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Sommario/riassunto	Biopharmaceuticals are complex macromolecules created through the genetic manipulation of living organisms using gene cloning, recombinant DNA(gene splicing), or fusion technologies. Although small molecule drugs remain the standard treatment for disease, new strategies based on the engineering of proteins, genes and cell as therapeutic agents will revolutionize medicine in the coming decades. More than 20 percent of new medicines launched in 2003 were produced using biotechnology, nearly 80 percent of those under development either use use of biotechnology or are derived from it. The biopharm