

BIOTECHNOLOGY IN HUNGARY AND THE REGION

November 12, 2010

SLING project



Erno Duda President

BIOTECHNOLOGY*

Strong Pharmaceutical Sector Drives Red Biotech

A pharmaceutical industry with local roots

Founded as		Renamed in the 40's	Now owned by	
1901	Gedeon Richter		Independent	
1910	Alka	Chinoin	Sanofi-Aventis	
1912	Rex	Biogal	TEVA	
1912	Phylaxia	Human-Phylaxia	GSK	
1913	Dr. Wander	Egis	Servier	
1927	Alkaloida		ICN	
1950	Drug Res. Inst.	- 3	TEVA	

Int'l R&D and manufacturing sites of seven big pharma companies in the Budapest and Debrecen regions CEDEON RICHTER

Sanofi aventis

Sanofi aventis

AstraZeneca

Source: CONVINCIVE Consulting, 2009



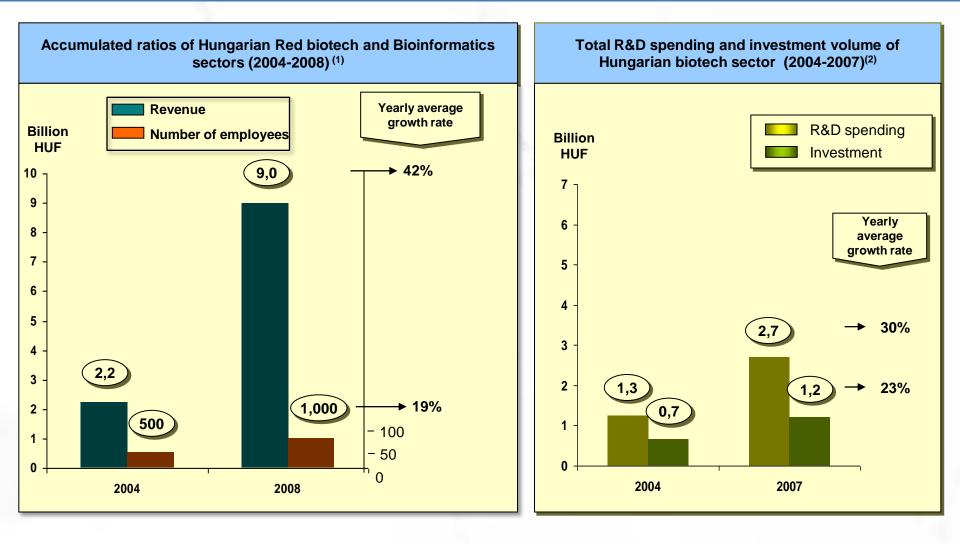
Critical Mass of Biotech Companies



www.hungarianbiotech.org |



The Growth of Biotech Sector in Hungary



¹ Source: HBA and CONVINCIVE Consulting, december 2009

² Source: HBA and CONVINCIVE Consulting, november 2008



The Hungarian Biotech Sector



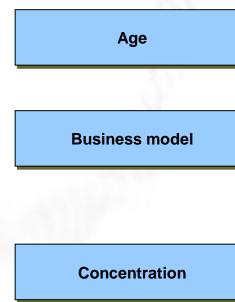
Total	Red biotech	Bio- informatics	Green biotech	White biotech		
~250	150	25	50	30	Identified related research facilities	
~110	37	16	27	31	Identified biotech companies	
~1500	7-800	250	2-300	n.a.	Company employees*	
~15	6-7	2,5	3-4	n.a.	Billion Ft company revenues	

*Data is based on currently ongoing statistical data gathering. Data from Richter Plc. is not included in this table.



Red Biotechnology Company Statistics

	2004	2007	CAGR
Core biotech firms	30	55	22%
Biotech firms in a broader sense	~ 100	~ 150	15%
Core biotech incomes (EUR mn)	8	26	44%
Core biotech R&D expenses (EUR mn)	6	12	30%
Core biotech employees	~ 500	~ 900	22%
Core biotech R&D employees	~ 230	~ 450	25%



- 1/3 founded between 2005 and 2008
- Many pre-competitive micro-ventures with less than 10 employees
- Many still owned by the founders
- · Approx. 75% sells technologies or services to global pharma
- Only approx. 25% develops biotherapies
- Typically targeting global niche markets, where they are market leaders with a handful of employees
- Strong global ties
- 1st 10 companies account for 82% of revenues
- 1st 20 companies account for 97% of revenues

Source: HBA and CONVINCIVE Consulting, 2009



Successful Red Biotech Business Models





What Others Say about Hungary



Hungary Bids for Prime Spot in EU Biotech

May 1 2010 (Vol. 30, No. 9)

"Hungary is the most developed biotech country of all those we studied," adds Ludovic Lacaine, healthcare council director of EuropaBio. "International companies have a strong presence here. There is also a very positive view of biotech in political circles. It is seen as a priority and this has been translated into legal and tax incentives for biotech innovation."



Hungary to Expand Clinical Trial Offering

Mar 24, 2010

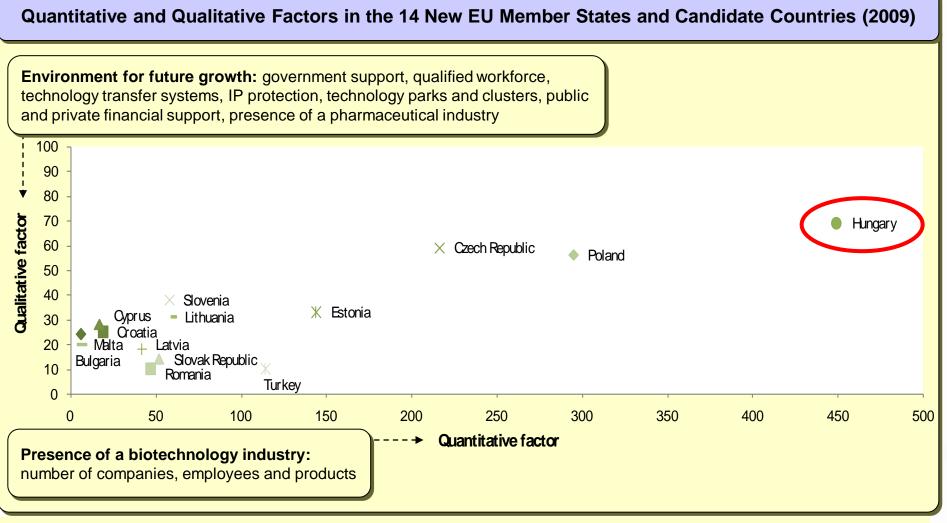
"Hungary is seeking to become a gateway for European clinical trials, according to a report from IMS's <u>Biopharmatiques.</u> The country is currently third in the Central and Eastern European (CEE) states with regard to the numbers of clinical trials conducted..."

SITE Section ONLINE Why Biotech Bloc Mach, 2010

Why Biotech Blooms in Central Europe

"Today, Hungary's biotech sector is small by U.S. and Western European standards, but it is growing, and is the pacesetter among the 12 new EU member countries and two candidate nations..."

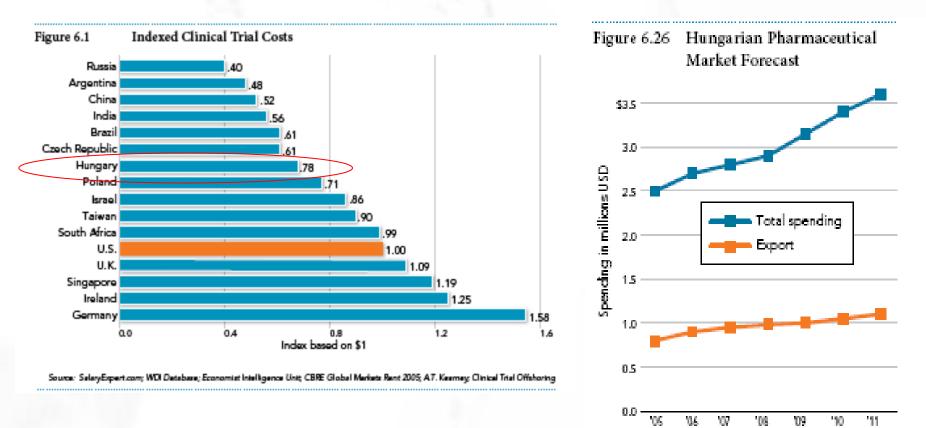




Source: EuropaBio and Venture Valuation: Biotech in the New EU Member States: An Emerging Sector, Biotechnology Report 2009



"Hungary has a proven track record and global reputation for attracting and conducting international clinical trials, with over 300 clinical trials performed each year." ³



³ Source: Biotech 2010 Life Sciences: Adapting for Success, Burill&Company

BIOTECHNOLOGY

Hungarian Biotech Is Worth Investing In

- 1. Strong pharmaceutical sector drives biotech
- 2. A critical mass of biotech companies
- ✓ 3. Solid research and human resource base
- ✓ 4. Emerging sources of capital financing
- ✓ 5. Active governmental support

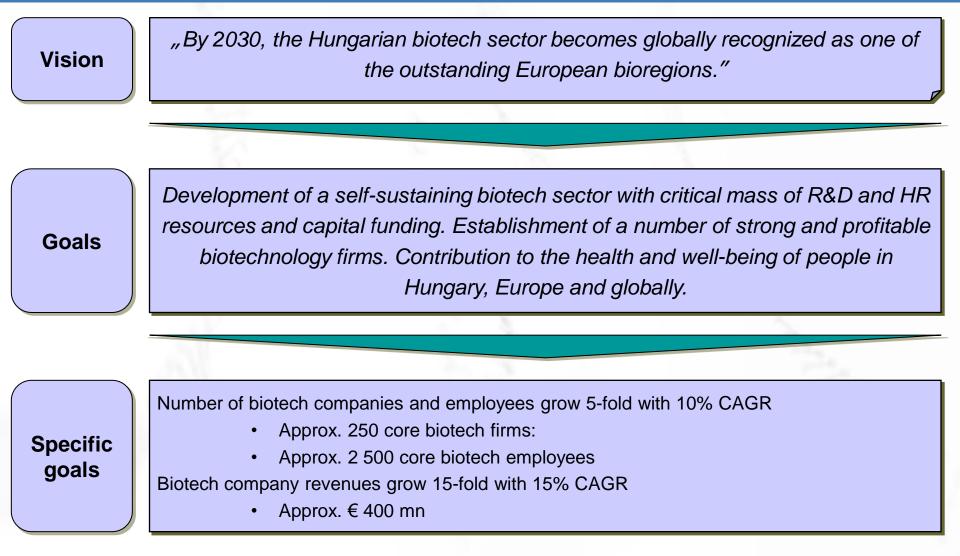
"It is worth investing in Hungary since, in the very recent years, Hungarian researchers have discovered two original molecules, which are in development phase now."

Jean-François Dehecq – worldwide CEO Sanofi-Aventis

Sanofi-Aventis Hungary employs 2,500 people in Hungary and has **invested more than EUR 500 million** in its Hungarian subsidiary since 1991.



Strategic Goals of the Hungarian Biotech Sector Between 2010 and 2030



Source: The Hungarian National Biotechnology Platform (2009)



A National Biotech Strategy (2010-2030) and a Detailed Action Plan (2010-2015)

Five critical challenges and action areas

ACTION 1: Focused development of biotech related basic and applied research

ACTION 2: Development of technology transfer to enable the commercialization of scientific resluts

ACTION 3: Development, attracting and retention of scientific and management talent

ACTION 4: Securing financing for biotech ventures

ACTION 5: Establishment of biotech friendly policy and market conditions

Source: The Hungarian National Biotechnology Platform (2009)



Thank you for your attention!

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