
Organized Multienzyme Systems Biotechnology Applied Biochemistry

strategies and perspectives of assembling multi-enzyme systems - examples of enzyme assembly based on dna-bioconjugation are listed in table 1. peptide organized cascade bioreactions have been evolved by nature through bringing heterogeneous enzymes into the cell. **(c? biological chemists, printed in u. s. a ...** - shown to contain a highly organized multienzyme system capable of carrying out the n-glycosylation of newly synthesized proteins. these reactions were studied in isolated vesicles and found to be controlled to a large extent by the availability of a key substrate, dolichyl phosphate (dol-p), as well as by the amount of endogenous polypeptide acceptor present. although in intact vesicles ... **letters to the Editor - cell** - applied to organized multienzyme systems (tibs, nov., 1979, n275). we have employed the term 'enzyme cluster' to denote any physically associated enzyme system of physiological significance [1-3]. this general term includes the following specific entities: membrane-bound enzyme arrays, multienzyme complexes (or aggregates), and so-called 'multifunctional enzymes' [4]. the sense of ... **the cellulosomes: multienzyme machines for degradation of ...** - the cellulosomes: multienzyme machines for degradation of plant cell wall polysaccharides edward a. bayer,¹ jean-pierre belaich,^{2,3} yuval shoham,⁴ and raphael lamed⁵ ¹department of biological ... **structural and functional properties of a multi-enzyme ...** - by counter-current distribution in aqueous two-phase systems, that ribulose 1,5-bisphosphate carboxylase-oxygenase, nadp-glyceraldehyde-3-phosphate dehydrogenase and **cellulosomes structure and ultrastructure** - lar machines or multienzyme complexes that are dedicated to concerted, organized, and efficient catalysis of cellular activities have been described (alberts, 1998). following the pioneering discovery of the ribosome, one of the earliest examples of such a complex to have been described is that of the cellulosome (lamed et al., 1983b). it has been known for many decades that bacteria and fungi ... **the world of brown chemistry vol. 269, no. 26, of for ...** - a multienzyme complex, it has remained unclear how closely the isolated complex reflects a structure that exists within the cell. to answer this question, we have used chemical cross-linking and immunological detection to identify the nearest neighbor(s) of arginyl-trna synthetase both in the isolated, purified complex and in saponin-permeabilized cells, which retain much of the structural ... **isolation of a novel type-i fatty-acid synthetase from ...** - enzyme described in this paper appears to be a typical type-i fatty acid multienzyme which clearly differs from the e. gracilis fatty acid synthetase so far described. instead, it appears to be organized structurally similar to **temperature-induced synthesis of recombinant proteins** - heterologous protein in e. coli leads to plasmid instability [4], contributing to a low level of product formation. the requirement was therefore to be **recognition of the lipoyl domain is the ultimate ...** - recognition of the lipoyl domain is the ultimate determinant of substrate channelling in the pyruvate dehydrogenase multienzyme complex d. dafydd jones, katherine m. stott, pedro a. reche **yst n em current synthetic and i e o r l r u ygo systems ...** - our issue e current synthetic systems bio issn ccs, an open access journal research article editorial pen cresspen ccs current synthetic and systems biology **diversifying carotenoid biosynthetic pathways by directed ...** - accessory light-harvesting components of photosynthetic systems, photoprotecting antioxidants, and regulators of membrane fluidity. as a whole, the natural c 30 and c 40 carotenoid biosynthetic pathways can be organized in a tree-like hierarchy (fig. 1), with the trunk representing the initial, universal step of backbone synthesis catalyzed by a carotenoid synthase and the outward-emanating ... **characterization of a bifunctional enzyme fusion of ...** - the organized enzyme systems exhibited different kinetic or catalytic properties compared with their free counterparts in bulk solution. an attractive alternative approach to these systems is to fuse two enzymes by ligating their structural genes using recombinant dna techniques. this procedure mimics the evolution of naturally occurring bifunctional enzymes, which might have evolved from ... **the pho regulons of bacteria - rd.springer - 0026-2617/02/7105- \$27.00 © 2002 „i- Ònauka 0497 /interperiodica" microbiology, vol. 71, no. 5, 2002, pp. 497-511. translated from mikrobiologiya, vol ... the cellulosome: an exocellular, multiprotein complex ...** - consists of a high-mr multienzyme complex termed cellulosome. hydrolytic components of the cellulosome are organized around a large, noncatalytic glycoprotein termed cipa that acts both as a scaffolding component and a cellulose-binding factor. catalytic subunits of the cellulosome bear conserved, noncatalytic subdomains, termed dockerin domains, which bind to receptor domains of cipa, termed ...

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