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management, reactor design, scale-up and the formation of processspecific products. Solid fermentation is a traditional cultivation technique of food technology and involves all cultivations of microorganisms on a solid substrate without free liquid phase. In the course of development of Biotechnology it was replaced by liquid cultivation mainly in the western countries. Over the past few years, solid-state fermentation is now becoming more important and has moved more back into focus. Especially, it is suitable for the cultivation of filamentous organisms, like ascomycetes and basidiomycetes, but also for various yeasts and bacteria. The products and applications of solid-state fermentation are as diverse as the microorganisms. They range from enzyme production to the production of antibiotics and pigments to the use in environmental technology and energy production.