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## Today's biotech industry in India

Narayanan Suresh

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Table 1: Recent milestones of Indian biotechnology

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1978	The first Indian biotech company, Biocon, is established in Bangalore
1981	The Center for Cellular & Molecular Biology (CCMB) is founded in Hyderabad
1984	The Institute for Microbial Technology (IMTECH) is established in Chandigarh
1986	The Department of Biotechnology (DBT) is set up by the government of India to promote modern biology and biotechnology
1987	The National Institute of Immunology (NII) set up by DBT
1989	Bangalore Genei starts production of restriction enzymes & other tools for genetics
1991	The National Center for Biological Sciences (NCBS) is established to pursue R&D in molecular biology
1996	Bharat Biotech International Ltd. starts an R&D centre at Genome Valley, Hyderabad
1997	The Center for Biochemical Technology (CBT) is established to focus on bioinformatics and genomics
1998	Shantha Biotech launches India's first recombinant product, a Hep B vaccine Monsanto research establishes an R&D center for plant genomics
1999	DBT approves Monsanto to conduct trials with genetically modified cotton NCBS scientist sets up AVESTHAGEN, a plant genomics company.
2000	The Indian states of Andhra Pradesh, Karnataka, Maharashtra and Tamil Nadu announce biotech initiatives
2001	Reliance sets up Reliance Life Sciences to pursue stem cell based research and product development Gujarat government announces Biotech Venture Capital Fund
2003	Wockhardt launched Wosulin (recombinant human insulin), Biovac -B (hepatitis B vaccine) and Wepox (erythropoitin)
2004	Ocimum Biosolution entered into partnership with US-based Genome Exploration

Table 1: India's top-20 home-grown pharmaceutical companies (left) and top-20 companies including global players (right). For more detailed data see supplementary information online

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Rank 2008	Company	Biotech Revenues in \$ Million	Rank 2008	Company	Biotech Revenues in \$ Million
1	Serum Institute of India	246.75	1	Serum Institute of India	246.75
2	Biocon	228.00	2	Biocon	228.00
3	Panacea Biotech	169.50	3	Panacea Biotech	169.50
4	Nuziveedu Seeds	75.75	4	Nuziveedu Seeds	75.75
5	Rasi Seeds	73.32	5	Rasi Seeds	73.32
6	Indian Immunologicals	49.00	6	NovoNordisk	65.00
7	Mahyco	42.50	7	Novozymes South Asia	56.25
8	Syngene International	40.00	8	Indian Immunologicals	49.00
9	Jubilant	39.75	9	Mahyco	42.50
10	Shantha Biotech	37.50	10	Syngene International	40.00
11	Bharat Serums	35.00	11	Jubilant	39.75
12	Bharat Biotech	31.50	12	Shantha Biotech	37.50
13	Themis Medicare	27.50	13	Bharat Serums	35.00
14	Haffkine Biopharma	22.15	14	EliLilly	34.25
15	Rossari Biotech	20.50	15	Bharat Biotech	31.50
16	Ankur Seeds	18.75	16	Themis Medicare	27.50
17	Advanced Enzymes	17.33	17	Aventis	26.25
18	Ocimum Biosolutions	16.25	18	Haffkine Biopharma	22.15
19	Nath Seeds	15.50	19	Rossari Biotech	20.50
20	Concord Biotech	15.00	20	GlaxoSmithKline	20.10
	Total biotech revenue accounted for by the 20 companies	1221.55			
	Total biotech revenue in the country	2568.50			