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Altri autori (Persone)	YangShang-Tian
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Outlook; References; 2. Bacteria; 3. Yeast
4. Fermentation products from bacteria and yeasts 5. Fermentation processes; 6. Conclusion and outlook; References; 2. Fungal cells as biofactories; 3. Hyphal growth and protein secretion; 4. Fungal growth in submerged culture; 5. Effects of cultivation conditions; 6. Effects of morphology on production and secretion; 7. Immobilized fungal cells; 8. Future of filamentous fungal cells as biofactories; References; 2. Production of macromolecules; 3. Production of small molecules; Acknowledgements; References; 2. Modes of micro-algal cultivation; 3. Thraustochytrids
4. High-value products from thraustochytrids 5. Other applications of thraustochytrids; 6. Utilization of renewable resources; 7. Safety issues; 8. Conclusions; 7 References; 2. Enzymatic treatment of biomass components; 3. Further processing of simple renewable molecules for value-added products; 4. New trends in enzymatic bioprocessing; 5. Summary; References; 3. Chiral molecules from hydrolase; 4. Chiral molecules from enzymes requiring cofactors; 5. Improving enantioselectivity by reaction engineering; 6. Improving chiral synthesis by directed evolution and metabolic engineering
7. Conclusions References; 2. Immobilization techniques; 3. Effects of cell immobilization; 4. Immobilized cell bioreactors; 5. Applications of immobilized cell technology; 6. Conclusion; References; 3. New process development; 4. Water-in-oil cultivation technology; 5. PH-sensitive surfactants for water-in-oil cultivation; 6. Conclusions; References; 2. Carboxylic acid fermentation; 3. Integrated fermentation-separation processes; 4. Summary and outlook; References; 3. Fungal metabolites; 4. Pathway manipulation; 5. Conclusions; References; 3. Advantages and unsolved problems; 4. SSF reactors
5. Conclusions

Sommario/riassunto

Bioprocessing for Value-Added Products from Renewable Resources provides a timely review of new and unconventional techniques to manufacture high-value products based on simple biological material. The current source for most chemicals and materials is petroleum. Anticipation of its limited future availability, along with record high prices has spurred interest in alternatives that will be both sustainable and cost-effective. In a very structured way this book begins by describing the modern technologies that form the basis for creating a bio-based industry. Next it lists the various

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Autore	Cocchiara, Antonella M.
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