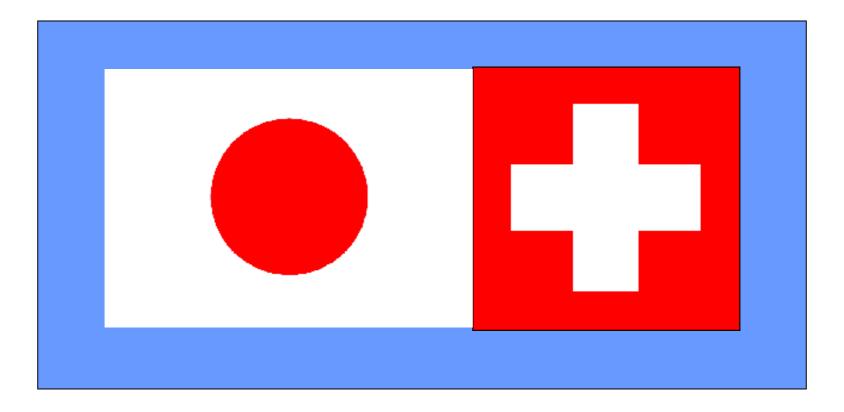


One Nation – One Biotech Cluster

D. P. Alexakis – Swiss Biotech Association







SwissBiotech – Heading towards success !

«The Swiss industry is emerging as a sleeping giant and one to watch in coming years » *Ernst & Young, 2002*

« Switzerland ... has a combined science citation intensity being higher than USA, UK and the other OECD countries »

David A. King, Nature, 15 July 2004, Science Magazine, 20004

« ... Switzerland is probably one of the best places for biotech companies to establish themselves... »

Ernesto Bertarelli, SERONO International SA

Switzerland at a Glance,

- 2004 was globally the 2nd best year in financing
- Record number of FDA approvals for biotech products
- Basilea was the 1st IPO since 2002 in Switzerland; more companies to come in the near future
- Switzerland ranks as number 6 in Europe
- and number 9 worldwide (since 1998)

- CHF 194 million of venture capital found its way into Swiss biotechs, which makes Switzerland rank as number 3 in Europe
- Total of 223 companies (4 less than 2003) which reflects some consolidation trends going on in the industry
- Still tough times for early stage, not product focused companies regarding financing

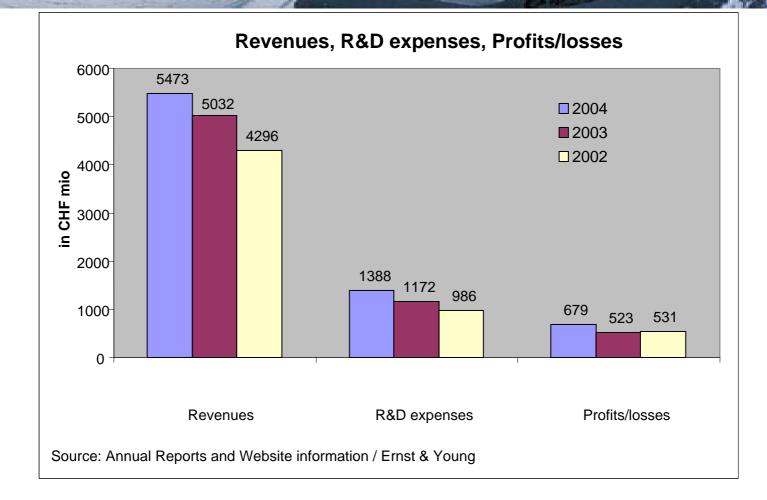


Swiss Biotech Association SBA (130 member companies)

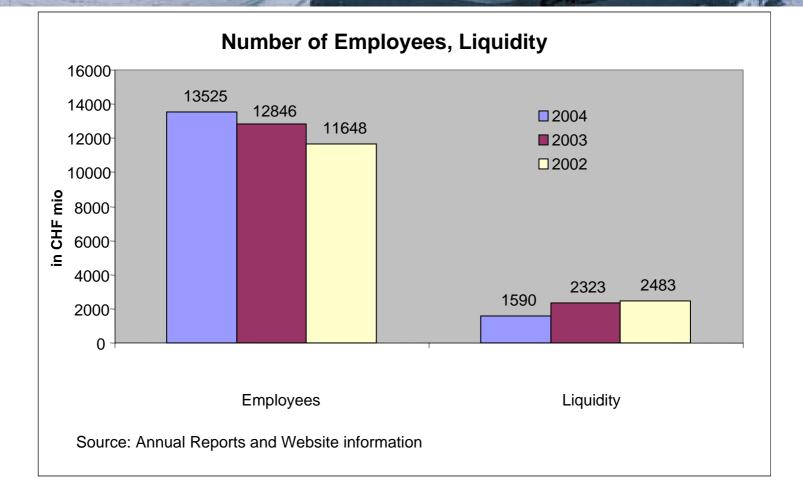
The SBA intends to secure the position to which biotechnology SMEs will be entitled now and in future. Focus is on:

- Support to create the conditions in biotechnology appropriate for SMEs.
- Continue the awareness programme to reduce the fear connected with modern biotechnology
- Intensify research-related communication between universities and the biotech industry
- Promotion of the opportunities attached to professional careers in science and biotechnology sector
- Integration of the Swiss Biotech Industry on the national level, on European level and on the global level.

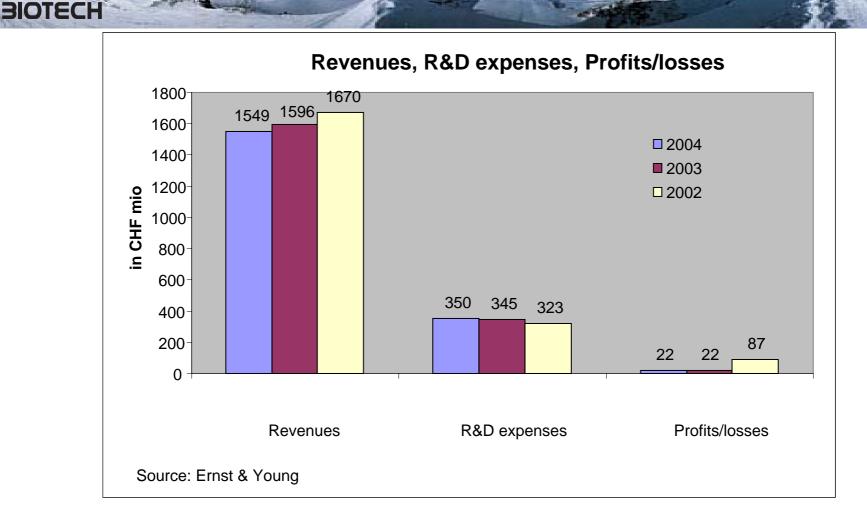
witzerland at a Glance – Tables / 1



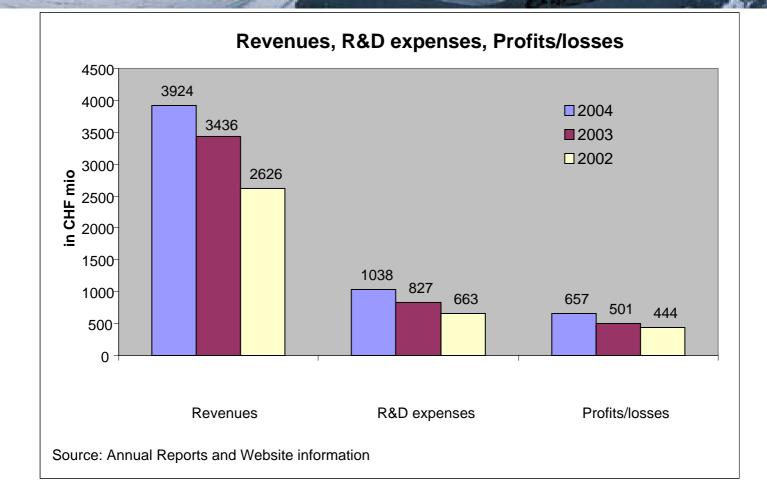
Switzerland at a Glance – Tables / 2



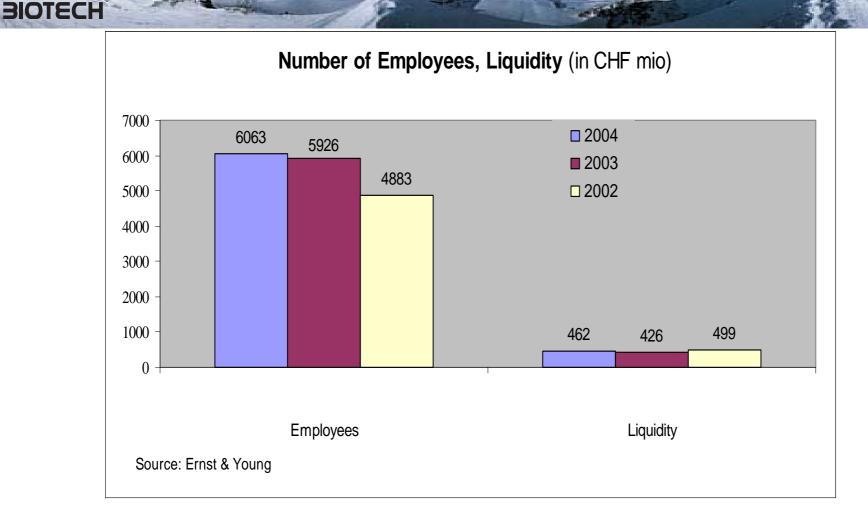
Swiss Private Companies in 2005 / 1



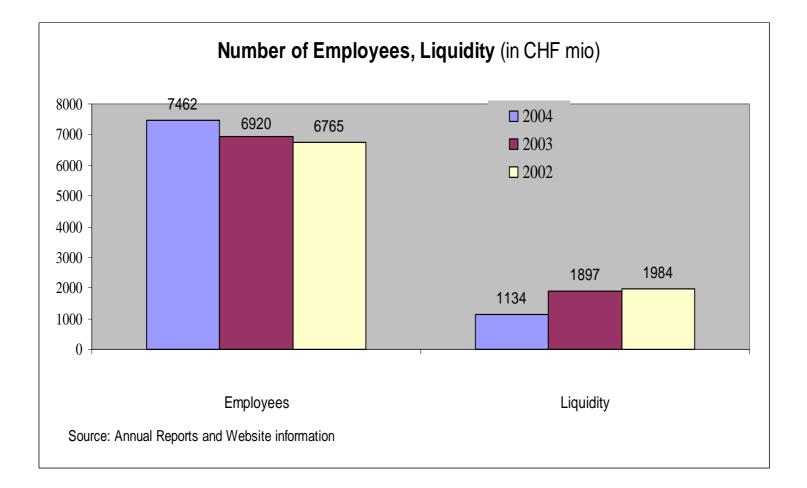
Swiss Public Companies in 2005/1



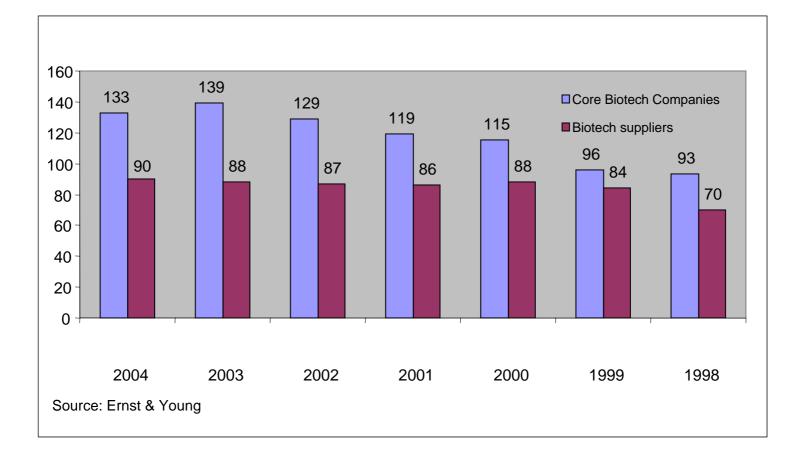
wiss Private Companies in 2005/2



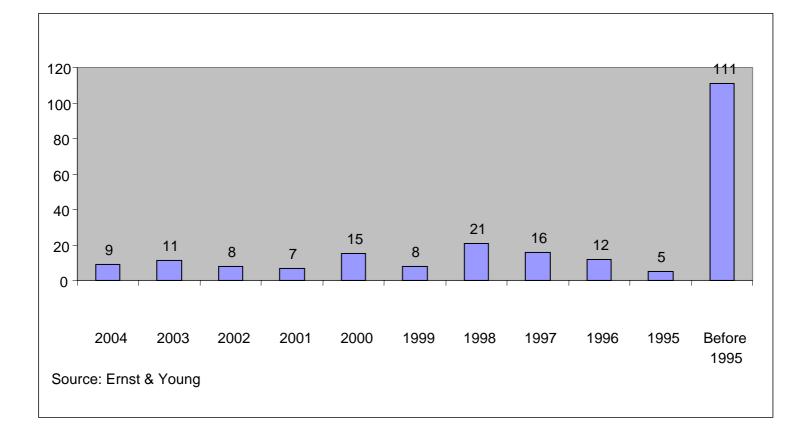
wiss Public Companies in 2005 / 2



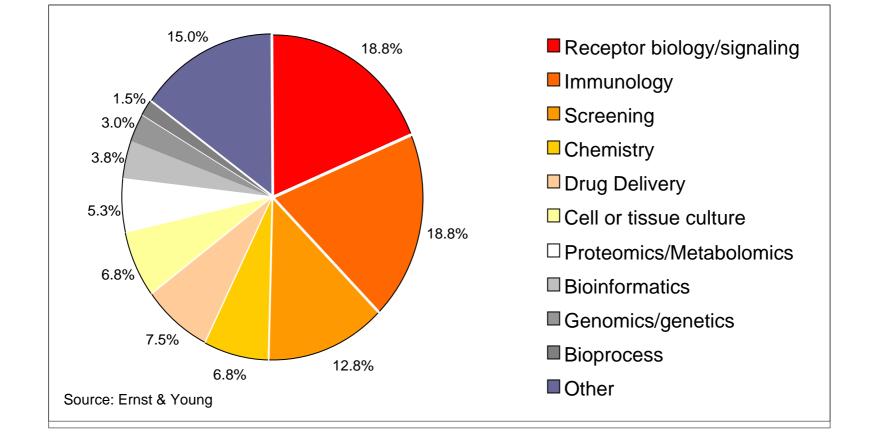
Number of Biotechs in Switzerland



Year of Company Foundation



Activity Fields of Core Biotechs





European Public Companies Products Pipeline

Country	Pre-clinical	Phase I	Phase II	Phase III	Total
UK	65	50	56	23	194
Switzerland	45	12	11	11	79
Sweden	14	8	10	0	32
France	16	8	6	1	31
Denmark	14	5	5	4	28

Source: Ernst & Young and BioCentury, 2003



Swiss Biotech – Summary

Companies – size distribution :

- 6 public companies (globally active), such as Serono, Berna Biotech and Actelion ;
- 18 medium-sized companies with 50-100 employees (many of these more or less ready for IPO)
- 199 smaller companies with less than 50 employees

Influx of venture capital : 2001: CHF 106 million 2002: CHF 148 million 2003: CHF 130 million 2004: CHF 194 million

 In 2002, 2003 and 2004 Switzerland ranked third in Europe regarding venture capital influx into the country.

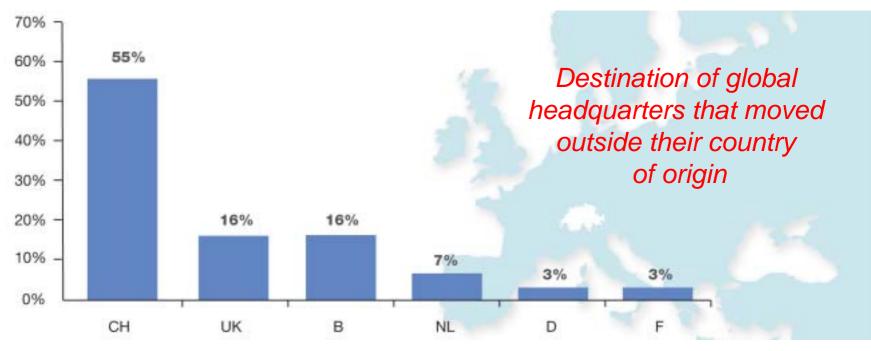






Compared to other European countries Switzerland is very attractive as global headquarters location

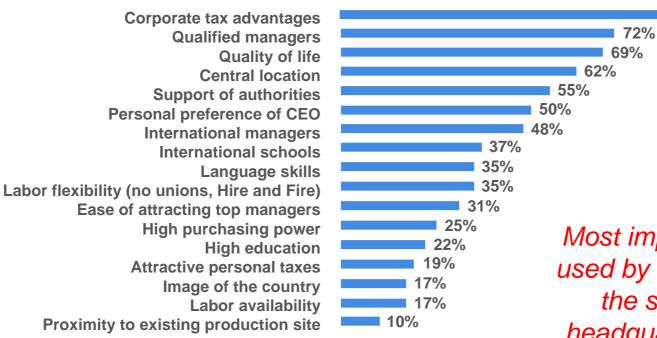
As % of all global headquarters that moved to these countries



Source : National Authorities, trade organizations and Arthur D. Little desk research - 2002



Companies use very specific criteria to determine the appropriate headquarters location



88%

Most important criteria used by companies for the selection of headquarters location



· Main Industry

- Chemical and pharmaceutical
- Banking
- Textile
- Tourism

Key Academic Institutions

- Università della Svizzera Italiana, Accademia di architettura,
- University of Applied sciences
- Institute for Research in Biomedicine
- Istituto Oncologico della Svizzera Italiana
- Istituto delle Molle per la ricerca sull'intelligenza artificiale
- Centro Svizzero di Calcolo Scientifico

Initiative: www.biopolo.ch



· Specialities

- Strong manufacturing cluster
- Strong clinical settings (public and private)

• "Flagships" (selection)

- Helsinn SA, IBSA SA
- KerrHawe SA, Medacta SA
- Jetpharma SA, Micromacinazione SA
- Start-ups:
 - Mondobiotech SA
 - Oncore therapeutics SA

Competitive Advantages

- Competitive position for research in human immunology
- Proximity to Italy
- Quality of life



Specialities



- International conferences BioSquare 2004, MipTec, ECB11..., The Life Sciences Network
- lectures / BioTech roundtables
- access to trinational Life Sciences Network in France, Germany and Switzerland
- BioValley Journal (www.biovalley.com)

"Flagships"(selection)

- Actelion Pharmaceutical Ltd.
- Basilea Pharmaceutica AG (IPO in March 2004)
- Hesperion
- RCC, Solvias, Speedel, etc.

Competitive Advantages

- BioValley (cross-border) initiative
- "big pharma" connections
- High concentration of science and engineering community



Main Industry

- Life Sciences: Novartis, Roche, Aventis, Syngenta, Lonza
- Chemistry: Ciba Specialty Chemicals, Clariant
- Logistics: Danzas, Panalpina, Rhenus

Key Academic Institutions

- Universities of Basel, Biocenter/Pharmacenter
- Department of clinical-biological sciences (DKBW)
- National Nanotechnology Center of Competences in Research (NCCR)
- European Center of Pharmaceutical Medicine (ECPM)
- As from 2006: ETH Institute for systemsbiology
- Friedrich Miescher Institute (FMI)
- Swiss Tropical Institute
- Universities of Mulhouse, Freiburg, Strasbourg

Initiative: www.biovalley.com





- (Mechanical) Engineering
- Services

SWISS

- Banking

Key Academic Institutions

- University of Zurich
- Federal Institute of Technology (ETHZ)
- Universities of Applied Sciences (Wädenswil, Winterthur)
- University Hospital
- Neuroscience Center
- Functional Genomics Center

Initiative: www.zurichmednet.org





Greater Zurich Area Zurich MedNet ^(1/2)

Greater Zurich Area / Zurich MedNet ^(2/2)

Specialities

SWISS

- LifeSciene Incubator Biotop
- LifeScience Park Zurich-Schlieren
- Conferences and Life Sciene seminars
- Focused Investement conferences

"Flagships"(selection)

- Cytos Biotechnology
- ESBATech
- Prionics
- SWX Swiss Exchange
- Nobel BioCare
- Novo Nordisk

Competitive Advantages

- global initiative
- virtual network
- financial community



Lake Geneva Area / BioAlps (1/2)

Main Industry

SWISS

- Microelectronics
- Watches
- Private Banking

Key Academic Institutions

- University of Geneva / Lausanne (HUG/CHUV)
- Swiss Federal Institute of Technology (EPFL)
- Swiss Institute for Cancer Research Ludwig Institute
- Swiss Institute for Bioinformatics
- ISREC, Lausanne

Initiative: www.bioalps.com





Lake Geneva Area / BioAlps ^(2/2)

Specialities

SWISS

- Geneva Proteomics (GeneProt)
- joint efforts of academic institutions in Life Sciences
- scientific parks / incubators

"Flagships" (selection)

- Serono International Ltd.
- Modex Therapeutics
- NovImmune
- Medtronic
- GeneBio, Covance

Competitive Advantages

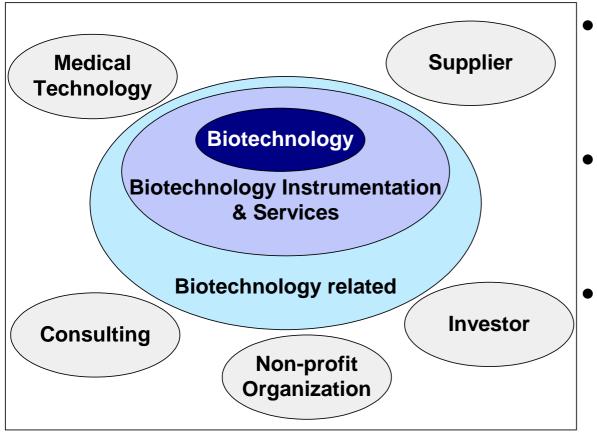
- multi-disciplinary research activities
- international environment
- quality of life





National Strengths through

competent information



- Database with over 1000 Swiss contacts
- Organizations active in the Life Sciences area
 - Main focus on Biotechnology

www.swisslifesciences.ch



