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One is a method of synthesizing the entire genome of the fermentation strain as proposed by Venter, famous for his work in human genome sequencing. Another is the minimum genome factory, which provides the basis for breeding a strain whose genome optimizes production of the target material.

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Microbial-based expression systems offer significant advantages over other hosts by offering faster development times, greater yields, and lower production costs, particularly in *E. coli*. However, limitations around expression, glycosylation and central metabolic pathways poses significant challenges. Cambridge Healthtech Institute's 3rd Annual Microbial Production conference examines the latest developments in microbial-based production - from strain development to metabolic engineering

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Another is the minimum genome factory, which provides the basis for breeding a strain whose genome optimizes production of the target material. Each chapter has been written by specialists in academia or by active researchers in industry, creating a work that is informative for researchers interested in the industrialization of novel concepts or technologies by a microbial production system.

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Advances in genetics, genome sequencing and DNA synthesis/assembly make it possible to redesign and artificially synthesize whole genomes . Up to date, three bacterial genomes have been synthesized, that is, the 582-kb *Mycobacterium genitalium* genome and the 1.1-Mb *Mycoplasma mycoides* genome, which can be transplanted into empty *Mycoplasma capricolum* and function to generate live *M. mycoides* cells [21 , 22 ••].

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