



# Biotechnology in Estonia

Companies & Research



Toetab Euroopa Liit

## **Biotechnology in Estonia**

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# Foreword

Dear reader!

You are holding in your hand the second edition of "Biotechnology in Estonia" - a brochure with profiles of Estonian Life science companies and academic groups. Since the last edition, big changes have taken place in Estonian society as well as in the Life Sciences industry.

Estonia joined EU in May 1st, 2004. It is hard to overestimate the impact of such fact. Obviously, this is not the end of the road but should be considered as the gate to the variety of new possibilities and challenges. It is clear that being in EU stimulates the Estonian cooperation with all world-leading European biotech countries like United Kingdom, Sweden, Germany and Finland. The integration will continue as Estonia is predicted to adopt euro on January 1st 2007.

Estonia has finished the harmonization of European legislation. The combination of sound legal framework and comparatively low-cost healthcare system makes Estonia the target for expansion for several companies active in clinical trials and development. Another avenue for integration will probably be the launch of production facilities in Estonia as the favorable tax-system makes us competitive on the global scale. And these cost-effective solutions can be achieved within EU!

The Life Sciences is stated to be one of the key areas for Estonia since 2002. The developing granting system provides good leverage for private investments into innovation- and research-oriented fields. Additional boost will be given to the field by the usage European structural funds.

On behalf of myself and Estonian Biotechnology Association, I hope this booklet is useful guide for exploring the new possibilities for collaboration and partnership with Estonian companies and research institutions.

Tere tulemast!

Erki Mölder

Chairman  
Estonian Biotechnology Association

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- 34 - National Institute of Chemical Physics and Biophysics

### Support

- 35 - Centre for Biotechnology and Gene Technology of Tallinn University of Technology
- 36 - Estonian Biotechnology Association
- 37 - Estonian Genome Foundation
- 38 - Estonian Genome Project Foundation
- 39 - Tartu Biotechnology Park Ltd.

# Applied Phenomics LLC.

**E-mail:** info@appliedphenomics.ee

**Web:** www.appliedphenomics.com

**Phone:** +372 527 3465

**Fax:** +372 742 6287

**Address:** Lunini 24

Tartu 50406

Estonia

## Products and Services

- High quality RNA isolation for expression profiling
- Immunohistochemistry
- In situ hybridisation
- Molecular pathology services
- Pathology consultation services

## Keywords

- Clinical genomics
- Immunohistochemistry
- In situ hybridization
- Molecular pathology
- Tissue-based expression profiling

## PROFILE

A privately-held clinical genomics company, which specializes in gene expression profiling and target validation products and services. Our team is built of highly trained and motivated personnel with thorough expertise in molecular cell biology and in modern clinical pathology. This combination of skills allows us to carry out clinically relevant and scientifically sound services in the framework of collaboration with key players of European biotech landscape.

## AREAS OF COOPERATION

- Collaborations as a full pathology service provider for clinical trials
- Standardization and automatization of in situ hybridization analysis

applied   
phenomics



# Asper Biotech Ltd.

## PROFILE

Asper Biotech is a post-genomics company utilizing the arrayed primer extension (APEX) method for SNP based genotyping and mutation analysis. Asper's flexibility allows researchers both in academia and biotech/pharma to conduct cost efficient and high quality genotyping projects. Our long-term partnerships with reputable clients are a proof of our professional approach to the business.

E-mail: [info@asperbio.com](mailto:info@asperbio.com)

Web: [www.asperbio.com](http://www.asperbio.com)

Phone: +372 744 1556

Fax: +372 744 2343

Address: Oru 3

Tartu 51014

Estonia

## Areas of Research

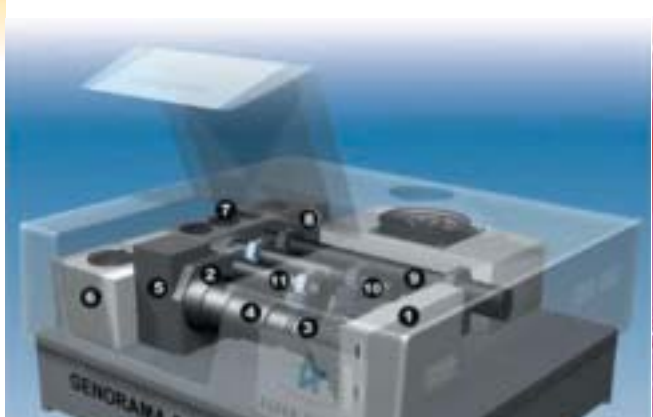
- Mutation detection studies
- Ophthalmic genetics
- P53 resequencing
- SNP based association studies

## AREAS OF COOPERATION

- Conducting association studies based on SNPs, developing genetic diagnostic assays based on mutation detection, and offering bioinformatics support for genotyping efforts
- Work with all organisms, with available genome sequence data (human, mouse, etc), but we also have experience in bovine genetics, and can work with other organisms as well

## Keywords

- ABCR gene, ABCA(4), LCA
- Custom SNP based association studies
- Diagnostics
- Ophthalmogenetics, eye disease genetic testing
- P53 gene, cancer, beta-thalassemia
- Pharmacogenomics
- Research
- SNP analysis and mutation detection
- Usher Syndrome



# Bestenbalt LLC.

## PROFILE

Bestenbalt LLC is a biotechnology company that specializes on production and analysis of recombinant and natural proteins, peptides, and other naturally occurring bioactive compounds. The research is focused on drug development for major diseases such as diabetes and Alzheimer's disease.

E-mail: [info@bestenbalt.com](mailto:info@bestenbalt.com)

Web: [www.bestenbalt.com](http://www.bestenbalt.com)

Phone: +372 502 5559

Fax: +372 601 3861

Address: Poska 4-27  
Tallinn 10147  
Estonia

## Products and Services

- Isolation of proteins and peptides from biological sources
- Mass spectrometric analysis of proteins
- Protein and peptide production
- Protein and peptide purification
- Protein identification

## Areas of Research

- New protein technologies
- New protein-based therapeutics
- New recombinant proteins

## AREAS OF COOPERATION

- Drug development
- High-throughput screening
- Novel compound libraries



# BimKemi Eesti AS

## PROFILE

BimKemi Eesti AS is specialized on pulp, paper and board industries. Our activities are conducted with product quality, environment protection and resource savings.

E-mail: [maris.liiders@bimkemi.ee](mailto:maris.liiders@bimkemi.ee)

Web: [www.bimkemi.ee](http://www.bimkemi.ee)

Phone: +372 665 4248

Fax: +372 665 4248

Address: Akadeemia tee 21G

Tallinn 12618

Estonia

## AREAS OF COOPERATION

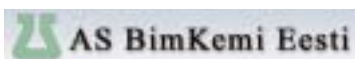
Biogas production from sulfate rich highly polluted wastewater

## Products and Services

- BIO-AROOM: microbiological preparation for removal of unpleasant odours and acceleration of composting
- BIOTREAT: environmentally friendly preparation for removal of hydrogen sulphide (H<sub>2</sub>S) from waste water

## Keywords

- Air pollution
- Biogas
- Solid wastes
- Wastewater



# BioData Ltd.

## PROFILE

BioData Ltd. has experience in the following areas: design and multiplexing of PCR primers for large-scale projects, design of oligos for different microarray experiments, study design and analysis of large-scale association studies, development of scientific software.

E-mail: [biodata@biodata.ee](mailto:biodata@biodata.ee)

Web: [www.biodata.ee](http://www.biodata.ee)

Phone: +372 744 1556

Fax: +372 744 2343

Address: Oru 3  
Tartu 51014  
Estonia

## Products and Services

- Design of microarrays as a service
- Installation of a in-house web-server with the ChipDesigner package
- On-line access to the ChipDesigner package
- Standalone programs for Windows OS

## Keywords

- Association studies
- Bioinformatics
- Genotyping
- Microarrays
- Oligos
- PCR
- Primers

## AREAS OF COOPERATION

- Development of software for companies offering oligos and/or microarray products
- Experimental testing of bioinformatics algorithms



# Celecure Ltd.

## PROFILE

Celecure is the leading Estonian biotech R&D company that develops new anticancer drugs and diagnostic methods. Our current business strategy is to perform discovery and pre-clinical studies of new generation anticancer drug candidates and research and development of breakthrough diagnostic methods.

E-mail: [info@celecure.com](mailto:info@celecure.com)

Web: [www.celecure.com](http://www.celecure.com)

Phone: +372 651 2678

Fax: +372 651 2671

Address: Sakala 17  
Tallinn 10141  
Estonia

## AREAS OF COOPERATION

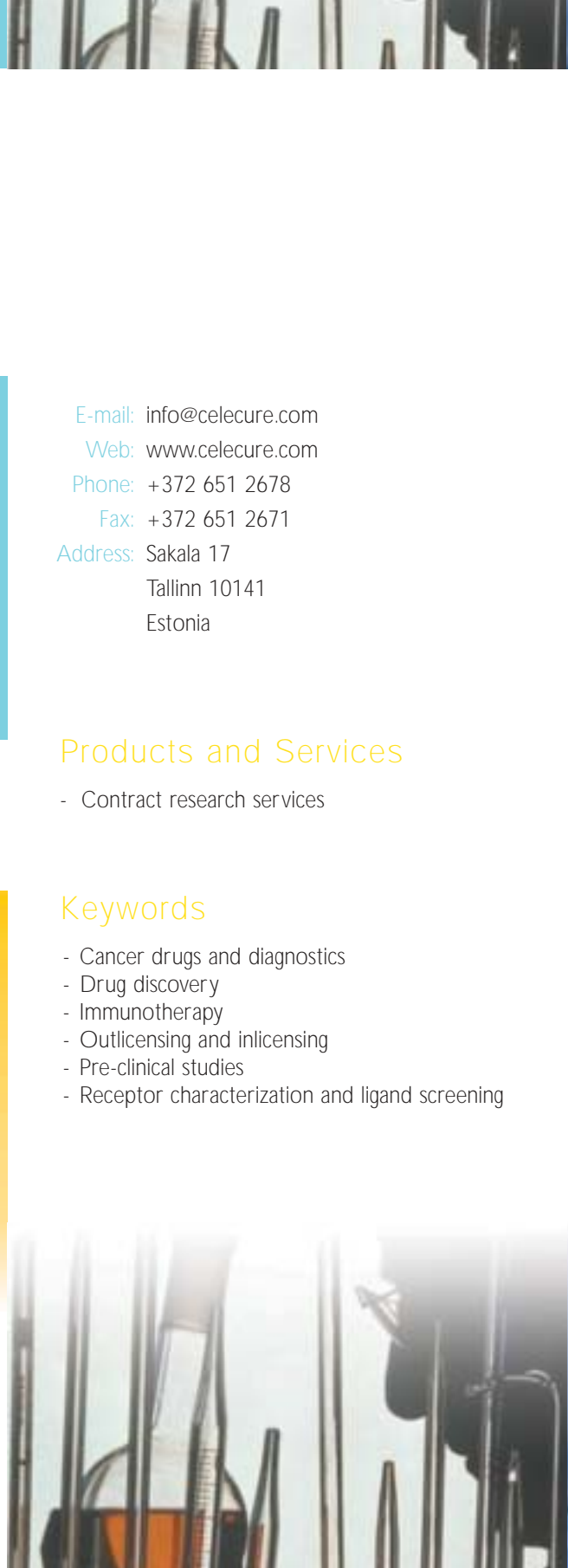
- Clinical studies
- Inlicense new anticancer drug candidates
- IPR strategies and management
- LIMS implementation
- Pre-clinical toxicology studies
- Provide contract research services in the receptor biochemistry
- Small scale GMP manufacturing
- Studies in animal models

## Products and Services

- Contract research services

## Keywords

- Cancer drugs and diagnostics
- Drug discovery
- Immunotherapy
- Outlicensing and inlicensing
- Pre-clinical studies
- Receptor characterization and ligand screening



# EGeen Inc.

## PROFILE

EGeen is an integrated pharmacogenetics company using the analysis of disease and drug response data in association with DNA and biomarker profiles. EGeen develops pharmacogenetics-based tests to identify new uses for existing drugs, to improve drug safety and to facilitate new drug development.

E-mail: [egeeninc@egeeninc.com](mailto:egeeninc@egeeninc.com)

Web: [www.egeeninc.com](http://www.egeeninc.com)

Phone: +372 730 9530

Fax: +372 730 9531

Address: Ülikooli 6A  
Tartu 51003  
Estonia

## Business focuses

- Currently: Immediate revenues from fee-for-service clinical trials
- Near Term: Drug development via cost-sharing/clinical co-development in return for royalties
- Medium and Longer Term: Proprietary drug development via in-licensing

## Keywords

- Clinical trials
- Drug development

## AREAS OF COOPERATION

- Customers amongst the pharmaceutical and biotechnology companies as well as clinical research organizations to perform clinical trials to facilitate the regulatory approval of drugs in development



EGeen



# lasGen Ltd.

## PROFILE

Spin-off company aims to develop the method for genome analysis to analyse differences between DNA molecules. The approach is to sort out the target DNA fragments by physical methods and multiply them by enzymatic methods.

E-mail: [ulo.puurand@mail.ee](mailto:ulo.puurand@mail.ee)

Phone: +372 740 6164

Address: Pikk 98-58  
Tartu 50606  
Estonia

# Immunotron Ltd.

## PROFILE

A spin-off company for immunotechnological developments. The aim of the company is to develop novel immunodiagnostic devices for human diseases.

E-mail: [raivou@ut.ee](mailto:raivou@ut.ee)

Phone: +372 510 5079

Fax: +372 737 4231

Address: Riia 185  
Tartu 51014  
Estonia



# Inbio Ltd.

**E-mail:** [inbio@inbiolabs.com](mailto:inbio@inbiolabs.com)

**Web:** [www.inbiolabs.com](http://www.inbiolabs.com)

**Phone:** +372 620 4350

**Fax:** +372 620 4358

**Address:** Akadeemia tee 15  
Tallinn 12618  
Estonia

## PROFILE

Inbio provides custom antibody services and peptide synthesis. Our team has ten years of experience in peptide synthesis and antibody production. We are a flexible and reliable partner with competitive pricing and experienced team. We also carry out research and development in the field of cell-membrane penetrating antibody technologies. In addition we distribute supplies and devices to research and clinical laboratories in Estonia.

## Products and Services

- Custom Monoclonal Antibody service
- Custom Polyclonal Antibody service
- Laboratory equipment and devices
- Peptide Synthesis

## Keywords

- Cell-penetrating antibodies
- Custom monoclonal antibodies
- Custom polyclonal antibodies
- Laboratory supplies and devices
- Peptide synthesis

## AREAS OF COOPERATION

- Custom monoclonal antibody services
- Custom polyclonal antibody services
- New products for distribution to research, clinical, and industrial laboratories in Estonia
- Peptide synthesis
- Potential distributors worldwide





# Kevelt Ltd.

## PROFILE

Kevelt Ltd is active in the biochemicals market (synthesis of pure eicosanoids for research purposes). Another activity is drug development and manufacturing. Four original medicinal products based on prostaglandins are currently in production. All products are sterile and produced at aseptic conditions according to GMP requirements.

E-mail: [kevelt@chemnet.ee](mailto:kevelt@chemnet.ee)

Phone: +372 620 4390

Fax: +372 670 3683

Address: Akadeemia tee 15-1  
Tallinn 12618  
Estonia

## Products and Services

- Drug development
- Synthesis of pure eicosanoids

## Keywords

- Contract manufacture
- Sterile pharmaceuticals



# LabAs Ltd.

## PROFILE

LabAs Ltd. was established in 1991 in Tartu, Estonia as a private company by specialists in the fields of immunology, immunochemistry, protein chemistry and purification, cell biology, genetics, human and veterinary medicine. We have about 20 years long experience in producing, purifying and labeling of mono- and polyclonal (mouse, goat, rabbit, chicken) antibodies.

E-mail: [info@labas.ee](mailto:info@labas.ee)

Web: [www.labas.ee](http://www.labas.ee)


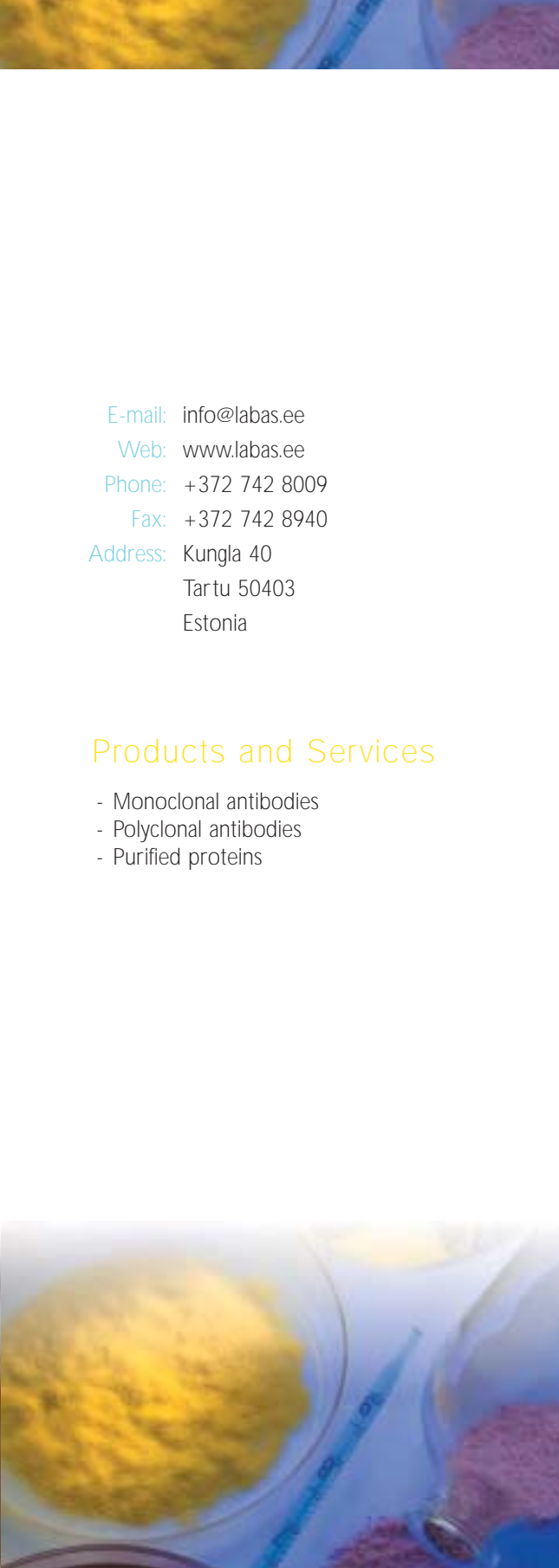
Phone: +372 742 8009

Fax: +372 742 8940

Address: Kungla 40  
Tartu 50403  
Estonia

## Products and Services

- Monoclonal antibodies
- Polyclonal antibodies
- Purified proteins



LabAs Ltd.



# Labema Eesti Ltd.

## PROFILE

Labema Eesti is a subsidiary of a Finnish company specializing in importing, marketing and delivering quality products for microbiology and clinical diagnostics.

E-mail: [labema@labema.ee](mailto:labema@labema.ee)

Web: [www.labema.ee](http://www.labema.ee)

Phone: +372 641 9496

Fax: +372 641 9497

Address: J. Vilmsi 28-1

Tallinn 10126

Estonia

## Products and Services

- Anaerobic workstations of the newest technology
- Diagnostic tests for straight or serological detection of microbes and of produced toxins
- Microbiology products from sampling to identification of microbes
- Quality control products
- Rapid drug tests
- Rapid tests of microbiology and clinical chemistry



# LabExpert Ltd.

## PROFILE

Sales and Service of Laboratory Equipment for chemical and microbiology laboratories. Lab Expert is sales and Service agent of FOSS Electric (Denmark), FOSS Tecator(Sweden) etc.

E-mail: [info@labexpert.ee](mailto:info@labexpert.ee)

Web: [www.labexpert.ee](http://www.labexpert.ee)

Phone: +372 605 5713

Fax: +372 740 0545

Address: Pirita tee 20

Tallinn 10127

Estonia

## Products and Services

- Sales and service of Laboratory Equipment

## AREAS OF COOPERATION

- With various West-European companies as Sales and Service representative.



# Mikrotaim Ltd.

## PROFILE

The company has a plant tissue culture laboratory capable of developing protocols for practical micropropagation, initiating aseptic plant tissue cultures and producing micropropagated plants. We are also investigating the influence of various factors affecting initiation of cultures and successful biomass production in vitro.

E-mail: [kaldmae@estpak.ee](mailto:kaldmae@estpak.ee)

Web: [www.eau.ee/~agt/mustikas/mikrotaim.html](http://www.eau.ee/~agt/mustikas/mikrotaim.html)

Phone: +372 513 2091

Address: Sillapää küla  
Räpina vald  
Põlvamaa 64507  
Estonia

## AREAS OF COOPERATION

- Research groups who need plant tissue culture in their work

## Products and Services

- Biomass production in vitro
- Producing micropropagated plants

## Keywords

- Micropropagation
- Plant tissue culture



# Naxo Ltd.

## PROFILE

Naxo produces and distributes reagents and instruments for biotechnology and molecular biology laboratories, gene targeting in embryonic stem cells, cell culture and cloning.

E-mail: [naxo@naxolab.com](mailto:naxo@naxolab.com)

Web: [www.naxolab.com](http://www.naxolab.com)

Phone: +372 742 8001

Fax: +372 747 7131

Address: Riia 185

Tartu 51014

Estonia

## Products and Services

- DNA and RNA purification
- Laboratory reagents
- Smart Mix buffers and media

## Keywords

- Buffers
- Cell culture
- Enzymes
- Gene targeting
- Genomics
- Proteomics

## AREAS OF COOPERATION

- Contract research
- Development of new products
- Sales of existing products
- Subcontracting for biotechnology companies





# ProSyntest AS

## PROFILE

ProSyntest is a provider of custom organic synthesis and contract research and development for the pharmaceutical and fine chemical industry, with a focus on customer needs in quality, confidentiality, in-time delivery and cost efficiency.

E-mail: [info@prosyntest.com](mailto:info@prosyntest.com)

Web: [www.prosyntest.com](http://www.prosyntest.com)

Phone: +372 620 4398

Fax: +372 654 7520

Address: Akadeemia tee 15  
Tallinn12618  
Estonia

## Products and Services

- Custom organic synthesis

## AREAS OF COOPERATION

- Various pharmaceutical and fine chemical companies

## Keywords

- Particle fractionation
- R&D and lab-scale synthesis
- Reactors
- Vacuum drying and packing



# Quattromed Ltd.

E-mail: [quattromed@quattromed.com](mailto:quattromed@quattromed.com)

Web: [www.quattromed.com](http://www.quattromed.com)

Phone: +372 737 7070

Fax: +372 737 7077

Address: Nooruse 9  
Tartu 50411  
Estonia

## PROFILE

Spin-off company of Tartu University, orientated in service-providing and product-selling fields. Parallel to sales activities, we carry out R&D work with the purpose of widening the range of services and products.

## Products and Services

- Medical molecular diagnostics
- Tools and services for Functional Proteomics

## Keywords

- Adenovirus
- Antibody
- Baculovirus
- E2
- Epitope
- HPV
- Protein expression
- Protein interaction kit
- Protein localization
- Protein purification
- Stable cell lines
- Tagging

## AREAS OF COOPERATION

- Distributors/dealers of our products
- Participation in technology development consortiums as technology/services provider
- Technology partners to bring our services to new level



# Quintiles Eesti Ltd.

## PROFILE

Baltic branch of the world leading Clinical Research Organisation. Co-ordination of the multinational and local clinical studies/projects.

E-mail: [katrin.otsalt@quintiles.com](mailto:katrin.otsalt@quintiles.com)

Web: [www.quintiles.com](http://www.quintiles.com)

Phone: +372 737 1150

Fax: +372 737 1171

Address: Soola 8

Tartu 51013

Estonia

## AREAS OF COOPERATION

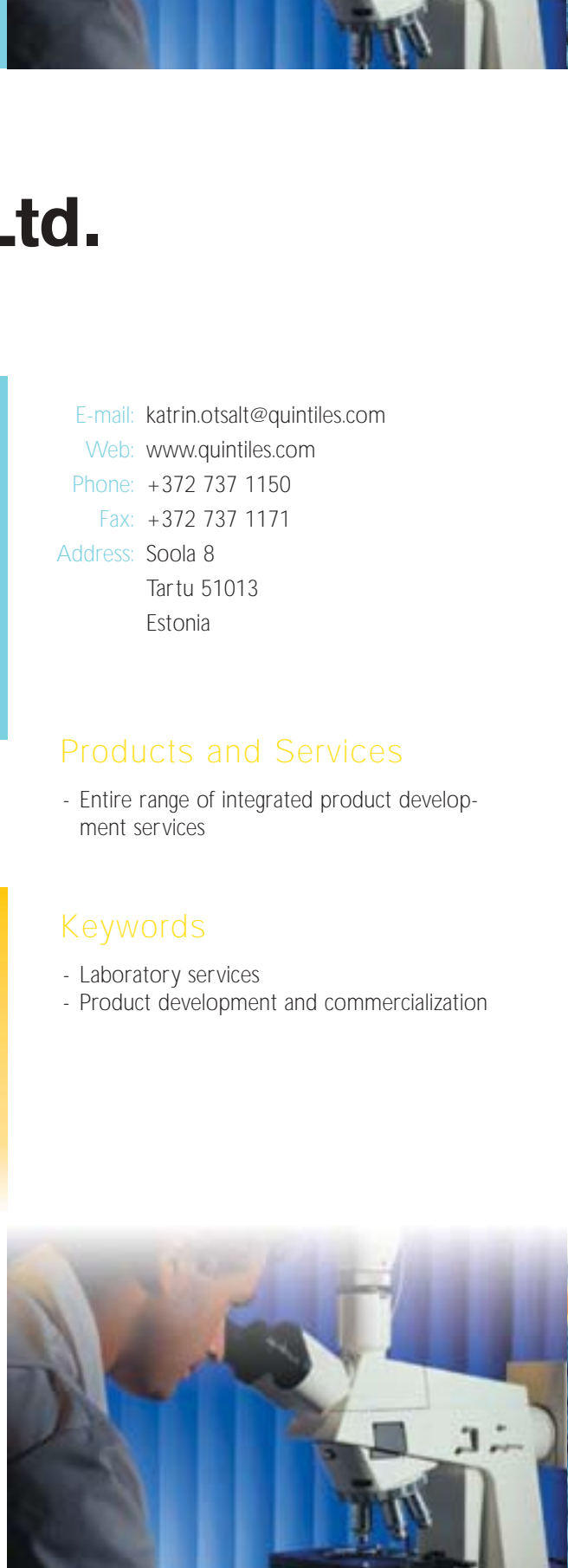
- New compound development
- Providing clinical research (phases I-IV) for the Estonian Biotechnology Firms

## Products and Services

- Entire range of integrated product development services

## Keywords

- Laboratory services
- Product development and commercialization



# Solis Biodyne

## PROFILE

Solis BioDyne is a company developing, producing and selling thermostable DNA polymerases. Our mission is to offer innovative, high quality gene technology products in the field of biotechnology, providing every scientist with solutions that enhance the results of scientific research. We also aim to provide our clients with a fully customized, reliable and high quality service.

E-mail: [solis@sbd.ee](mailto:solis@sbd.ee)

Web: [www.sbd.ee](http://www.sbd.ee)

Phone: +372 513 6370

Fax: +372 740 2079

Address: Pikk 14  
Tartu 51013  
Estonia

## Products and Services

- Thermostable DNA polymerases

## Keywords

- Enzymes
- MALDI-TOF
- PCR
- Primer extension
- SNP

## AREAS OF COOPERATION

- Business partners who work in biotechnological, biomedical, food technology or pharmaceutical field





# Tallinn Diagnostic Center AS

## PROFILE

Tallinn Diagnostic Center offers variety of high-end diagnostic services.

E-mail: [info@dk.ee](mailto:info@dk.ee)

Web: [www.dk.ee](http://www.dk.ee)

Phone: +372 666 5100

Fax: +372 666 5107

Address: Suur-Ameerika 18  
Tallinn 10122  
Estonia

## Products and Services

- Functional diagnostics
- Laboratory diagnostics
- Medical imaging

## AREAS OF COOPERATION

- Application of molecular diagnostics in routine clinical laboratory
- Participation in clinical evaluation of new drugs

## Keywords

- Laboratory diagnostics
- Magnetic resonance tomography
- Medical diagnostics
- Molecular diagnostics





# Torrosen Ltd.

## PROFILE

TorroSen OÜ is a spin-off company, commercialising the new technology of biosensors.

E-mail: [toonika@ut.ee](mailto:toonika@ut.ee)

Web: [www.hot.ee/torrosen](http://www.hot.ee/torrosen)

Phone: +372 526 2807

Fax: +372 737 5260

Address: J. Koorti 37  
Tartu 51011  
Estonia

## Products and Services

- Biosensor data management
- Biosensor systems
- Exchangeable bioselective elements

## Keywords

- Analytical systems
- Biosensors

## AREAS OF COOPERATION

Partners, active in the field of development, manufacturing and selling of biosensor based analytical devices or monitoring systems



**TorroSen**  
Innovative Biosensor Company



# Visgenyx Ltd.

## PROFILE

Visgenyx unites knowledge of molecular and cell biologists, neurobiologists and physiologists thereby ensuring the high scientific quality of the services provided. Visgenyx has dedicated its own R&D activities to fighting different forms of neurodegradative and other chronic human diseases using animal models for development of diagnostic and therapeutic methods.

E-mail: [visgenyx@visgenyx.com](mailto:visgenyx@visgenyx.com)

Web: [www.visgenyx.com](http://www.visgenyx.com)

Phone: +372 505 5431

Fax: +372 747 7131

Address: Riia 23  
Tartu 51010  
Estonia

## AREAS OF COOPERATION

Generation of animal models and contract research

## Products and Services

- Animal models
- Customized Animal Research
- Gene targeting service
- *In situ* Hybridization and Immunohistochemistry of whole-mount Embryos and Tissues
- Transgenic mice

## Keywords

- Gene targeting
- Transgenic animals



# Biomedical Engineering Centre of Tallinn University of Technology

**E-mail:** [centre@cb.ttu.ee](mailto:centre@cb.ttu.ee)

**Web:** [www.cb.ttu.ee](http://www.cb.ttu.ee)

**Phone:** +372 620 2200

**Fax:** +372 620 2201

**Address:** Ehitajate tee 5  
Tallinn 19086  
Estonia

## PROFILE

Biomedical Engineering Centre is a research centre for interdisciplinary studies engaged in under and post-graduate studies. The Centre is a structural unit within the Tallinn University of Technology (TUT) Faculty of Science, incorporating chairs inside its nucleus structure and other research and medical institutions as associated members, engaged in biomedical engineering research.

## Areas of Research:

- Environmental factors' effects on health and occupational health
- Estimation of the effectivity of rehabilitation procedures
- New laser methods in noninvasive medical diagnostics
- New methods in cardio-vascular diseases diagnoses
- The effects of electromagnetic radiation on health and human being

## Keywords

- Bioelectrical signal interpretation
- Human's health

## AREAS OF COOPERATION

Regional & International Health Care



# Centre of Excellence for Gene and Environmental Technologies

## PROFILE

The Centre of Excellence for Gene and Environmental Technologies is an institution for research and technological development carrying out cutting-edge fundamental research in molecular and cell biology and developing technological applications in the fields of gene and environmental technologies.

The research groups involved in the centre publish about 50 peer-reviewed scientific articles annually. The centre recruits a research staff of 63, the number of graduate students is over 100.

**E-mail:** [jsedman@ebc.ee](mailto:jsedman@ebc.ee)

**Web:** [www.tymri.ut.ee/TK/](http://www.tymri.ut.ee/TK/)

**Phone:** +372 737 5033

**Fax:** +372 742 0286

**Address:** Riia 23

Tartu 51010

Estonia

## Areas of Research

- Biochemistry
- Bioinformatics
- Biotechnology
- Cell biology
- Evolutionary biology
- Functional genomics
- Genetics
- Microbiology and virology
- Molecular biology
- Plant physiology

## AREAS OF COOPERATION

- High-level researchers and lectures
- Network of centres of excellence

## Keywords

- Library
- Research & teaching
- Transgenic facilities



# Centre of Excellence for Molecular and Clinical Medicine

E-mail: [cmcm@ut.ee](mailto:cmcm@ut.ee)

Web: [cmcm.ut.ee](http://cmcm.ut.ee)

Phone: +372 737 4051

Fax: +372 737 4052

Address: Ravila 19  
Tartu 51014  
Estonia

## Areas of Research

- Biochemistry
- Bioenergetics
- Child neurology
- Human genetics
- Immunology
- Microbiology
- Neurology
- Neuropharmacology
- Neurophysiology
- Psychiatry

## PROFILE

The general mission of the Centre is to perform internationally recognized research in medicine, particularly in order to reduce the burden of neurological diseases, mental illness and behavioural disorders (as separated entities or complex chronic diseases) through research on brain, mind and behaviour.

All these endeavours will be obtainable through motivating the best people from undergraduate-up to professor-level and enabling them the best self-improvement abroad and the best working conditions in our Centre.

## AREAS OF COOPERATION

All areas of research

# Estonian Agricultural University

## PROFILE

The mission of the Estonian Agricultural University is to guarantee sustainable use of natural resources and enhance rural development.

The Estonian Agricultural University is the centre of research and development in such fields as agriculture, forestry, animal science, veterinary science, rural life and economy, food science and environmentally friendly technologies.

**E-mail:** [info@eau.ee](mailto:info@eau.ee)

**Web:** [www.eau.ee](http://www.eau.ee)

**Phone:** +372 731 3003

**Address:** Kreutzwaldi 64  
Tartu 51014  
Estonia

## AREAS OF COOPERATION

In fields of agriculture, forestry, animal science, veterinary science, food science and environmentally friendly technologies with business, research institutions and public sector

## Areas of Research

- Disease resistance and yield capacity of plants
- Elaboration and experimental production of various biological preparations for agriculture
- Embryotechnology and bovine fertility
- Food technology and food quality
- Genetics, biotechnology and breeding in fish farming
- Methods of diagnosis, prevention and control of animal diseases and zoonoses
- Milk quality improvement
- Silviculture



# Estonian Biocentre

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## PROFILE

The Estonian Biocentre is an independent public research institute. It promotes research and technological development of gene and cell technologies in Estonia. In research and graduate student training it is closely collaborating with the Institute of Molecular and Cell Biology of the University of Tartu.

## Areas of Research

- Biotechnology
- Molecular medicine

## Keywords

- Environmental
- Genetechnology
- Molecular Evolution
- Oncogenese



**Estonian Biocentre**

Geno Biotehnika Riia 23B Tartu 51010, Estonia



# Institute of Gene Technology of Tallinn University of Technology

## PROFILE

The mission of Tallinn University of Technology (TUT) is to provide educational, research and innovation services in the fields of engineering and entrepreneurship, which are internationally competitive and significant for Estonia's sustained development.

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Address: Akadeemia tee 15  
Tallinn 19086  
Estonia

## Areas of Research

- Gene technology and molecular biology

## AREAS OF COOPERATION

Domestic and international scientific cooperation through strengthened contacts with business, business associations, other higher education and research institutions and public sector authorities

## Keywords

- Gene technology
- Genomics and proteomics
- Molecular biology
- Molecular diagnostics



# Institute of Molecular and Cell Biology of University of Tartu

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## PROFILE

The Institute of Molecular and Cell Biology (IMCB) was founded by University of Tartu a dozen years ago, on June 1st 1990. Today the institute has become the biggest and leading Estonian centre for research, teaching and technological development in the fields of molecular biology, gene technologies and molecular medicine.

## Areas of Research

- Gene Technology
- Molecular Biology
- Molecular Medicine

## Keywords

- Biochemistry
- Biotechnology
- Cell biology
- Evolutionary biology
- Genetics
- Microbiology and virology
- Molecular biology
- Plant physiology
- Didactics





# Institute of Technology of University of Tartu

## PROFILE

The institute functions as a support system for the entire Tartu University. The support units work in close co-operation with the university's scientists.

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Address: Vanemuise 21  
Tartu 51014  
Estonia

## Services

- Assessing and managing the intellectual property
- Establishing and developing industrial liaisons
- Providing innovation and entrepreneurship related training to the scientists
- Supporting spin-off firms in the incubation and early development phases

## Areas of research

- Molecular mechanisms of gene regulation and genetic diversity in changing environmental conditions.
- Study of the replication Molecular mechanisms of the RNA and DNA viruses and development of new methods for gene therapy and gene vaccination
- The Mechanisms of antibiotic action



# Jõgeva Plant Breeding Institute

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Jõgeva 48309  
Estonia

## PROFILE

The main commitment of the Jõgeva Plant Breeding Institute (JPBI) is development of new varieties of winter rye, winter and spring wheat, barley, oats, field pea, potatoes, vegetables, forage grasses and legumes. The aim of breeding programs is to obtain high-yielding varieties characterized by genotype x environment stability of traits. High level of resistance to plant diseases is essential from the aspect of environment protection.

## Areas of research

- Breeding and improvement of varieties of crops

## Keywords

- Genebank
- Plant breeding





# National Institute of Chemical Physics and Biophysics

## PROFILE

The National Institute of Chemical Physics and Biophysics is an autonomous public research institution. NICPB is divided into laboratories of bio-organic chemistry, bioenergetics, molecular genetics and chemical physics. The research activities range from studying fundamental aspects to applications. Strong emphasis is given to the deployment of modern physical methods in chemistry and biochemistry.

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Estonia

## Services

- Environmental monitoring
- General chemical analyses
- Molecular (genetic) identification of organisms
- Reference laboratory

## Keywords

- Cell metabolism and engineering
- Fundamental cancer biology
- Genetic plant engineering
- Immunology
- Macromolecular structural analyses
- Molecular diagnostics
- Molecular neurobiology
- Plant virology

## Areas of research

- Bioenergetics
- Bio-organic chemistry
- Chemical physics
- Molecular genetics



# Centre for Biotechnology and Gene Technology of Tallinn University of Technology

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Tallinn 19086  
Estonia

## Services

- Establishment of core facilities providing service and access to hard equipment both for projects functioning within the center as well as for academic structures of the Faculty of Science of TUT
- Investment promotion
- Networking with scientific institutions, business community and third sector organizations, especially in the nearby cities and countries
- Project promotion and monitoring
- Reinforcement of education and additional training in relevant areas
- Support to the development of common infrastructure for all companies and projects under the center
- Training and consulting in business development

## PROFILE

The main aim of the center is to offer high-quality infrastructure and additional know-how for the efficient and effective use of the intellectual potential of Tallinn and its nearby cities (incl. Tartu, Helsinki, Stockholm) for a solid basis of high-level research and development work in biotechnology and biomedicine.



# Estonian Biotechnology Association

## PROFIL

Estonian Biotechnology Association (EBIO) represents biotechnology companies and academic institutions in Estonia. Our goal is to help our members in finding better opportunities inside and outside the country through networking and partnering events to create better opportunities for developing the biotechnology sector in Estonia.

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# Estonian Genome Foundation

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Phone: +372 742 0132

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Estonia

## PROFILE

Estonian Genome Foundation, established in 1999, aims to promote the development of biotechnology in Estonia. To attain this goal the foundation supports research, organises R&D and educational activities (conferences, workshops, printed materials, etc.). The foundation also grants scholarships.

The Estonian Genome Foundation has the status of regional branch of the European Federation of Biotechnology, as well as the member status in ScanBalt.

## Keywords

- Artur Lind scholarships
- BioInformation Centre
- Gene Forum

## AREAS OF COOPERATION

Other networks of biotechnology and support units



# Estonian Genome Project Foundation

## PROFILE

The Estonian Genome Project Foundation is a non-profit organization founded by the Government of the Republic of Estonia for the implementation of the Estonian Genome Project.

The objective of the Estonian Genome Project is to establish a database of health, genealogical and genetic data of the people of Estonia that enables more exact and efficient diagnoses of illnesses, improvement of treatment and determination of risks of the development of an illness in the future.

In the beginning of 2005 there are over 10,000 gene donors' data in the Gene Bank database and nearly 300 data collectors recruited. Issuance of anonymous data of gene donors for scientific research has begun.

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## Areas of research

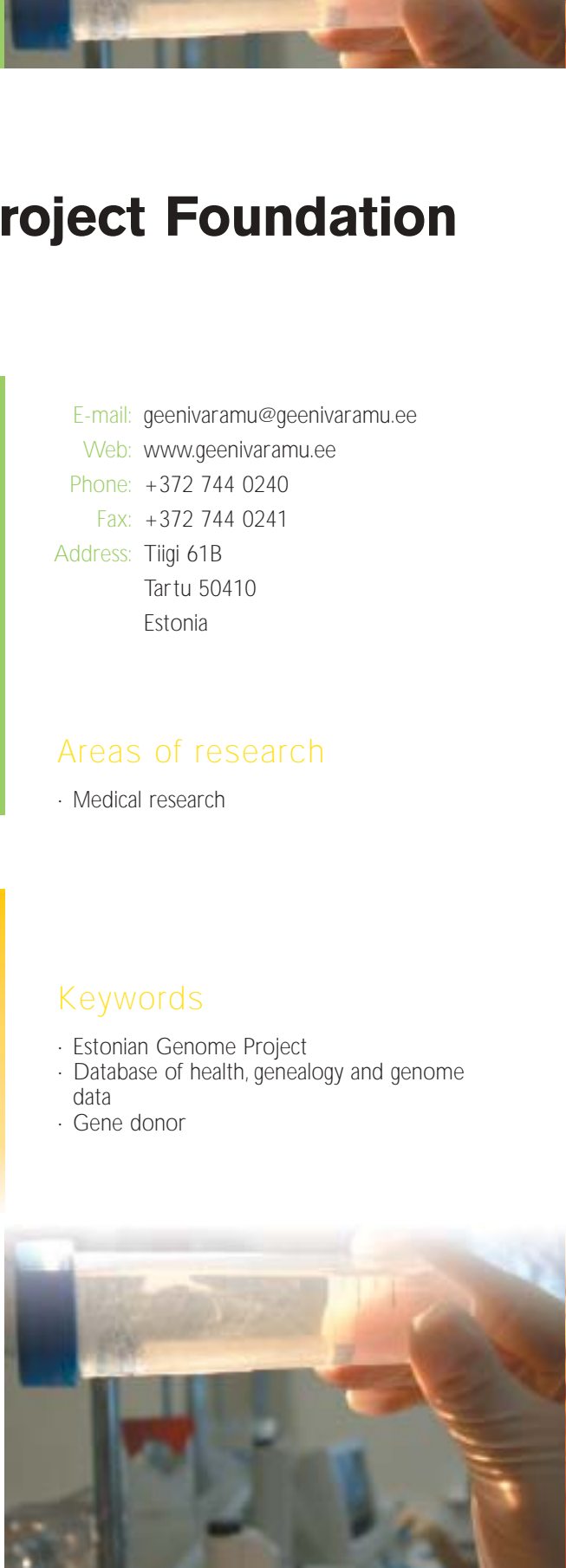
- Medical research

## AREAS OF COOPERATION

- Collecting the phenotype and genotype data, issuance for scientific research
- Participating in research project as a partner
- Potential use of the data

## Keywords

- Estonian Genome Project
- Database of health, genealogy and genome data
- Gene donor



# Tartu Biotechnology Park Ltd.

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Estonia

## Products and Services

- Company development
- Infrastructure services
- Services to foreign companies intending to operate in Estonia

## Keywords

- Biotechnology
- Consultations
- Development projects
- Infrastructure services

## PROFILE

The aim of the Tartu Biotechnology Park is to create a favourable and developing environment for the promotion of biotechnological entrepreneurship in Estonia. TBP offers infrastructure and related services for biotechnological development activities and entrepreneurship. To promote entrepreneurship TBP prepares and implements strategic development projects and diversifies various services offered to biotechnology companies.

The Tartu Biotechnology Park offers services to foreign biotechnology companies who wish to start operations in Estonia and to Estonian companies who intend to establish branches abroad, helping them in the incorporation of companies and finding personnel and cooperation partners.

## AREAS OF COOPERATION

- Development of international projects.
- Infrastructure development.