



Introduction To Metabolic And Cellular Engineering, An (Paperback)

By Sonia Del Carmen Cortassa, Juan Carlos Aon, Miguel Antonio Aon

World Scientific Publishing Co Pte Ltd, Singapore, 2012. Paperback. Condition: New. Second Edition. Language: English . Brand New Book. Metabolic and Cellular Engineering (MCE) is more than an exciting scientific enterprise. It has become the cornerstone for coping with the challenges ahead of mankind. Continuous developments, new concepts, and technological innovations will enable us to deal with emerging challenges, and solve problems once thought impossible ten years ago. Challenges in MCE are broad- from unraveling fundamental aspects of cellular function to meeting unsatiated energy and food demands that are rising in parallel with population growth. In charting the progress of MCE during the last decade, we could not help but feel in awe of the enormous strides of progress made from the nascent Metabolic Engineering to the Systems Bioengineering of today. The burgeoning availability of genomic sequences from diverse species has been spectacular. It has become the engine that drives the genetic means for the modification of existing organisms and the generation of synthetic, man-made ones. From the initial attempts at purposeful genetic modification of a cell for the production of valuable compounds, we have now moved on to changing microbes genetically or metabolically. The arsenal of experimental and theoretical tools available...



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