



...to Czech biotech



Association of Czech biotech companies



Czech Biotech

Great past, present, promising future

Overall description

Association CzechBio

CzechBio members



Great past

Czechoslovakia used to be extremely strong in traditional biotech

- Crop and animal breeding
- Fermentation industry
- Famous brewery tradion
- Production of wine, ethanol, baker's yeast, fodder yeast

Biotransformations:

Aminoacid production, cyclosporine A, ergot alcaloids, vitamins, food additives

Among pioneers of antibiotics production – penicillin (October 1949)

World famous school of continuous culture technology (at Institute of Microbiology of Czech Academy of Science)



Current shape of biotech in CZ

Developing cutting-edge biological research

Limited, still increasing cooperation between academia and private companies

Limited interest of the venture capital

So far Czech biotech companies didn't succeed in delivering original biotech product in field of human medicine to the market



Promissing future

- Strategic long-term research orientations for advanced biotechnology, biomedicine and molecular biology
- Incentives for academic-industrial cooperation (ERDF funds for OP R&D, 4.5 bil. Euro)
- National applied research support scheme (Technology Agency of the Czech Republic)
- Strong network of research institutes (54 public research institutes with 7.000 employees)
- Number of ongoing and starting projects (clusters, centers of excellence, competence centers, etc.)



Succesfull projects

2006: CBT – Centre of Biological Technologies

2006: FNUSA-ICRC – Faculty Hospital Saint Anna –

International Clinical Research

Centre – Mayo clinic

2007: CEITEC – Central European Institute of Technology

BIOCEV – Biotech and Biomed Research Centre

2008: Institute of Biotechnology – part of Academy of Science

2008: BIOMEDREG – Biomedicine for Regional

Development and Human Resouces



Biotech and Biomed Research Centre of CAS and Charles University (BIOCEV)

Joint project of 6 institutes CAS and 2 faculties of Charles University

Research areas

- > Functional Genomic
- Cell Biology and Virology
- Structural Biology and Protein Engineering
- Biomaterials and Tissue Culture Engineering
- Development of Diagnostics and Therapeutic Procedures

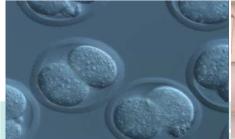


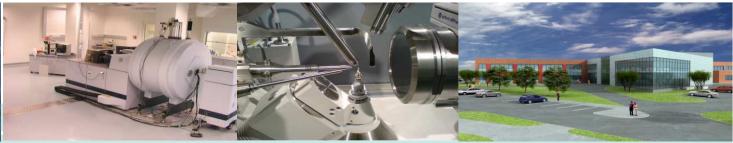
Biotech and Biomed Research Centre of CAS and Charles University (BIOCEV)

Project in numbers - total cost of EUR 125 mil., surface area of modern labs 25,500 m2, 600 positions to be created, summer 2014 planned start of the trial operation

Education and training - New study programes, international courses, training in advanced biotech methods, popularization and promotion of biotechnology and biomedicine

Focus on transfer of research results into practice







Biotech industry in CZ

All together around 45 companies located mostly in the region of Central Bohemia and South Moravia

Directly employed:

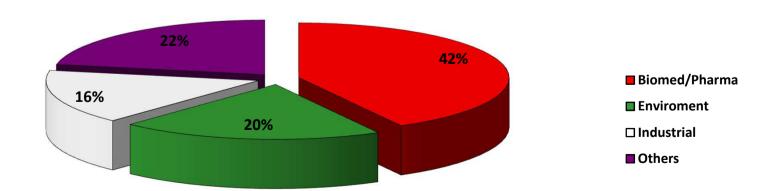
Total yearly turnover:

Average year growth:

2 000 – 2 400 employees

160 – 200 mil EUR

12 - 14 %





CzechBio z. s. p. o.

- A rapidly growing association of biotech companies, renowned research institutions and Universities operating in CZ
- Aiming at developing Czech biotech industry

Represents the famous traditional Czech biotech R&D

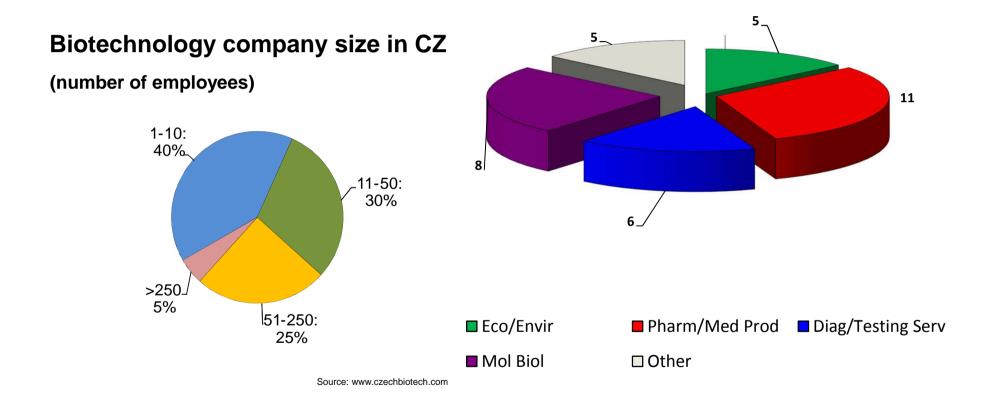
Founding members: 20 private biotech companies

Current members: 31 private biotech companies

4 R&D institutions + 1 university

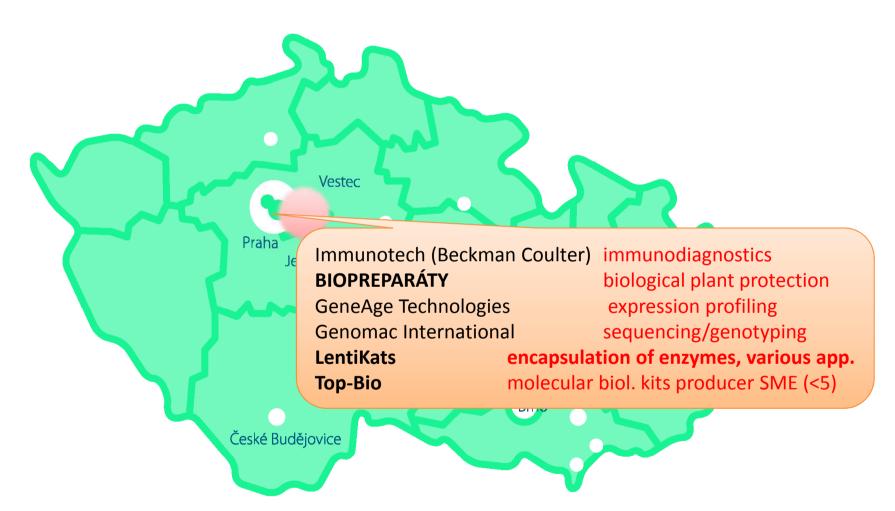


CzechBio – membership base

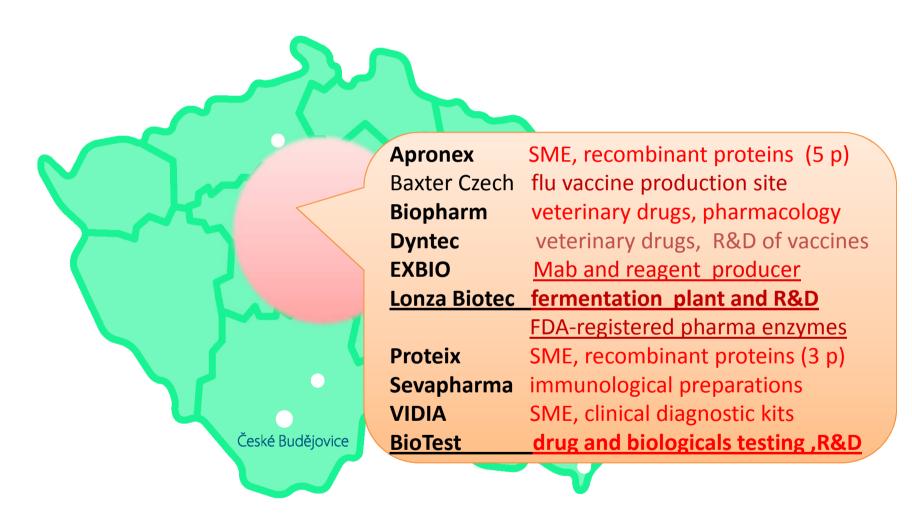




Selected biotech companies - Prague



Sel. biotech companies – Central Bohemia





Sel. biotech companies – South Moravia

Ostrava

BioVendor recombinant proteins, diagnostics

Bioveta veterinary vaccines R&D and production

BVT Technologies electrochemical sensors, biosensors

Enantis SME, recombinant dehalogenases

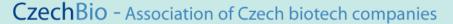
contract research in protein engineering

EPS SME, bioremediation, biogas

Moravian-Biotechnology SME, custom antibody services

TEST-LINE SME, human and veterinary diagnostics

České Budějovice



Sel. biotech companies – remaining regions



SME, oligonucleotides,

DNA genotyping services

Contipro Group world leader in hyaluronic acid

GMP recombinant defensins, wound healing R&D

Vestec

Protean SME, DNA diagnostics,

recombinant proteins

ENVISAN-GEM bioremediation, microbiology

GEN-TREND SME, diagnostics and proteins

Rrno

AgroBio agrochemicals and agrobiologicals

Biocel pulp industry – fodder yeast producer

IVAX-Teva Pharmaceuticals, generics

Ascoprot Biotech SME (5 p.) rec. proteins

OlChemIm SME, phytohormones, antibodies (5 p)



CzechBio offers:

- Guidance through the Czech biotech sector
- Partnership with academic institutions and biotech companies offering wide range of biotech services, products
- Comprehensive database of biotech companies to be approached
- Partnership in R&D activities
- Representation in number of expos & trade fairs
- Active participation on regular expert seminars and mingling sessions
- Use of our laboratory equipped with UFLC chromatografy and unique colons



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Thank you

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