriott, Jon R. / Walsh, Kenneth A. -- On the nature of ferredoxin: ferredoxin-NADP<sup>+</sup> reductase complex / Shin, Masateru / Sakihama, Naoko -- Properties of a cross-linked complex between ferredoxin-NADP<sup>+</sup> reductase and ferredoxin / Zanetti, Giuliana / Curti, Bruno -- On the enigma of old yellow enzyme's spectral properties / Eweg, Jan K. / Müller, Franz / Berkel, Willem J.H. van / Hesper, Ben -- "On the enigma of old yellow enzyme's spectral properties" / Massey, V. / Schopfer, L. M. / Dunham, W. R. -- NMR studies on the old yellow enzyme / Beinert, Wolf-Dieter / Rüterjans, Heinz / Müller, Franz -- Structural and kinetic characteristics of dimethylglycine dehydrogenase and sarcosine dehydrogenase / Cook, Robert J. / Porter, David H. / Misono, Kunio S. / Wagner, Conrad -- Evidence for two spatially distinct domains on each subunit of methylenetetrahydrofolate reductase / Matthews, Rowena G. / Vanoni, Maria A. / Khani, Shahrokh / Hainfeld, James F. / Wall, Joseph -- Structure of NADH-cytochrome b<sub>5</sub> reductase of human erythrocytes / Yubisui, Toshitsugu / Miyata, Toshiyuki / Iwanaga, Sadaaki / Tamura, Minoru / Yoshida, Satoshi / Takeshita, Masazumi -- Structural comparison of the succinate dehydrogenase and fumarate reductase of *Escherichia coli* / Guest, J. R. / Darlison, M. G. / Wilde, R. J. / Wood, D. -- Lack of assembly of succinate and NADH-ubiquinone oxidoreductases in iron-deficient rat skeletal muscle mitochondria / Ackrell, Brian A.C. / Cochran, Bruce / Larson, Kent / Kearney, Edna B. / Maguire, John J. / Dallman, Peter R. -- Crystal structure study of trimethylamine dehydrogenase / Mathews, F. Scott / Lim, Louis W. / Shamala, N. -- The flavin domain of assimilatory NADH: nitrate reductase from *Chlorella vulgaris* / Solomonson, Larry P. / Barber, Michael J. -- Polarized absorption spectra of flavocytochrome b<sub>2</sub> single crystals / Mozzarelli, Andrea / Tegoni, Mariella / Rossi, Gian Luigi -- FMN-protein interactions in flavodoxin from *A. nidulans* / Ludwig, Martha L. / Patridge, Katherine A. / Tarr, George -- Photochemical formation of a stable red derivative of flavodoxin / Mayhew, Stephen G. / Massey, Vincent -- *Desulfovibrio vulgaris* flavodoxin. A <sup>13</sup>C and <sup>15</sup>N NMR investigation / Vervoort, Jacques / Müller, Franz / LeGall, Jean / Bacher, Adelbert / Sedlmaier, Helmut -- <sup>13</sup>C-NMR study on the interaction of riboflavin with riboflavin-binding protein / Miura, Retsu / Tojo, Hiromasa / Fujii, Shigeru / Yamano, Toshio / Miyake, Yoshihiro -- The structure of glycolate oxidase from spinach / Lindqvist, Ylva / Brändén, Carl-Ivar --

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#### Sommario/riassunto

To celebrate the 270th anniversary of the De Gruyter publishing house, the company is providing permanent open access to 270 selected treasures from the De Gruyter Book Archive. Titles will be made available to anyone, anywhere at any time that might be interested. The DGBA project seeks to digitize the entire backlist of titles published since 1749 to ensure that future generations have digital access to the high-quality primary sources that De Gruyter has published over the centuries.

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2. Record Nr.	UNISA996465443403316
Autore	Luì Jìnhu
Titolo	Modeling and analysis of bio-molecular networks // Jìnhu Luì, Pèi Wáng
Pubbl/distr/stampa	Singapore : , : Springer, , [2020] Â©2020
ISBN	981-15-9144-X
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXI, 464 p. 144 illus., 123 illus. in color.)
Disciplina	572.8
Soggetti	Molecular biology - Data processing Computational biology Bioinformatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 Introduction and Preliminaries -- 2 Reconstruction of Bio-molecular Networks -- 3 Modeling and Analysis of Simple Genetic Circuits -- 4 Modeling and Analysis of Coupled Bio-molecular Circuits -- 5 Modeling and Analysis of Large-scale Networks -- 6 Evolutionary Mechanisms of Network Motifs in PPI Networks -- 7 Identifying Important Nodes in Bio-molecular Networks -- 8 Statistical Analysis of Functional Genes in Human PPI Networks -- 9 Data-driven Statistical Approaches for Omics Data Analysis.
Sommario/riassunto	This book addresses a number of questions from the perspective of complex systems: How can we quantitatively understand the life phenomena? How can we model life systems as complex bio-molecular networks? Are there any methods to clarify the relationships among the structures, dynamics and functions of bio-molecular networks? How can we statistically analyse large-scale bio-molecular networks? Focusing on the modeling and analysis of bio-molecular networks, the book presents various sophisticated mathematical and statistical approaches. The life system can be described using various levels of bio-molecular networks, including gene regulatory networks, and protein-protein interaction networks. It first provides an overview of approaches to reconstruct various bio-molecular networks, and then



discusses the modeling and dynamical analysis of simple genetic circuits, coupled genetic circuits, middle-sized and large-scale biological networks, clarifying the relationships between the structures, dynamics and functions of the networks covered. In the context of large-scale bio-molecular networks, it introduces a number of statistical methods for exploring important bioinformatics applications, including the identification of significant bio-molecules for network medicine and genetic engineering. Lastly, the book describes various state-of-art statistical methods for analysing omics data generated by high-throughput sequencing. This book is a valuable resource for readers interested in applying systems biology, dynamical systems or complex networks to explore the truth of nature.

3. Record Nr.	UNINA9910809777803321
Autore	Li Tarsee
Titolo	The verbal system of the Aramaic of Daniel : an explanation in the context of grammaticalization // by Tarsee Li
Pubbl/distr/stampa	Leiden ; ; Boston, : Brill, 2009
ISBN	1-282-60322-1 9786612603228 90-474-4008-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (216 p.)
Collana	Studies in the Aramaic interpretation of Scripture, , 1570-1336 ; ; v. 8
Disciplina	492/.29
Soggetti	Aramaic language - Verb Aramaic language - Grammar
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 (p. [176]-185) and indexes.
Nota di contenuto	Preliminary Materials / T. LI -- Chapter One. Introduction / T. LI -- Chapter Two. The Suffix Conjugation / T. LI -- Chapter Three. The Active Participle / T. LI -- Chapter Four. The Non-Active Participles / T. LI -- Chapter Five - Participles With Or / T. LI -- Chapter Six. The Prefix Conjugation / T. LI -- Chapter Seven. The Imperative / T. LI -- Chapter Eight. The Infinitive / T. LI -- Chapter Nine. Auxiliaries / T. LI -- Chapter Ten. Overview And Implications / T. LI -- Appendix

**Sommario/riassunto**

This book explains the verbal system of the Aramaic of Daniel in the context of current research on grammaticalization, which, though first mentioned by Meillet in 1912, did not flourish until the beginning of the 1980's, and has only more recently been applied to the study of Ancient Near Eastern languages. Although various aspects of the Aramaic of Daniel have been subject of numerous studies, including a few exhaustive studies on the verbal system in the last century, it remains among the most difficult to explain. The explanation offered here is coherent with the historical development of Aramaic as well as the observable tendencies in the development of human languages in general.

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