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| 1. Record Nr. | UNINA990006232000403321 |
| Autore | Caspari, Otto |
| Titolo | Das Problem uber die Ehe! / Otto Caspari |
| Pubbl/distr/stampa | Frankfurt : F.D. Sanerlander's, 1899 |
| Descrizione fisica | 126 p. ; 24 cm |
| Disciplina | 173 |
| Locazione | FGBC |
| Collocazione | BUSTA 15 2 (25) |
| Lingua di pubblicazione | Non definito |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910530485503321 |
| Autore | De Bartolo Loredana |
| Titolo | Membrane systems : for bioartificial organs and regenerative medicine
// Loredana De Bartolo, Efrem Curcio, Enrico Drioli |
| Pubbl/distr/stampa | Berlin, [Germany] ; ; Boston, Massachusetts : , : De Gruyter, , 2017
©2017 |
| ISBN | 3-11-039088-4
3-11-026801-9 |
| Descrizione fisica | 1 online resource (264 pages) : illustrations |
| Disciplina | 574.875 |
| Soggetti | Membranes (Biology) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Frontmatter -- Preface -- Contents -- 1 Natural and synthetic membranes -- 2 Basic issues in membrane separation for biomedical devices -- 3 Artificial organs -- 4 Blood-membrane interactions -- 5 |

Sommario/riassunto

Membrane processes today play a significant role in the replacement therapy for acute and chronic organ failure diseases. Current extracorporeal blood purification and oxygenation devices employ membranes acting as selective barriers for the removal of endogenous and exogenous toxins and for gas exchange, respectively. Additionally, membrane technology offers new interesting opportunities for the design of bioartificial livers, pancreas, kidneys, lungs etc. This book reviews the latest developments in membrane systems for bioartificial organs and regenerative medicine, investigates how membrane technology can improve the quality and efficiency of biomedical devices, and highlights the design procedures for membrane materials covering the preparation, characterization, and sterilization steps as well as transport phenomena. The different strategies pursued for the development of membrane bioartificial organs, including crucial issues related to blood/cell-membrane interactions are described with the aim of opening new and exciting frontiers in the coming decades. The book is a valuable tool for tissue engineers, clinicians, biomaterials scientists, membranologists as well as biologists and biotechnologists. It is also a source of reference for students, academic and industrial researchers in the topic of biotechnology, biomedical engineering, materials science and medicine.

3. Record Nr.	UNINA9910437844703321
Autore	Venkatachalam Geetha
Titolo	Cyclic beta-glucans from microorganisms : production, properties and applications // Geetha Venkatachalam, Sathyanarayana Gummadi, Mukesh Doble
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	1-283-90870-0 3-642-32995-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (98 p.)
Collana	SpringerBriefs in microbiology, , 2191-5385
Altri autori (Persone)	GummadiSathyanarayana DobleMukesh
Disciplina	572.566
Soggetti	Biochemistry Biodegradation
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.
Nota di contenuto	Cyclic b-Glucans from Microorganisms; Contents; Abbreviations; 1 Introduction; Abstract; 1.1...History of Polysaccharides from Bacteria; 1.2...Cyclic beta -Glucans; 1.3... alpha -Cyclic Glucan; 1.4...Linear Glucans; 1.5...Cyclodextrins; References; 2 Applications of Cyclic beta -Glucans; Abstract; 2.1...In Food; 2.2...Medical Technology; 2.3...As Wound Dressing Material; 2.4...Microparticulate Form of beta -Glucan for Pharmaceutical Application; 2.5...Synthesis of Selenium Nanowires; 2.6...Drug Delivery; 2.7...Enantiomeric Separator; 2.8...In Chiral Technology; 2.9...Chiral Stationary Phase 2.10...Carboxymethylated Cyclic beta -(1,2)-Glucans2.11...Inclusion Complexes; 2.12... beta -D-Glucans Complexation with Zearalenone; 2.13...Inclusion Complex with Paclitaxel; 2.14...Inclusion Complexation with a Plant Flavonoid Luteolin; 2.15...Inclusion Complexation with Naproxen; 2.16...Functionalized beta -(1,3)-Glucan in Carbon Nanotubes; 2.17...Application of Cyclic beta -(1,3),(1,6)-Glucans in Chiral Technology; References; 3 Properties of Cyclic Glucans; Abstract; 3.1...Structure; 3.2...Molecular Biological Function of beta -Glucans in Immunity; 3.2.1 The beta -Glucan Receptor-Dectin-1 3.3...Complex Forming Ability3.4...Cytotoxicity of Cyclic beta -(1,2)-Glucan; References; 4 Analytical Tools for the Characterization of Cyclic

beta -Glucan; Abstract; 4.1...Silica Gel Thin-Layer Chromatography; 4.2...Degree of Polymerization; 4.3...Compositional Analysis of Periplasmic Glucan; 4.4...Glycosidic-Linkage Analysis; 4.5...Arrangement of Linkages; 4.6...Protons and Carbons in Glucan; 4.7...Molecular Weight; 4.8...Functional Groups in Cyclic beta -Glucans; 4.9...Supramolecular Structure; 4.10...Separation of Mixture of Cyclic-beta -Glucan in HPLC; 4.11...CHN Analysis; References
5 Production of Cyclic beta -GlucansAbstract; 5.1...Osmolarity Condition; 5.2...Medium Details; 5.3...Optimization of Medium with Mannitol; 5.4...Effect of Media Components and Operating Conditions; 5.4.1 Carbon; 5.4.2 Nitrogen; 5.4.3 Temperature; 5.4.4 Salt and pH; References; 6 Extraction and Purification of Cyclic beta -Glucan; Abstract; 6.1...Extraction of Cyclic beta -Glucan from Culture Filtrate; 6.2...Isolation and Purification of Osmoregulated Periplasmic Glucans; 6.3...Isolation and Purification of Algal Cyclic Glucans; 6.4...Purification of Cyclic Glucan from Yeast
6.5...Purification Using Column ChromatographyReferences; 7 Mechanism of Cyclic beta -Glucan Production; Abstract; 7.1...Genes Responsible for the Synthesis of Cyclic beta -(1,2)-Glucan in Rhizobiaceae and Agrobacteriaceae; 7.1.1 Genes Responsible for the Production of Cyclic beta -(1,3) Glucan; 7.1.2 Genes Responsible for the Production of Cyclic beta -(1,3)-(1,6)-Glucan; 7.1.3 Genes Responsible for the Production of Cyclic beta -(1,6)-(1,3)-Glucan; 7.2...Genes of Periplasmic Glucans (PGs) of the Proteobacteria; 7.3...Metabolic Pathway of Carbohydrate Metabolism
7.4...Enzymes Involved in Cyclic beta -(1,2)-Glucan Synthesis

Sommario/riassunto

to Cyclic glucans are polysaccharides that are predominantly produced by Agrobacterium, Bradyrhizobium and Rhizobium sp. and widely used in the pharmaceutical and food industries. In this book, the applications, properties, analytical tools, production and genes of four main cyclic -glucans from microorganisms are highlighted and critically evaluated. As biocompatible and biodegradable renewable resources, they have an immense potential for future applications, which has not yet been fully exploited. This concise review will help to bridge this gap.
