
Microbial Processes Products Methods Biotechnology

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replicating and engineering those metabolic pathways in microbial systems for development of ... **global commercialization trends of microbial products and ...** - easy to navigate and to make the information about patented microbial products and processes more readily discoverable. we recently completed a first pass through the usda ars patent collection (nrrl collection, peoria, il). using proprietary text mining methods, we were able to identify global commercialization trends in 162 technology classes over a 70 year time span by following more than ... **a review of microbial enhanced oil recovery: current ...** - microbial eor (meor) processes have several unique characteristics that may provide an economic advantage. microbial processes do not consume large amounts of energy as do thermal processes, nor do they depend on the price of crude oil as many chemical processes do. because microbial growth occurs at exponential rates, it should be possible to produce large amounts of useful products rapidly ... **microbial transformations of natural products - eolss** - methods have been developed for using microorganisms in novel processes of transformations of both natural and synthetic bioactive compounds. microbial transformations make use of enzyme catalyzed reactions with living cells, typically exploiting single chemical reactions like oxidation, reduction, hydrolysis, and degradation, formation of c-c or c-hetero atom bonds. some of the advantages in ... **microbial processing - university of kwazulu-natal** - • genetic methods - microbial strain improvement introduction of sterility to biotechnological processes: 1940s, complicated engineering techniques were applied to the **microbial processes in radioactive waste disposal - skb** - would also guard the environment from the products of radiolysis of water. they would efficiently recombine the oxygen and hydrogen produced by water, thereby buffering the redox downwards. geosphere research several projects, using experimentally independent methods, have pointed out the oxygen reduction capacity of microbes in hard rock aquifers and tunnels. all indicate that a large benefit ... **microbial dynamics and fertility characteristics in ...** - the products obtained from both maturation processes were highly variable in their chemical and biological composition (without following a general pattern). because the results are so heterogeneous, proposing a microbial population as uni- **geophysical signatures of subsurface microbial processes** - radar), magnetic, and seismic methods. the microbial communities themselves are rarely detected, and geophysical methods do not contain the information provided by genomic methods. instead, the physicochemical alter-ation of the solid and liquid phases of soils and rocks that results from microbial activ-ity modifies the electromagnetic and acous-tic properties of porous media, driving geo ...

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