COMPETENCE ATLAS
BIOTECHNOLOGY

THE SPECTRUM OF BIOTECHNOLOGY
COMPANIES IN HESSEN
Ladies and Gentlemen,

Biotechnology now forms an integral and indispensable part of many industrial processes and even of our everyday life. In the field of medicine, it helps illnesses to be detected earlier and treated more effectively with the aid of new diagnostic methods and drugs. In the economy, it is the key to the transition from fossil to renewable raw materials. Synthetic materials, basic chemicals, energy – all these can be achieved with biotechnology.

Hessen is optimally positioned in this promising domain. Our universities, research institutions and start-ups are an ideal breeding ground for innovation. In the laboratories of Hessen’s chemical and pharmaceutical industry, ideas grow quickly and are soon ripe for practical application. Production is not a faraway prospect – nearly one third of Germany’s biotechnological production capacity is located in Hessen.

The Competence Atlas Biotechnology provides an overview of the Hessen’s biotechnology industry. It features over 150 companies and institutions. Innovation-driven industries such as the biotechnology industry benefit from cooperation between different partners. With the Competence Atlas Biotechnology, we aim to facilitate such cooperation across industrial sectors and geographical boundaries.

Tarek Al Wazir
Ministry of Economics, Energy, Transport and Housing,
State of Hessen
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Biotechnology – serving mankind and the environment

Man has been using microorganisms for thousands of years to make bread, wine and other commodities. Biotechnology is not a new accomplishment; with the development of modern molecular biology, it has, however, experienced rapid proliferation. Today, bacteria, yeasts and other living cells can be tailored so as to effect the large-scale production of active pharmaceutical ingredients, chemicals and a great deal more besides. Also isolated, microbially derived enzymes, too, are used in a number of industries as well as in everyday processes, such as laundering.

Biotechnology is already pervading the most diverse industrial sectors. It is particularly in the health, food and energy sector and is considered as a driver of innovation. For instance, biotechnologically produced amino acids and vitamins increase the nutritional value of fodder and foodstuffs. In regenerative medicine, transplants replacing defective cartilage, skin or other tissues undergo culture processes in the laboratory, where endogenous cells are leveraged. Biotechnology also plays a critical role in the changeover from fossil raw materials to renewable resources. Bioethanol, biogas and biohydrogen are generated from plant residues and other organic waste. In future, the greenhouse gas carbon dioxide is even to be transformed into base chemicals and other products with the aid of microorganisms. In short: The potential of biotechnology is multifarious and far from being fully tapped.
The biotechnology spectrum

Red and white biotechnology predominate in Hessen

The health sector continues to be the main driver of biotechnological innovation. Accordingly, most Hessen-based companies engaged in this industry operate in the medical field of red biotechnology. They focus upon new therapies and active ingredients, and upon diagnostic procedures and tissue engineering.

In addition to this, more and more companies in Hessen are concentrating on white biotechnology, also termed “industrial biotechnology”. The centrepiece thereby is constituted by designer cells or enzymes for the most diverse industries – from chemicals, through textiles, right through to paper. While classical chemical procedures frequently necessitate organic solvents, questionable chemicals and heat or other drastic conditions, biotechnological processes are conducted at moderate temperatures, at ambient pressure and in water. By contrast, green biotechnology, which is primarily concerned with the genetic optimisation of cultivated plants, plays a minor role in the biotech industry in Hessen.

Further biotechnology-related sectors in Hessen

The biotechnological spectrum does not confine itself to the colours red, white and green: Yellow biotechnology seeks out substances or symbiotic microorganisms in insects that can be used in medicine, agriculture or industrial processes. Grey environmental biotechnology, in its turn, develops procedures for water treatment, soil remediation, waste recycling, exhaust air decontamination and exhaust emission purification. Some companies engaged in this sector operate as service providers, suppliers or commissioned producers of biomolecules in various biotechnological domains. In this era of “big data”, bioinformatics companies, in particular, are assuming increasing importance. Whether it be genetic analysis in medicine or the decoding of plant genomes: Bioinformatics holds the key to the interpretation and secure management of data volumes.

Hessen: leading the field in biotechnology

Pioneers in biotechnology

Biotechnology has a long-standing tradition in Hessen. Emil von Behring, inventor of the diphtheria vaccine, received the Nobel Prize for Medicine in 1901, establishing Behringwerke AG in Marburg just a few years later - Hessen’s first biotechnology start-up, so to speak. Similarly, at the beginning of the 20th century, Dr Otto Röhm isolated enzymes for industrial leather bating for the very first time. Together with the merchant Otto Haas, he founded the company Röhm & Haas (now known as Rohm & Haas), which, in 1909, relocated to Darmstadt - close to the leather factories of the Rhine-Main region. The pioneering achievements of Emil von Behring and Otto Röhm pervade the biotechnology landscape of Hesse to this day. For instance, a significant network of red biotechnology companies has developed out of the Behringwerke facility.
Over the last few decades, a number of biotechnology companies have been established in Hessen. They benefit from their proximity to industry giants, from the life sciences and chemical sectors, which - likewise - are steeped in tradition. One such example is the oldest chemical and pharmaceutical company in the world, Merck: In 1668, the Schweinfurt-based pharmacist Friedrich Jacob Merck purchased a pharmacy in Darmstadt, as he was unable to gain a foothold in his home town. This was the precursor of the global corporate group that was ultimately established in 1827. Today’s Höchst Industrial Park also boasts a long tradition: In 1863, Carl Friedrich Wilhelm Meister, Eugen Lucius and Ludwig August Müller established the company Teerfarbenfabrik Meister, Lucius & Co. in Höchst, near Frankfurt.

In 1883, drug production commenced there and the company evolved into Hoechst AG, one of the largest chemical and pharmaceutical companies in the world. In 1994, work commenced on the realignment and restructuring of Hoechst AG; the erstwhile main facility was redeveloped, Höchst Industrial Park thus being established. The latter remains one of the largest and most dynamic facilities within the chemical and pharmaceutical industry in Europe. Then as now, the following holds true: Hessen offers scientists and companies with its pioneering spirit ideal conditions for their commercial success.

**Biotechnology in Hessen today**

Hessen is home to more than 200 biotechnology companies. With a workforce of over 16,000 employees, they generate a yearly turnover of approximately twelve billion euros. Close to 20 percent of the companies featured in this brochure employ more than 250 members of staff. Approximately a quarter of them are small companies with fewer than ten employees. As a biotechnology hub, Hessen is distinct from others in that it is not only characterised by innovative SMEs but also by established large and medium-sized pharmaceutical and chemical companies, which do not only conduct biotechnological research and development but which are also engaged in large-scale production.
Traditionally, biotechnology in Hessen is pervaded by the state’s colours - red and white: Almost 80 percent of the companies featured in the pages that follow focus upon the health sector. The companies with the highest revenues include sanofi-aventis (now Sanofi), Merck and AbbVie. Definitive for Hessen’s dynamism in the field of red biotechnology are, however, also innovative SMEs, such as Humatrix, Targos und Zedira. Similarly, in the sphere of white biotechnology, a number of companies have operations in Hessen; these include Evonik, BRAIN and AB Enzymes. Over a third of the companies featured in this Competence Atlas are engaged in the chemical sector, and over a quarter in the food industry. Green biotechnology, on the other hand, is only sporadically represented both in Hessen and across Germany. Companies like GenXPro, nadicom and LI-COR Biosciences have operations that extend to this sector.

Hessen’s biotechnology industry is distinct in that it spans the entire value creation chain – from research, through production, right through to distribution. Hessen accounts for close to one third of the biotechnological production capacities of the entire country. Over half of the companies in this Competence Atlas are engaged in production, and close to 60 percent in research and development. Almost 100 companies offer services, primarily in the areas of consultancy, contract research and laboratory equipment.
Facilities with a synergistic effect

Industrial Parks in Frankfurt, Hanau, Wiesbaden and Marburg

In innovation-driven industries such as biotechnology, sustainable networks and inter-disciplinary cooperative alliances determine commercial success. Partnerships between the scientific community and industry, and between start-ups and large corporations, are also essential for swiftly implementing ideas in a practical setting. Hessen’s industrial parks and incubator centres facilitate such cooperation by bringing those involved closer together in geographical terms. Moreover, they offer young businesses, in particular, outstanding infrastructure and, thus, conserve their resources.

Hessen has seven industrial parks: 16 companies are located at Behringwerke Marburg Industrial Park, employing more than 5,000 persons in total. More than 70 companies with a total of over 5,500 employees are housed in Kalle-Albert Industrial Park in Wiesbaden. Twelve companies are based at Wolfgang in Hanau Industrial Park, which spans an area of 820,000 square metres. Industrial parks are located in Frankfurt’s Fechenheim, Griesheim and Höchst districts. Höchst industrial park, housing more than 90 companies and close to 22,000 employees, is the largest chemical and pharmaceutical industry facility in Hessen.
Technology centres in Frankfurt, Gießen, Marburg and Pfungstadt

As a market-orientated technology hub, the Frankfurt Biotechnology Innovation Centre (FIZ), established in 2002, offers SMEs from the domain of life sciences tailored infrastructure and facilitates access to cooperative alliance partners, inter-disciplinary networks and markets. After the first two building phases achieved full occupancy, FIZ responded flexibly to the high demand, commissioning a further 4,000 square metres in June 2014. Today, 16 companies with a total of 700 employees work on laboratory and office premises spanning a total of 19,000 square metres. The Technology and Innovation Centre in Gießen (TIG), too, which is considered to be a springboard to success for start-ups, leases out laboratory and office facilities. Proximity to higher educational establishments in Middle Hessen, and being located in the immediate vicinity of more than 80 innovative companies make for an optimal foundation for cooperative alliances. TIG was derived from the Gießen incubator centre, opened in 1996. In Marburg, young biotechnology companies have been drawing support from the Technology Centre for Life Sciences (NTZ) since 2003. The NTZ provides modern GMP, laboratory and office premises on a site spanning a total of 2,000 square metres. Pfungstadt Biotech-Park, established by the town of Pfungstadt and R-Biopharm AG in 2013, is a relative newcomer. Pfungstadt Biotech-Park, with 4,000 square metres of office space and laboratories, offers premises for up to 10 companies and up to 100 employees.

Hessen: innovations on a solid foundation

Research and cooperation

Research is the bedrock of innovation. Along with the universities in Hessen, the numerous extra-mural research institutions located here enjoy an excellent reputation on the global stage. Four Max Planck Institutes (MPI) are setting benchmarks in fundamental biotechnological research: the MPI for Heart and Lung Research in Bad Nauheim, the MPI for Terrestrial Microbiology in Marburg, the MPI for Brain Research and the MPI for Biophysics, the latter two being located in Frankfurt. The Georg-Speyer-Haus in Frankfurt and the Paul Ehrlich Institute in Langen, which, in its capacity as a federal institution, is involved in authorisation procedures for gene therapies and vaccines, carry out applied research in red biotechnology.

The state of Hessen is aware of the significance of scientific grounding and promotes outstanding research within the parameters of the state campaign for the Development of Scientific and Economic Excellence (LOEWE). The state of Hessen supports thematically focused research alliances between universities, technical colleges and extra-mural research institutions in Hessen through the LOEWE centres. Thus, for instance, the LOEWE Centre for Synthetic Microbiology (Synmikro) investigates fundamental characteristics of cellular processes using synthetic and analytical research methodologies, and develops procedures for equipping cells and cell components with novel functions. The LOEWE Centre for Insect Biotechnology and Bioresources (ZIB) leverages the biodiversity of insects at a molecular level to develop new active ingredients for applications in medicine, in sustainable plant protection or in industrial biotechnology.
By contrast, LOEWE focal areas involve the pooling of selected key issues addressed in universities and extra-mural research institutions. The LOEWE focal area of Integrative Fungal Research (IFR), for instance, is addressed by biodiversity researchers working in conjunction with biochemists, biotechnologists and molecular geneticists: They aim to expand knowledge of fungal diversity in Hessen and in selected tropical regions, and to identify new substances that could be used in industry, medicine and food production. In the LOEWE focal area of medical RNomics, scientists consider the question as to how the expression of regulating ribonucleic acids changes during periods of human illness. The objective is to apply the new findings to diagnostics and to translate them into new therapeutic concepts.

Furthermore, the “Funding Line 3: LOEWE-SME Collaborative Project” supports small and medium-sized companies that aim to implement technology-orientated projects in conjunction with partners from the world of science within a composite framework.

**Company start-up made easy**

The Germany-wide start-up initiative Science4Life, accorded financial support by the state of Hessen and the pharmaceutical Group Sanofi, has established itself as one of the most successful public-private partnerships for the promotion of company start-ups. Those who participate in the business plan competition receive expert consultancy services free of charge and can win cash prizes as well as the opportunity to participate in start-up workshops. Since its launch in 1998, Science4Life has resulted in approximately 600 company start-ups.

Those wishing to transfer scientific findings to a practical setting can avail of consultancy services both from universities and extra-mural technology transfer units in Hessen. The transfer units identify trends and cooperative alliance partners. They also support targeted, commercial positioning in the marketplace by providing information on patenting, licensing and spin-offs.
Business development initiatives in Hessen

The Enterprise Europe Network

The Enterprise Europe Network (EEN) helps SMEs tap the European market. With close to 600 member organisations from more than 50 European countries - including chambers of commerce and industry, technology centres, universities and business development bodies - EEN is the largest European network of its kind. In conjunction with on-site partners, EEN provides support to companies specific to expansion, technology transfer, financing, legal consultancy services and information services in the global context.

The Hessen-Biotech technology axis

Hessen-Biotech is the core biotechnology-specific information, communication and cooperation platform of the Hessian Ministry of Economics. The catalyst for this project is the business development organisation Hessen Trade & Invest GmbH. Hessen-Biotech integrates capabilities, promotes the capacity for innovation and the competitiveness among Hessian companies and, thus, strengthens Hessen’s position as a centre of excellence in biotechnology.
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The Art of Enzymes: AB Enzymes is one of the world’s oldest and best known Enzyme companies. We offer enzymes for industrial applications worldwide. The products range from food enzymes for baking and beverages to enzymes for animal feed, textile technology and the detergents industry. AB Enzymes’ focus in the biofuel market is in the use of lignocellulosic biomass to produce transport fuels.

The Company is represented in more than 50 countries worldwide with headquarters in Darmstadt, Germany. In addition, there are also offices located in the US, Singapore, China and Brazil to serve you locally.

AbbVie GmbH & Co. KG

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AbbVie is a global research-based biopharmaceutical company formed in 2013 following separation from Abbott Laboratories. The company’s mission is to use its expertise, dedicated people and a unique approach to innovation to develop and market advanced therapies that address some of the world’s most complex and serious diseases. AbbVie employs approximately 25,000 people worldwide and markets medicines in more than 170 countries.

For further information on the company and its people, portfolio and commitments, please visit www.abbvie.com. Follow @abbvie on Twitter or view careers on our Facebook or LinkedIn page.

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Main field of biotechnology

Red Biotech
Green Biotech
White Biotech
Nonspecific services
Bioinformatics

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Main field of biotechnology

Red Biotech
Green Biotech
White Biotech
Nonspecific services
Bioinformatics
**ABT Armbruster Biotechnologie GmbH**

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Founded in 2001, Armbruster Biotechnology GmbH is a research company engaged mainly in the areas of bone metabolism and bone metastases. Together with partners from other research institutes and clinics, ABT studies bone matrix proteins used in tumor therapy, particularly against bone metastases.

Armbruster Biotechnology provides other research companies with cell lines, antibodies, recombinant antigens and immunoassays developed by the company as part of its own research activities.

**Business activities** | **Applications**
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Research & Development | Agriculture  
Production | Chemistry  
Marketing | Diagnostics  
Sales | Engineering  
Services | Environmental Protection  
Analytics | Food/Feed  
IT, Software | Pharmaceuticals

**Main field of biotechnology**

Red Biotech  
Green Biotech  
White Biotech  
Nonspecific services  
Bioinformatics

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Since 2015 Accovion, a leading full-service contract research organization (CRO), is the European headquarter of Clinipace Worldwide, a global digital CRO. Accovion provides the entire range of clinical research services to the pharmaceutical, biotechnology and medical device industries and is currently active in more than 20 countries.

For more than 10 years, Accovion has been successfully conducting national and international clinical trials across all phases of clinical development. Accovion’s local expertise in offices across Europe, combined with broad experience, enables it to deliver the support that clients need, where and when needed. Accovion is known for its premium quality front-end and back-end services in early to late phase development, as well as Post Market Surveillance (PMS). Quality, reliability and flexibility are the values that clients can expect from Accovion.

**Business activities** | **Applications**
--- | ---
Research & Development | Agriculture  
Production | Chemistry  
Marketing | Diagnostics  
Sales | Engineering  
Services | Environmental Protection  
Analytics | Food/Feed  
IT, Software | Pharmaceuticals

**Main field of biotechnology**

Red Biotech  
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Bioinformatics
Aeterna Zentaris GmbH, located in Frankfurt am Main, is a wholly owned subsidiary of the Canadian company Aeterna Zentaris Inc., Quebec City. Aeterna Zentaris is a specialty biopharmaceutical company engaged in developing novel treatments in oncology and endocrinology. Its pipeline encompasses compounds at various stages of development.

The company has submitted a New Drug Application (NDA) to the US FDA for its ghrelin agonist, macimorelin acetate in November 2013. A pivotal phase 3 study with our targeted drug conjugate zoptarelin doxorubicin in endometrial cancer is ongoing. Aeterna Zentaris is in a transition process from an R&D driven company into a commercially operating company.

Alcedis GmbH stands for long years of CRO experience and profound expertise in the conduct of clinical trials. Our innovative software systems constitute a centrepiece of the Alcedis trademark.

Our module-based service concept adjusts itself flexibly to your project structure. Likewise, our data entry and software systems are individually adapted.

With our network of qualified partners, we conduct national or international phase I to IV multi-center studies, non-interventional studies and registers for medicinal products and medical devices.

In short: We are your competent partner for the conduct of your clinical studies – active worldwide and yet "under one roof"!
AlphaScience GmbH

AlphaScience GmbH is a Germany based, integrated life science company established in 2004 as a co-manufacturer, distributor and supplier of quality Diagnostic Reagents, Kits and Service. The company markets its products and technologies to hospitals, reference laboratories, research centers, diagnostics manufacturers, and biotech companies in Germany through direct sales force and in Europe through independent distributors.

Our Key competence is in detection of Infectious Diseases, Autoimmune, Allergy and Research Reagents by various methods like ELISA, IFT/DFT, POC and PCR from well-known companies with best reputation.

**Business activities**
- Research
- Development
- Production
- Marketing
- Sales
- Services
  - Analytics
  - IT, Software
  - Lab equipment
  - CRO
  - Trainings
  - Consulting
- Further

**Applications**
- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
- Pharmaceuticals

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Analytica Biotechnologies AG

Analytica Biotechnologies AG is a world leader in developing and manufacturing diagnostic systems. The products provide healthcare professionals with accurate and affordable diagnostic solutions in physicians's offices, hospitals and clinical laboratories. Analytica is focused on four business lines: clinical chemistry, coagulation, hematology and urinalysis. Within those lines the company offers a broad and leading range of urine test strips, clinical chemistry parameters, hematology and coagulation reagents.

The product lines are complemented by various cutting-edge analyzers for different throughputs. The systems are distributed in nearly 100 countries all over the world through a strong distributor network. The company's success is based on its ambitious customer support conception including thorough training programs for field service engineers, application specialists and sales staff.

**Business activities**
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**Applications**
- Agriculture
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- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
- Pharmaceuticals

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anamed Elektrophorese GmbH’s historical background is the experience of more than 10 years of production and distributionhip for 10 cm x 10 cm vertical pre-cast gels along with other consumables for the electrophoresis lab such as buffers, stainers, standards, gel drying solution and of course electrophoresis instruments as well.

AXIOM Gesellschaft für Diagnostica & Biochemica mbH is based in Bürstadt with a branch in Worms. Our brand name AXIOM has been introduced in more than 80 countries incl. all of Europe and is one of the leading manufacturer and a worldwide direct supplier and exporter of Clinical Chemistry, Microwell ELISA Systems and products incl. Infectious Diseases HIV, HCV, HBsAg, HEV and other parameters, Coagulation and Haematology with Reagents, Rapid Tests, Serology, Urine Analysis, Lab Instruments and Microscopes for Laboratory, Hospitals as well as Universities and Schools. AXIOM has experience of in-vitro and laboratory diagnostics including automated system solutions. Our customers include top distribution companies, Hospitals, Industrial, Educational, Governmental organizations and also end-users. Our company's success is based on its ambitious customer support concept providing technical support, innovative product information and logistics.
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BAG Health Care GmbH is a family-run health care company which develops, manufactures and markets in-vitro diagnostics and hygiene monitoring products. Its in-vitro diagnostics product line focuses on transplant diagnostics and blood group typing. The hygiene monitoring business area comprises manufacturing and distribution of sterilization, disinfection and cleaning efficiency tests. As a contract manufacturer for the pharmaceutical industry, BAG specializes in parenteral rugs. We have the capacity for pilot projects, clinical test substances and commercial products and we support customers in Phase I-III clinical trials through upscaling and production, ranging from validation batches to commercial products. Clean room clusters allow flexible synthesis of substances in compliance with GMP guidelines.

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BCNP offers specialized consulting services in biotech, chemistry, nanotech and pharma (BCNP). BCNP services areas are:

1. Technology Strategy
2. Market Intelligence
3. Marketing Management
4. Capital Sourcing

Clients benefit from BCNP’s comprehensive scientific expertise in chemistry, biochemistry, biology and biotechnology. The team is completed by a financial expert and an international marketing specialist. BCNP consultants understand the technical/scientific and economical needs of their clients. The spectrum of clients ranges from universities and NGOs to SMEs and big publicly traded companies. BCNP is very well connected to experts and decision makers in various industries. Since 2010, BCNP has been authorized by the Federal Ministry of Economics and Technology (BMWi) in the program BMWi-Innovationsgutscheine (go-Inno).

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Fax +49 561 8044-665
info@biaffin.de
www.biaffin.com

Biaffin GmbH & Co KG is a bioanalytical service provider specialized in surface plasmon resonance (SPR) for biomolecular interaction analysis to kinetically characterize any pair of interacting molecules in real-time in a label-free state. Biaffin has more than 12 years of experience in developing customized projects for drug development programs of pharma, biotech, generic drug companies and scientific institutions worldwide. Our highly specialized team uses state of the art SPR instruments (Biacore) in an ISO 9001:2008 certified lab.

Biaffin’s SPR services comprise hit validation, secondary screening and lead optimization of small molecule drugs as well as kinetic characterization, mechanism of action and thermodynamics, stability, quality control and batch to batch comparison of antibodies, biologics and biosimilars. Biochemical and enzymatic assays based on microfluidic mobility shift technology, bioluminescence and spectrophotometry complement our service portfolio. Biaffin’s online shop Protein kinase.biz offers high-quality products for kinase research and signal transduction (kinases, phosphatases, cytokines, receptors, substrates, inhibitors, antibodies, kinase assays).

Biebertaler Blutegelzucht GmbH

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Phone +49 6409 661 40-0
Fax +49 6409 661 40-75
blutegel@blutegel.de
www.blutegel.de; www.bbez.de

Biebertaler Blutegelzucht was established in Biebertal in 1991 and is now the leading producer of leeches for medical applications in the EU. A focal area of its business is breeding the Hirudo verbana / medicinalis / orientalis species and placing them on the market for medical use.

The company also trains physicians and other medical personnel in leech therapy, and publishes scientific information on the biology of leeches, therapeutic approaches and active ingredients. Finally, its portfolio includes products for the care of leeches for medical use. In order to improve the knowledge about leeches and leech therapy we cooperate with several universities and clinics.

Business activities

Research
Development
Production
Marketing
Sales
Services
Analytics
IT, Software
Lab equipment
CRO
Trainings
Consulting
Further

Applications
Agriculture
Chemistry
Diagnostics
Engineering
Environmental Protection
Food/Feed
Pharmaceuticals

Main field of biotechnology
Red Biotech
Green Biotech
White Biotech
Nonspecific services
Bioinformatics

Business activities

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Main field of biotechnology
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Nonspecific services
Bioinformatics
bio.logis GmbH

CEOs: Prof. Dr. med. Daniela Steinberger
Enrico Just

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D-60438 Frankfurt am Main
Phone +49 69 5308 437-0
Fax +49 69 5308 437-11
info@gim.biologisgroup.com
www.bio.logis.de

bio.logis Genetic Information Management develops IT-solutions for the management of genetic data and related scientific content (GIM) based on its comprehensive expertise in Human Genetics. GIM enables interested persons and physicians to use genetic data for personal decision making and clinical purposes. bio.logis focuses on genetic information that is useful for improving health, e.g. by adjusting lifestyle or medications. We do not provide irrelevant genetic information.

The bio.logis team consists of expert physicians, scientists, technicians, IT experts and economists. Prof. Dr. med. Daniela Steinberger is medical director of bio.logis. She is a specialist in Human Genetics and has 20 years of experience in human genetic diagnosis.

bioactiva diagnostica GmbH

CEO: Adnan Dawoud

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Phone +49 6172 17102-0
Fax +49 6172 17102-29
bioactiva@bioactiva.de
www.bioactiva.de

bioactiva diagnostica GmbH is specialized in producing and distributing in-vitro diagnostics, lab-ware and medical equipment. We offer high-quality products at moderate prices.

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biomedis Laborservice GmbH

CEO: Klaus Fey Thomas Pillich
Kerkrader Strasse 2
D-35394 Gießen
Phone +49 6419 46001-0
Fax +49 6419 46001-50
info@biomedis.de
www.biomedis.de

biomedis Laborservice GmbH provides services for biotechnological, biological and medical laboratories throughout Germany. The offering includes the inspection of microbiological safety cabinets and the maintenance and repair of laboratory equipment. Biomedis is accredited under DIN EN ISO/ITEC 17025 to test the instruments used to measure pressure and temperature on autoclaves, sterilizers, incubators and calibrate pipettes, burettes and dispensers. In addition to its technical services, biomedis offers a range of laboratory equipment and, if requested, training programs for individual customers or applications.

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BioSciTec GmbH

CEO: Dr. Robert Jaeger
Eschborner Landstrasse 55
D-60489 Frankfurt am Main
Phone +49 69 4208 2884
Fax +49 69 4208 2886
info@bioscitec.de
www.bioscitec.de

BioSciTec GmbH develops, manufactures and markets imaging solutions for bio-sciences, including systems for (semi-)automated analysing of test strips, rapid tests and colony counting.

After starting off with electrophoresis gel documentation, we entered into laboratory diagnostics in 2001 with the development of the “BLOTrix” software for reading infectious disease test strips. Only a few years later, optical reading devices became as important to us as the production of software, applying an ISO 13485 certified quality management system.

Today, automated diagnostic strip reading is hardly imaginable without BioSciTec GmbH. Cooperating with the major test strip manufacturers worldwide, we reached a leading market position in 2007. In Frankfurt we are working with an interdisciplinary team of biologists, mathematicians, software developers and image processing experts.

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| Nonspecific services        |
| Bioinformatics              |

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BioSpring GmbH

CEOs: Dr. Sylvia Wojczewski, Dr. Hüseyin Aygün

Alt-Fechenheim 34
D-60386 Frankfurt am Main
Phone +49 69 408 07222
Fax +49 69 408 94489
info@biospring.de
www.biospring.de

BioSpring is a cGMP and ISO 13485 certified specialist manufacturer of therapeutic, diagnostic and research oligonucleotides and a provider of analytical services related to oligonucleotides. BioSpring accompanies projects in the oligonucleotide field from early research to the marketing phase employing efficient manufacturing and analytical technologies.

BioSpring supports its customers worldwide to efficiently develop their oligonucleotide products. BioSpring is a privately owned company with headquarter in Frankfurt, Germany, that has been providing services to the oligonucleotide industry for more than 17 years.

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Biotec-Fischer GmbH

CEO: Michael Fischer

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Phone +49 6408 6072
Fax +49 6408 640165
info@biotec-fischer.de
www.biotec-fischer.de

Biotec-Fischer GmbH is a manufacturer and distributor of electrophoresis equipment for scientific and clinical applications. In addition, the sales program contains gel documentation systems and densitometry software specially designed for routine clinical and scientific applications such as 1D and 2D electrophoresis.

Another area of business comprises chemicals, reagents and consumable kits for clinical electrophoresis applications. The sales program is rounded out by a wide range of analytical instruments such as UV/VIS spectrophotometers, HPLC, GC and AAS.

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Bioinformatics

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Nonspecific services

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Red Biotech
Green Biotech
White Biotech
Nonspecific services
Bioinformatics
BIT Analytical Instruments GmbH

CEOs: Thomas Eck, Nico Regente
Am Kronberger Hang 3
D-65824 Schwalbach
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Fax +49 6196 806-200
info@bit-group.com
www.bit-group.com

BIT Analytical Instruments is part of the BIT group companies. BIT provides OEM services for complex IVD, medical and life science instruments and compact medical appliances. Its portfolio comprises complete product development, design, contract manufacturing and after-sales service for appliances used in clinical diagnostics, life sciences and biotechnology.

Its technology platforms allow the integration of equipment of varying sizes and configurations for a range of diagnostic processes. BIT’s solutions are available worldwide. The company is ISO 9001 and ISO 13485 compliant and is a FDA-registered contract service-provider.

Bochem Instrumente GmbH

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Fax +49 6471 9282-30
info@bochem.de
www.bochem.com

Bochem Instrumente GmbH was established in 1957 and has been a leading manufacturer of metal goods and instruments for laboratory requirements since 1957. The company has state-of-the art production equipment. The entire production program manufactured by its experienced production workers is directly available from its warehouse. Orders can be shipped to its international customers without any delay.

The product portfolio includes frames and clamps, lab jacks, containers, gas burners, wire products, laboratory furniture and tools. Customized production is available on request. Alongside manufacturing techniques involving various metals, Bochem specializes in stainless steel products and is now a leading supplier of such products for laboratory use.

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**Business activities**

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BRAIN AG

BRAIN AG is an industrial “white” biotech company which discovers and develops novel bioactive natural compounds and proprietary enzymes for its partners and customers in the chemical and pharmaceutical industries as well as the food and cosmetics industries. With its unique approach to the discovery and production of new biological compounds and biocatalysts, the company achieves creative solutions by harnessing nature’s untapped biodiversity. Its success is built on its proprietary BioArchive comprising millions of genes, proteins and metabolic pathways from microbial isolates and metagenome libraries. Since its foundation in 1993, BRAIN has entered into over 80 strategic partnerships and alliances with nearly all the relevant companies within the chemical industry, for example BASF, Ciba, Clariant, Evonik, DSM, Genencor, Henkel, Nutrinova, RWE, Sandoz, Schering, Südzucker and Symrise, to name but a few. BRAIN currently employs 114 highly skilled people. For their groundbreaking industrial biotechnology activities for a sustainable “biologisation of the chemical industry” using nature’s toolbox for industrial processes, BRAIN and its CEO Dr. Holger Zinke received the “Deutschen Umweltpreis 2008” of the “Deutsche Bundesstiftung Umwelt”, DBU.

Capricorn Scientific GmbH

Capricorn Scientific is a company which is expected to set a new standard in the field of cell culture. We specialize in the manufacture and worldwide distribution of cell culture products for research, development, diagnostic and bio-pharmaceutical production. The company manufactures products for the cultivation, storage and separation of cells. Our team of highly skilled and experienced specialists has been working in the field of cell culture for many years. We are committed to providing high quality, reliability, and the service you have come to expect from a globally active cell culture company. The mission of Capricorn Scientific is to provide quality cell culture media components, products, and services using the highest safety and compliance standards, to meet the needs of our customers in the global bioprocessing and clinical diagnostic industries. Capricorn Scientific produces a range of fetal bovine serum and other sera, protein fractions, and cell culture media supplements.

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Based in Sunnyvale, California, Cepheid is a leading molecular diagnostics company that is dedicated to improving healthcare by developing, manufacturing, and marketing accurate yet easy-to-use molecular systems and tests. By automating highly complex and time-consuming manual procedures, the company’s solutions deliver a better way for institutions of any size to perform sophisticated genetic testing for organisms and genetic-based diseases.

Through its strong molecular biology capabilities, the company is focusing on those applications where accurate, rapid, and actionable test results are needed most, such as managing infectious diseases and cancer. For more information, visit www.cepheidinternational.com. Since 2007 German customers can benefit from our products. In 2012, Cepheid GmbH was founded in Frankfurt/Main.

The Chemengineering Group provides first-class and well-proven consulting and engineering services to the highly GxP-regulated life sciences industries, including pharmaceuticals and biotechnology. The Technology Designers handle investment projects within all disciplines. Technology design at Chemengineering encompasses the conceptual phase, basic and detailed design as well as the processing and qualification of small or sophisticated large-scale projects. This comprises the planning and implementation of plants including upgrades and construction of production plants, development and research centers, facilities to sustain infrastructures or complete factories. In this regard, the company acts primarily as a general planner. The Business Designers provide consulting services independent from investment projects: Management Consulting ranges from business process management, process optimization up to investment consulting. Compliance Consulting is concerned with implementation of regulatory requirements in the fields of pharmaceuticals, medical devices and other industries. Information Systems Consulting covers the entire process of computerized systems validation.
Chugai Pharma Germany Ltd.

CEO: Dr.-Ing. Bernd König
Lyoner Strasse 15
D-60528 Frankfurt am Main
Phone +49 69 6630 00-0
Fax +49 69 6630 00-50
info@chugaipharma.de
www.chugaipharma.de

Chugai Pharma Germany is the local affiliate of Chugai Pharmaceuticals, located in Tokyo, Japan, member of the Roche Group. In Germany, we provide high-quality biotech pharmaceuticals in the areas of oncology/supportive care and rheumatology/immunology as well as superior services for patients and all stakeholders in healthcare. We are dedicated to continuously developing better treatment options by high investments into our strong global research activities in our core indication areas.

CIRI GmbH
Centre of Innovative Diagnostics and Therapeutics Rheumatology, Immunology

CEO: Dr. Frank Behrens
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D-60528 Frankfurt am Main
Phone +49 69 6301-7302
Fax +49 69 6301-5331
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www.ciri-clinical.de

Clinical Research in the field of rheumatology, immunology

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Main field of biotechnology
Red Biotech
Green Biotech
White Biotech
Nonspecific services
Bioinformatics

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CSL Behring is a leader in the plasma protein therapeutics industry. Committed to saving lives and improving the quality of life for people with rare and serious diseases, the company manufactures and markets a range of plasma-derived and recombinant therapies worldwide. CSL Behring therapies are indicated for the treatment of coagulation disorders including hemophilia and von Willebrand disease, primary immune deficiencies, hereditary angioedema and inherited respiratory disease.

The company’s products are also used in cardiac surgery, organ transplantation, burn treatment and to prevent hemolytic diseases in newborns. CSL Behring operates one of the world’s largest plasma collection networks, CSL Plasma. CSL Behring is a subsidiary of CSL Limited, a biopharmaceutical company headquartered in Melbourne, Australia.

Cyntegrity offers services and systems for efficient risk-based monitoring of a clinical trial. We offer a risk management process through a data-driven software system which provides you a 100% control of your clinical trial. Long experience of our employees in data analysis in different clinical studies allowed us to identify early risk indicators for major risk factors. For instance, protocol non-compliance, patient dropouts and technical defects of EDC software, etc. The essence of our knowledge is concentrated in our systems and services. They enable a safer and more cost efficient monitoring process of your trial.

Core competencies:
- Integrated Risk Based Monitoring
- Monitoring Software for clinical trials
- Data Analysis Data Mining & Big Data

Contact us for the free evaluation of the cost reduction plan of your trial monitoring.
CytoTools AG is a biotechnology company focused on translating fundamental biology research on the mechanism of cell growth and programmed cell death into unique therapies that are designed to treat the cause of the disease rather than the symptoms.

The Company’s business strategy is to advance its therapeutic candidates to a stage where they can be partnered, licensed or sold to international pharmaceutical companies for further clinical development or global marketing. CytoTools has an extensive and broad patent portfolio that covers its know-how and therapeutic assets worldwide.

Danico GmbH develops and distributes climate-friendly Lubricants which are made of renewable resources, and special cosmetics for sport. Our product range includes lubricants for chains, shock absorbers, hydraulic machines, brake fluids and medical devices. Together with our cooperation partners, we currently offer a broad range of eco-certified and energy-efficient high-performance bio-lubricants and cooling agents.

Aims in the development of our biotech lubricants are the protection of water resources respectively for fauna and flora, the avoidance of carbon dioxide emissions and reduction of dependence on oil. Our products enable successful implementation of bio-economy in manufacturing industry.
Dentons Europe LLP

Dentons is a new global law firm driven to provide you with the competitive edge in an increasingly complex and interconnected marketplace. Dentons is built on the solid foundations of three highly regarded law firms: Salans LLP, Fraser Milner Casgrain (FMC) LLP and SNR Denton. Our approximately 2,600 lawyers and professionals in more than 75 locations across 50-plus countries are dedicated to providing you with consistent high-quality service wherever you do business. In Germany, in our offices in Berlin, Frankfurt/Main, Munich and Duesseldorf we advise you in all key areas of business and commercial law.

Dentons’ Life Sciences experts in Germany advise on project-related transactions, or alternatively as an "outsourced legal department", with deep industry-specific knowledge, creativity and years of expertise to ensure their clients’ success. Whether licensing contract deals or regulatory issues relating to the drug advertising law, as part of a team of over 80 lawyers and tax consultants in Germany, Dentons provides companies in the areas of pharmaceuticals, diagnostics, biotechnology and medical devices with a future-oriented and interdisciplinary legal advice.

CEO: Wilhelm Sänger

Founded in 1970, DRG is a multi-national specialty medical equipment and diagnostics manufacturer and distributor with successful representation in over 110 countries through a network of DRG subsidiaries and local distributors.

The German division, DRG Instruments GmbH, founded in 1973, is located in Marburg and specializes in the development and the production of innovative ELISAS and Chemiluminescent assays for both routine and research applications in the fields of diabetes diagnosis, endocrinology, prenatal/neonatal supervision, thyroid function and many more. At the end of 2008, DRG began developing a closed system, its DRG:HYBRiD.XL, a fully automated analyzer for the simultaneous determination of immunoassays as well as clinical chemistry.

Business activities

- Research
- Development
- Production
- Marketing
- Sales

Services

- Analytics
- IT, Software
- Lab equipment
- CRO
- Trainings
- Consulting

Further

Applications

- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
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Main field of biotechnology

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Business activities

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Main field of biotechnology

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Elementar Analysensysteme GmbH

CEO: Albrecht Sieper

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Phone +49 6184 9393-0
Fax  +49 6184 9393-400
info@elementar.de
www.elementar.de

Elementar Analysensysteme GmbH, a spin-off from the analytic technology division of Heraeus, is a major producer of devices for analyzing non-metallic elements such as carbon, nitrogen, sulfur, hydrogen and oxygen. The company specializes in devices for CHNOS elemental analysis, nitrogen/protein analysis, and TOC/TNb analysis for micro and macro samples. The field of non-metallic analysis is rounded off by special attachments and additional units. Our product range, which is designed to offer complete problem solutions for users, is backed up by a wide variety of accessories and consumables. The product range also includes instruments for the mass spectrometrical measurement of isotope relations (IRMS) of stable isotopes 15N, 13C, 34S, 18O or 2H in connection with elemental analysis (E/A) for applications in the general soil and plant research, but also for the investigation of origin, quality or falsification of food such as meat, dairy products or wine.

Engelhard Arzneimittel GmbH & Co. KG

CEOs: Oliver Engelhard, Richard Mark Engelhard, Dr. Rolf Engelhard

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D-61138 Niederdorfelden
Phone +49 6101 539-300
Fax  +49 6101 539-315
info@engelhard.de
www.engelhard.de

Engelhard Arzneimittel GmbH & Co. KG is a modern, medium-sized pharmaceutical company based in the Rhein-Main region. The company was founded in 1872. Its product range mainly comprises respiratory tract therapeutics and pharmaceutical products for the treatment of various skin diseases, including established phytopharmaceuticals especially for the pediatric practice.

The company’s products hold a market-leading position in the field of the OTC business in Germany and abroad. Through permanent target-oriented research with innovative product development, Engelhard has become an efficient pharmaceutical manufacturer, standing for high-quality pharmaceuticals. Engelhard Arzneimittel exports to markets on all continents.

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Red Biotech
Green Biotech
White Biotech
Nonspecific services
Bioinformatics
## Ergomed Group GmbH

**CEO:** Dr. Miroslav Reljanovic  
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Fax +49 6196 90754-67  
info@ergomedplc.com  
www.ergomedplc.com

ERGOMED is a worldwide clinical development company with headquarter in Guildford, UK. While experienced in a wide variety of indications, ERGOMED specializes in the fields of oncology, neurology, immunology and rare diseases.

ERGOMED delivers excellent performance through the use of its unique study Site Management model and Study Physician Support. ERGOMED has a 15-year track record of successfully managing clinical developments from Phase I through to late phase programs.

ERGOMED has been involved in more than 70 substance developments with biotech and pharma companies around the globe resulting in the successful registration of many substances at more than 1000 sites worldwide.

### Business activities
- Research
- Development
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- Further

### Applications
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### Main field of biotechnology
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- Nonspecific services
- Bioinformatics

## Evonik Industries AG

**CEO:** Christian Kullmann  
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Fax +49 201 177-3475  
bioeconomy@evonik.com  
www.evonik.com

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik’s corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms. Evonik is active in over 100 countries around the world.

In fiscal 2013 more than 33,000 employees generated sales of around €12.9 billion and an operating profit (adjusted EBITDA) of about €2.0 billion. Evonik serves the bioeconomy markets with products such as feed amino acids Biolys®, ThreAMINO®, TrypAMINO® or bio-based polymers DYNACOLL® Terra, DYNAPOL® Terra, VESTAMID® Terra.

### Business activities
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### Main field of biotechnology
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Fiebig-Nährstofftechnik is a producer of high-quality animal serum and animal blood specialties. Its production program comprises sterile, defibrinated and stabilized blood from sheep, goats, horses, cattle and rabbits for the production of blood agars and other biotech applications. Fiebig-Nährstofftechnik has its own farm from which it obtains its blood and serum products.

**Business activities**
- Research
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**Applications**
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**Main field of biotechnology**
- Red Biotech
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- White Biotech
- Nonspecific services
- Bioinformatics

Fresenius Kabi AG is a global healthcare company that specializes in lifesaving medicines and technologies for infusion, transfusion and clinical nutrition. The company’s products and services are used to help care for critically and chronically ill patients. Fresenius Kabi’s product portfolio comprises a comprehensive range of I.V. generic drugs, infusion therapies and clinical nutrition products as well as the medical devices for administering these products. Within transfusion technologies, Fresenius Kabi offers products for the whole blood and blood components collection and processing as well as for transfusion medicine and cell therapies.

With its corporate philosophy of “caring for life”, the company is committed to putting essential medicines and technologies in the hands of people who help patients and finding the best answers to the challenges they face.

**Business activities**
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**Main field of biotechnology**
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- Bioinformatics
**Fuchs Patentanwälte Partnerschaft mbB**

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Fax +49 611 7142-20  
frankfurt@fuchs-ip.eu  
www.fuchs-ip.eu

FUCHS is one of the leading intellectual property law firms in life sciences and chemistry in the Rhein-Main area. Our services cover the entire spectrum of intellectual property, including patent, trademark and design law. FUCHS’ patent attorneys have both wide-ranging legal expertise and profound knowledge in natural science and technology. The pharmacists, biologists, biochemists and chemists in our team help you build the ideal IP portfolio for your company. Today, IP protection requires far more than a national strategy. FUCHS has a strong international network of partner law firms assuring the highest level of quality and flexibility for our clients across the globe. Thereby, we are able to quickly and globally carry out individual legal protection strategies for you. From individual inventors to major corporations - clients from a wide range of sectors value our experience. Lean, modern structures enable us to react at the shortest notice and deliver tailored solutions to meet your own special needs.

**GBG Forschungs GmbH**

CEO: Prof. Dr. med. Sibylle Loibl

Martin-Behaim-Strasse 12  
D-63263 Neu-Isenburg  
Phone +49 6102 7480-0  
Fax +49 6102 7480-40  
Info@GermanBreastGroup.de  
www.gbg.de

“Healing through innovation, competence and partnership” has been the vision of the GBG Research Institute since its foundation in 2003. It allows us professional handling of clinical trials with the highest quality standards, maximum scientific independence and professional neutrality. The German Breast Group (a cooperative-academic study group) and the GBG Forschungs GmbH (a professional research institute), jointly fulfill the high legal standards required for the conduct of clinical trials specialized in breast cancer. In work groups (subboards), we develop innovative ideas for new academically oriented trial concepts and monitor the safety of trial participants. Our network consists of approximately 500 study sites and 1000 clinical investigators. We also cooperate with both national and international study groups as well as pharmaceutical companies to ensure the success of our trials.

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**Main field of biotechnology**

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**Main field of biotechnology**

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Bioinformatics
Mediating between the worlds of science and society - this is our task. We see our role primarily as a builder of bridges, illuminating the complex interrelations of the life sciences for specific target groups. Our integrated communication strategies combine public relations, public affairs, internet and traditional media, strategy and dialogue processes, media training, scientific studies, event management, moderation and mediation. We are supporting clients in the industrial, service and public sectors with strategy advice, studies, press and public relations, editing, mediation, etc.

Our interdisciplinary team combines scientific know-how with practice-orientated expertise. Natural scientists with long-term experience form the core and experts with special background or long-established practice and experience in journalism, communication and advertising round the team off. A special focus of the professional work is on nutrition, energy, environment, biotechnology, renewable raw materials and biofuels, health issues and agribusiness.

**Genius GmbH**

**CEO: Dr. Klaus Minol**

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D-64295 Darmstadt  
Phone +49 6151 6272-300  
Fax +49 6151 6272-301  
info@genius.de  
www.genius.de

**GenXPro GmbH**

**CEO: Dr. Peter Winter**

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Phone +49 69 9573-9710  
Fax +49 69 9573-9706  
info@genxpro.de  
www.genxpro.de

GenXPro GmbH is well-recognized worldwide for its innovative genome-based solutions for all sectors of the life sciences. These provide to customers as well as to the company itself hitherto unachievable insights into complex processes of life which determine health and disease, productivity and personal fate. Since its foundation in 2005, GenXPro has become a well-respected service provider and partner in public and commercial projects. Our technologies address all phases of the expression of genomes. In human research, we contribute substantially to diagnosis and prevention of diseases and development of new drug targets. In agriculture, we assist in accelerating plant and animal improvement at significantly reduced costs. We develop toxicological tests that help to substantially reducing the number of animals needed to assess the safety of products. GenXPro developed established and automated standard preparations for all types of samples from human, plant and animal tissues and from body fluids. Sequencing of these samples generates large amounts of data that are turned into knowledge by GenXPro’s bioinformatics unit.
Sanofi Genzyme

CEO: Martina Ochel
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Fax +49 6102 3674-100
info-de@genzyme.com
www.genzyme.de

Genzyme is committed to discovering and delivering transformative therapies for patients with rare and special unmet medical needs, providing hope where there was none before.

Genzyme has pioneered the development and delivery of transformative therapies for over 30 years. Founded in 1981 in Boston, Massachusetts, Genzyme evolved from a tiny start-up with just a handful of employees to one of the world’s leading biotech companies. Acquired by Sanofi in 2011, Genzyme now benefits from the reach and resources of one of the world’s largest pharmaceutical companies, with a shared commitment to improving the lives of patients.

GFE Gesellschaft zur Forschung, Entwicklung und Distribution von Diagnostika im Blutspendewesen mbH

CEO: Dr. Reiner Babel
Altenhöferallee 3
D-60438 Frankfurt am Main
Phone +49 69 9510 327-23
Fax +49 69 9510 327-20
info@gfeblut.de
www.gfeblut.com

Specialized in viral nucleic acids detection (DNA and RNA) by Real-Time PCR in the framework of blood donation testing, the products of GFE mbH comply with the highest quality standards (CE-Certification according to IVDD guidelines) and therefore open up a multitude of possibilities for handling molecular biological samples. The reagents can either be used manually or fully automated, depending on what is best suited to meet customer specifications.

Additionally, GFE Blut’s constantly growing portfolio also spans the complete range from manual over semi-automated to fully automated sample processing solutions for these assays. As one of the latest developments GFE Blut is providing to their customers as the first company in the world a HIV-1 Triple Target Test to make blood testing more safer.
This firm of patent attorneys in Frankfurt am Main provides legal advice on technical aspects of trademark and patent protection for universities, research institutes and a wide range of small and mid-sized enterprises in Germany and abroad. In view of the background with its patent attorneys (biology, biochemistry and chemistry) and their extensive experience of providing advice on biotechnology issues, Gierlich & Pischitzis is familiar with all areas of the field, including highly specialized questions.

Gierlich & Pischitzis is a full-service firm dedicated to providing clients with the best possible legal advice and protection for their innovations. Its services cover advice on applying for, defending and enforcing patents, trademarks, utility models and designs. The firm also provides freedom-to-operate opinions on new products and due diligence opinions for the evaluation or transfer of rights.

GOBIO stands for competence and experience in ecotoxicology and applied Biology. Our work focuses on ecotoxicological test procedures according to DIN/EN ISO 17025, the development of test systems for the detection of endocrine disruptors, chemicals testing, implementation of the EU Water Framework Directive and qualified sampling of various environmental compartments.
Hilgenberg GmbH

CEO: Ingo Hilgenberg

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With almost 100 years of experience, Hilgenberg GmbH is a producer of high-precision glass products for different industries. You find our products in practical terms in laboratories as well as in other products, where we are able to play off one of our strengths: customized development and manufacture of the products and prototypes according to our customers needs.

We supply more than 3.000 customers worldwide with e.g. capillaries, test tubes, pipettes as well as glass beads for different fields of application.

humatrix AG

CEO: Dr. Anna C. Eichhorn

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humatrix AG is a biotechnology company specialized in the analysis of human DNA. In the field of private paternity testing humatrix has set quality standards. Meanwhile, the company’s focus is in the area of personalized medicine.

In that field, humatrix offers nationwide in collaboration with physicians and pharmacies DNA-based test systems to avoid inefficiencies and adverse reactions in drug therapies and preventive DNA diagnostics to improve the quality of life.

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HYCOR
(Niederlassung Deutschland)

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HYCOR is a manufacturer and supplier of high-quality diagnostic instrumentation and in-vitro diagnostics for allergy and autoimmune testing. Since its founding, HYCOR has expanded its presence into allergy and autoimmune products used in clinical laboratories, hospitals and doctors’ offices worldwide.

Among its products, HYCOR markets the HYTEC® and AUTOSTAT™ brands. The company is focused on delivering products that provide the highest value to clinicians through innovation, reliability and customer service. The HYTEC288 offers a broad allergy and autoimmune menu optimized on a single platform. Hycor’s mission is to drive new products, technologies and medical education materials designed to improve patient care and advance healthcare globally.

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Applications
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- Chemistry
- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
- Pharmaceuticals

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- White Biotech
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- Bioinformatics

IBACON GmbH

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Founded in 1994, IBACON is an independent contract research institute serving the global chemical and pharmaceutical industry. IBACON currently has around 130 employees, mainly scientists and technical staff. The testing facility is certified as conforming to Good Laboratory Practice (GLP) standards and offers a wide range of aquatic and terrestrial ecotoxicology studies (laboratory and field tests), physical and chemical parameters and environmental fate analyses.

All studies are performed in accordance with internationally valid guidelines (e.g. OECD) for the registration and approval of plant protection products, industrial chemicals, biocides, and products for human and veterinary medicine. IBACON is offering standardised test series as well as tailor-made study designs. In addition, IBACON regularly takes part in ring tests to establish new testing procedures and guidelines.

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ID-Labor GmbH

ID-Labor GmbH, founded as I.D. Labor für DNA-Analyse in 1998, is a company which is specialized on DNA profiling and parental testing.

Immundiagnostik AG

Immundiagnostik AG is an internationally active diagnostics company that develops and produces innovative immunoassays and other analytical methods for routine clinical and life science research. The product portfolio is completed by a broad range of antibodies and antigens.

The company focuses on providing effective tools for prevention, differential diagnosis and therapy monitoring in the areas of gastroenterology, cardiovascular diseases, disorders of the skeletal system and oxidative stress. Cooperations with the pharmaceutical industry and a tight scientific network provide the basis for successful product development.
Immunolab GmbH develops and manufactures ELISA kits for clinical diagnostics and for food analytics. Immunolab was founded in 1992, is certified according to ISO 9001 / ISO 13485 and cooperates with numerous companies worldwide. Recently, Immunolab extended its international involvement by joining the Biovendor Group. In addition to offering its portfolio of validated products, Immunolab always attempts to implement individually adapted test kits requested by customers.

Most products focus on clinical diagnostics by detecting human antibodies (IgG, IgA, IgM) against bacteria, parasites and viruses that cause different human infectious diseases including mumps, measles, whooping cough, borreliosis and many others. Furthermore, Immunolab offers products for diagnostics of allergy and food intolerance (IgE, IgG and IgG4).

Another set of Immunolab products are immunological test kits for measuring concentrations of contaminants and additives in food and beverages like milk, meat, nuts or fruit juice. Testable substances are mycotoxins, antibiotics and vitamins, but also other foodstuffs like peanut and gluten, which may result in severe allergic reactions of some humans.

ibs | tecnomara GmbH

For more than 40 years, INTERA Biosciences GmbH has been your competent partner for laboratory equipment and devices. Today, we see ourselves even more as provider of high-quality laboratory equipment and of services in the field of products, technology and user consulting. It is our common aim to provide efficient solutions that enable our clients to work in a long-term, reliable and cost-effective manner.

Today, our own development and production is complemented by high-quality and innovative brands – like INTEGRA Biosciences, Fedegari Autoklaven AG, NuAire Inc, Micronic B.V. and some others that are marketed exclusively. For many years, we have been business partners of these world leading producers of small laboratory devices, industrial laboratory equipment and other scientific laboratories. Right from the beginning, our outstanding service has been the advisory competence of all our staff. With our qualified customer services operators, rapid reaction time and reliable service, we can support you in all your questions and technical needs. Of course, IQ, OQ, PQ or GMP, GLP, CE, ISO and TÜV as well as NSF und FDA, but also DIN EN, etc., can be met in reference to customers’ orders.
Intermed is commissioned under the German Medicines Act to conduct studies on how to improve the efficacy and tolerability of medicines. It works on the development of modern medication in collaboration with leading pharmaceutical companies. The efficacy of the substances has already been proven in preliminary studies and the aim is to enhance their effectiveness and reduce side-effects.

Intermed specializes, among other things, in psychiatric diseases, arterial hypertension, metabolic and hormonal disorders, pain related and respiratory related diseases. It conducts Phase II-IV studies at its sites in Wiesbaden and Frankfurt am Main.

Intermed GmbH
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www.jumo.net

JUMO is a family-owned enterprise in the third generation. Its product spectrum covers components and system solutions for the measurement, control, recording and analysis of physical and chemical parameters. The products range from sensors for temperature, pressure and analytical measurement to the control and recording of measurement data. These instruments and systems are used in the pharmaceutical and biotechnology industry.

Thanks to its two prefabrication divisions for metalworking and electronic modules, the company can provide a fast, flexible response. A global service network, consisting of 24 independent subsidiaries abroad and additional external service partners, ensures that JUMO is always close to its customers.

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Keller Medical GmbH

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Fax +49 6196 56163-19
info@keller-medical.de
www.keller-medical.de

We read the blood - Keller Medical is a distributor of innovative Point-of-Care-Diagnostic with single-use reagents and almost maintenance-free analysers. While our focus is on POCT coagulation, we also offer instruments, tests and quality control material for blood gases, oximetry, platelet function tests and others. We market, sell and service our analysers and train and educate users.

Our second product range is transcutaneous monitors for blood gases (pCO₂ and pO₂) and NIRS for use in neonatology, pneumology, intensive care and cardiac surgery. Our mission is to offer our customers flexible solutions with innovative products and an excellent service. Keller Medical is a competent partner for hospitals and manufacturers.

Otto E. Kobe KG

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www.kobe.de

Kobe is a medium-sized company that offers products of laboratories, cleanroom and production. We only offer high-quality products of well-known producers as well as our private label LLG-Labware. These products are being used in biotechnology, the pharmaceutical industry, medical technology, research and development.

Our qualified staff provides expert knowledge in all application-related matters. Service, individuality and competence are the core values of our company. Due to strong partners and our central distribution, we can guarantee the complete supply of your laboratory. Our services spectrum contains more than 700.000 products, like laboratory chemicals, consumables, devices and laboratory furniture. As a special service, we also offer custom-made devices, repair services, pipette calibration and cartridge regeneration.

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Main field of biotechnology

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LI-COR Biosciences GmbH

LI-COR Bioscience GmbH is a subsidiary of the US company LI-COR Bioscience, a producer of innovative systems for biotechnological research. It specializes in the development of sensitive labeling and detection systems based on infrared technology. These are used for a wide range of applications in proteomics and enomics.

Its Germany subsidiary Li-COR Biotechnology is responsible for product distribution and support in Germany, Austria and Switzerland.

LOT-QuantumDesign GmbH

LOT-QuantumDesign in Darmstadt is the European headquarters and main office of the LOT-QuantumDesign group which is one of the most powerful European suppliers of components and leading-edge instrumentation with applications in materials characterization, thin film analysis, special cameras and imaging, spectroscopy, photonics and nano- and biotechnology.

A dedicated team of more than 100 people in most European countries is supported by state of the art infrastructure in order to provide fast, flexible and reliable service to customers. The company provides leads, working advice, and individual solutions for its customers’ applications. It can also carry out tests and sample measurements in its application lab.

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Matrix BioScience GmbH

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MATRIX BioScience GmbH combines 40 years of experience in the field of biochemical research with application of its results in the field of medicine and related areas, as well as in product development and production. With decades of research on extracellular matrix, collagen and cell culture, our expertise will help you to reach your goals.

We have the know-how for production of highly purified injectable sterile collagen implants. Our wide-ranged portfolio includes connective tissue components and collagen types for cell culture and analytics. We are highly experienced in cosmetic anti-aging active ingredients, aseptic filtration, contract research, radical scavenging efficacy tests. We continually expand our product and service portfolio according to customer needs.

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MedSurg GmbH

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MedSurg GmbH is a spin-off of Hamann Softwareentwick-lung and a vendor of a web-based eCRF solution for the documentation of clinical trials that is fully compliant to 21 CFR/Part 11. Experience obtained in clinical trials dating back to the year 2000 has led to the development of a tool that improves quality of data, reduces workload, increases efficiency and delivers a major cost reduction for data acquisition.

Validated data is stored in a database system and hosted at a high-security data center in Germany. The tool encompasses all processes of relevance to trials, such as online monitoring, audit trails, SAE management, randomization and many more. The system is used by the pharmaceutical industry, research centers and CROs. The modular “pay per use” service is highly attractive for cost-conscious organizations that want to avoid high pre-investment costs for systems and software.

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  - Lab equipment
- CRO
- Trainings
- Consulting
- Further

Applications
- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
- Pharmaceuticals

Main field of biotechnology
- Red Biotech
- Green Biotech
- White Biotech
- Nonspecific services
- Bioinformatics
Merck is a leading company for innovative and top-quality high-tech products in the pharmaceutical and chemical sectors. With its four divisions Merck Serono, Consumer Health, Performance Materials and Merck Millipore, Merck generated total revenues of €11.1 billion in 2013. The portfolio of Merck Millipore comprises products for life science research such as assays, analytical reagents, test kits, products and services for the entire process chain in the pharmaceutical and biotech industry.

Merck is the world’s oldest pharmaceutical and chemical company – since 1668. Merck, Darmstadt, Germany is holding the global rights to the Merck name and brand; exceptions are Canada and the United States, where the company is known as EMD.

Mettler Toledo is a leading global manufacturer of precision instruments. It is the world’s largest manufacturer and marketer of weighing instruments for use in laboratory, industrial and food retailing applications.

The company also holds top-three market positions in several related analytical instruments and is a leading provider of automated chemistry systems used in drug and chemical compound discovery and development. In addition, Mettler Toledo is the world’s largest manufacturer and marketer of metal detection systems used in production and packaging.

### Business activities

- Research
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### Applications

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#### Main field of biotechnology

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### Business activities

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Milenia Biotec GmbH develops, produces and markets immunodiagnostics globally. The company was founded in 2000 as a spring-off of DPC Biermann GmbH in Bad Nauheim. Its core products are “Point-of-Care”-tests for the diagnosis of allergies, infections and for the measurement of immune mediators. Product marketing is carried out by qualified sales representatives in Germany, and in other countries by independent distributors.

MK Versuchsanlagen GmbH constructs and manufactures laboratory systems, made of modern plastics or other material, for the use in technical colleges (FH, TH) and universities as well as in private research institutes and industrial testing plants. Our philosophy, to provide problem-oriented solutions to the customer, is achieved by planning, constructing and manufacturing all testing plants in close cooperation with our customers. We provide you with expert support and give professional advice on how to solve your specific problems. Our testing plants are reliable and due to their user-related construction easy to use in daily handling.

Worldwide, research institutes and industrial companies in the field of climate research, geology, mineralogy, planetology, volcanology and for reconnaissance of mineral resources and rating of workability, are ranked among our main customers. Additionally, our plants will be found in the field of medical ultra-trace analytics. Furthermore, we number manufacturers of filling plants and of isolators among our customers, as well as the pharmaceutical industry as end customer. According to our product leadership, we reckon the worldwide leading pharmaceutical companies among our customers.
Histology, immunohistochemistry, cytology and hematology: Being the first spin-off of the Senckenberg Research Institute, MORPHISTO offers a wide range of laboratory and research services and special products for the daily routine in medical and biological laboratories. We are involved in product development, clinical studies and contract research for our partners in the pharma industry or at universities. We are your partner for all kinds of research projects concerning histology, cytology, immunohistochemistry, comparative anatomy or evolutionary biology. Profit from our experience in research, application and method development in paraffine histology, cryo-sectioning and immune staining. With our laboratory equipment, we are able to section all kinds of tissues or other materials, starting from small biopsies up to whole body sections of rats for autoradiography. Our unique selling point is the combination of the service lab with a production lab for laboratory chemicals. We produce ready-to-use chemicals for histology, cytology and hematology and we use these stains and dyes ourselves in our lab. Our products are double tested: first by our quality management and second by our service lab under real life conditions. Finally, we offer trainings in various methods of histology, cytology and immunohistochemistry in our lab, as well as in-house for our customers.

MOTUS is a manufacturer of machinery and special installations. We are specialized in consulting, engineering, technical development, qualification-activities, RAB-systems, containments, automatic Charging systems for freeze dryers, powder transfer systems, magnetic stirrers and special machines for the Life-Sciences- and pharmaceutical industry.

- Engineering
- Machines
- Equipment
- Accessories
- Optimisation of production lines
mti diagnostics GmbH

CEO: Alexandra Eiden
Oberemser Strasse 15
D-65510 Idstein
Phone +49 6126 9595-262
Fax +49 6126 9595-264
mti@mti-diagnostics.com
www.mti-diagnostics.de

mti diagnostics GmbH was established to meet the growing need for a diagnostics company offering a wide range of high-quality diagnostic products and OEM manufacturing. With their experience in developing and manufacturing diagnostic products and their use in clinical laboratory setting, mti diagnostics offer their expertise to help their customers to provide the best and most cost-effective products.

The company is widely recognized for in-depth knowledge of manufacturing biochemistry kits, immunoturbidimetric tests and auxiliary solutions such as system cleaners, extensive contract manufacturing capabilities, large lot production capacity, extremely high-quality and productivity, CE-registered and IVD MD-compliant manufacturing facilities. As a supplier of in-house products and a distributor of third party products, the company can customize products for specific applications, enabling it to offer a broad product line.

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Mundipharma GmbH

CEO: Anders Fogstrup, Stuart Baker, Åke Wikström
De-Saint-Exupéry-Straße 10
D-60549 Frankfurt am Main
Phone +49 695060 29-000
Fax +49 695060 29-201
info@mundipharma.de
www.mundipharma.de

After having been founded in 1967, Mundipharma has specialised in analgesics. Further areas of competence are oncology and respiratory diseases. Mundipharma is very service-oriented and develops highly effective pharmaceuticals with the best possible tolerability, thus optimizing the therapy for both physicians and patients.

In Germany, this medium-sized company belongs to the leading drug manufacturers. Mundipharma has 980 staff members in Germany, 100 of which are employed at the company research center in Limburg. It is Mundipharma's objective to provide long-term support for patients by offering highly effective medication.

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nadicom specializes in GMP-compliant identification and differentiation of bacteria, fungi and yeasts in pure cultures, environmental samples and complex mixed cultures. Close cooperation with the Max Planck Institute in Marburg and the Institute for Applied Microbiology of Karlsruhe Institute of Technology guarantees and facilitates knowledge transfer from basic to applied research. The company’s services are focused on molecular-biological identification and differentiation of microorganisms, DNA fingerprints, contract research and consultancy. nadicom optimizes its methods through its own research and constant further development, and ensures their practical feasibility by putting them regularly into practice.

NeuroCode AG is a certified contract research organization specialized in brain research. Preclinical and clinical labs allow testing of pharmaceuticals and nutraceuticals acting on the brain. Based on neurophysiological methods like field potentials and EEG recordings which have been developed by NeuroCode itself, are used in drug discovery and translational medicine. One of the main topics is cognitive research where a combination of quantitative EEG recording (Neurocode Tracking) and eye tracking is used to recognize individual responses to audio-visual stimuli like images or videos. This combination is also used in marketing and advertisement research where about three images per second from the brain reflect cognitive and emotional reactions. Spectral signatures of electric brain activity also known as “Enkephaloglyphs” serve to gather more information of the brains communication structure than any other method and have been called mirror of the psyche.
New England Biolabs GmbH

CEO: Dr. Thomas Möllenkamp
Brüningstrasse 50, Geb. B852
D-65926 Frankfurt am Main
Phone +49 69 305-23140
Fax +49 69 305-23149
info.de@neb.com
www.neb-online.de

New England Biolabs (HQ based in Ipswich, U.S.) is a recognized world leader in the discovery, development and commercialization of recombinant and native enzymes for genomic research. For nearly four decades, NEB has been shaping the landscape of bioscience research by discovering, developing and supporting superior research reagents for the field of molecular biology incl. restriction enzymes, PCR Polymerases as well as reagents for Next-Gen-Sequencing. New England Biolabs GmbH is the NEB service and logistics hub for customers in Germany, Austria and Eastern Europe. NEB is also the exclusive source for reagents from Cell Signaling Technology (CST) in Germany and Austria. Founded by scientists from NEB, CST has become a world leader in the production of the highest quality antibodies utilized to expand knowledge of cell signaling pathways underlying several diseases including cancer, Alzheimer and Parkinson.

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onoff engineering GmbH

CEO: Rolf Arneke
Niels-Bohr-Strasse 6
D-31515 Wunstorf
Phone +49 5031 9686-0
Fax +49 5131 9686-96
www.onoff-group.de

- Solution Partner for Process Automation in chemicals, pharmaceutical, food & beverage, water technology and oil & gas industry.
- IT-Solution in areas of MES application in process industry.
- Installation services, manufacturing of control cabinets, Field services, Life cycl services.
- Consulting in IT-Networks and security as well as IT-Infrastructure and services.
- Consulting in Automation architecture design in process industry.

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PKCie specializes in executive searches and management consulting for life science companies and other scientific innovators at all stages of development. PKCie’s interdisciplinary team consists of experts with many years of experience and insider know-how from science, industry and consulting - something we consider essential for delivering top quality results in a highly specialized field.

We search and find the right candidate for senior management, executive and non-executive boards. PKCie established an outstanding reputation in the markets thanks to their stringent quality standards.

PolyGen GmbH is an internationally renowned supplier of DNA synthesizers for biomedical sciences. Since 1990, PolyGen has been developing, manufacturing and marketing DNA synthesizers for the production of Oligonucleotides. PolyGen distributes its products and services in Germany through sales and marketing directly and via selected specialized dealers worldwide.

Due to intensive product development, Oligonucleotides are successfully being synthesized throughout the world with PolyGen synthesizers.

In intensive cooperation with universities and research institutions, PolyGen’s product range is constantly being optimized. This dialogue with other institutions helps us to define our goals and leads to product expansion.
PPH plus GmbH & Co. KG

CEO: Dr. med. Johanna Schenk
Am Gänseborn 33/16
D-65239 Hochheim am Main
Phone +49 6146 835551
Fax +49 6146 835636
info@pph-plus.com
www.ppph-plus.com

Operational and consultancy services in clinical development programs to pharma, medical device and biotech companies from all over the world (trials from phase I to IV). We provide clinical trial project leadership from early planning and set-up to study report writing including selection of operational service providers. In addition, we offer "medical monitoring" and support with pharmacovigilance obligations as well as management consultancy in strategic outsourcing and operational benchmarking.

Core competencies:
- National / international project management services to pharma, medical device and biotech companies
- Study start-up services utilizing the VIS Research platform
- Medical leadership for clinical studies
- Pharmacovigilance services
- Management consultancy in strategic outsourcing and operational benchmarking in clinical development
- Medical Science Liaison
- Qualified selection of solution providers

Premier Research Germany Ltd.

Europaplatz 5
D-64293 Darmstadt
Phone +49 6151 8280-0
Fax +49 6151 8280-110
www.premier-research.com

Premier Research is a global solutions-driven CRO which combines a therapeutic focus with operational expertise to deliver clinical trial services for biopharmaceutical and medical device companies.

It focuses on clinical research into analgesia, neuroscience, oncology and cardiovascular disease and has experience in medical device and cardiovascular disease and has experience in medical device and pediatric clinical research.

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Main field of biotechnology

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Main field of biotechnology

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Preventis GmbH, founded in 2003, is a globally operating diagnostics company focusing on the early prevention of diseases. The company’s rapid tests are modern diagnostic tools that represent the latest scientific standard and cover most areas of preventive medicine as well as infec-tiology and reproductive health.

The diagnostic kits are reliable, easy to use and deliver results in just a few minutes. They are therefore ideal for point-of-care diagnostics at the physician’s practice, in a clinical setting or even at home. Preventis’ special focus is the development of innovative tests for the early detection of colorectal cancer. In particular, the Bensheim-based company has established nation-wide corporate screening programs for colon cancer.

Prolytic GmbH is a GLP-certified contract laboratory specialized in bioanalytics and pharmacokinetics as well as complex analytical questions.

We develop and validate methods (e.g. HPLC, LC-MS/MS, RIA, ELISA), analyze biological samples of preclinical and clinical studies as well as samples with complex components, and carry out both their compartmental and non-compartmental pharmacokinetic evaluation.

Due to our long-standing experience in bioanalytics and pharmacokinetics, we are able to give expert advice to our clients.

Our highly qualified employees and our modern equipment make it possible to work rapidly and professionally on the most complex assignments.
The Provadis School of International Management and Technology AG (short name: Provadis Hochschule) was founded in 2003 as a nationally accredited university of applied sciences.

The Provadis Hochschule offers a bachelor study program for candidates seeking an academic career parallel to a full time job in biotechnology and pharmaceutical companies. The course Biopharmaceutical Science focuses on research and development of large molecule drugs and their production using microbes or cell cultures. In addition to the scientific contents, the course also offers industry related contents like aspects of controlling and scientific communication.

---

**PURIMEX**

Synthesis of high quality DNA/RNA-oligonucleotides specialized on DNA oligos up to 150 bases, RNA oligonucleotides up to 100 bases, complex modified oligos, antisense phosphorothioates and dye labelled probes.
R-Biopharm AG

CEO: Dr. Ralf Dreher
An der neuen Bergstrasse 17
D-64297 Darmstadt
Phone +49 6151 8102-0
Fax +49 6151 8102-20
info@r-biopharm.de
www.r-biopharm.com

R-Biopharm develops products for clinical diagnostics and food and feed analysis. In the field of clinical diagnostics, it concentrates on infectiological stool diagnosis, serological diagnosis of infections and allergy diagnostics. The clinical product portfolio is rounded out by innovative tests for tumor diagnosis and gastroenterology. In the field of food and feed analysis, the product range comprises immunological, enzymatic and microbiological test kits to verify residues, constituents and microbiological contaminations. The test kits allow detection of mycotoxins, antibiotics, hormones, genetically modified organisms, risk materials, allergens (food) and pathogen germs. In 2013, R-Biopharm extended its services to personalized healthcare. In terms of complementary diagnostics, it covers the entire chain of requirements from assay development and laboratory services via validation and registration and manufacturing all the way to commercialization and project management.

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DR. RIETHMÜLLER M/R/S GmbH

CEO: Dr. med. Hilde Riethmüller-Winzen
Mittelweg 27
D-60318 Frankfurt am Main
Phone +49 69 1302 56-0
Fax +49 69 1302 56-29
info@drmrsg.com
www.drmrs.com

DR. RIETHMÜLLER M/R/S GmbH was founded in 2001 and provides straight-forward strategies, know-how and services in the development, registration and marketing of medicinal products and medical devices. Each of the company’s experts in pharmaceutical development, pharmacology, toxicology, and clinical affairs can look back on at least 25 years of successful and skilled expertise in international drug development. The qualified team has achieved numerous registrations (EMEA, MRP, DCP, FDA, Japan) of innovative and generic drugs in the shortest possible time as well as orphan drug designations. The team assists in securing the enduring success of the entire product life cycle.

Clients come from the international pharmaceutical industry, biotechnology and venture capital companies, university clinics and CRO. Experience exists in numerous benign and malignant indications, including pediatric and elderly patients. Compounds comprise NCEs, proteins, antibodies, biosimilars; solid, liquid, semiliquid dosage forms; local (inhalative, intranasal, dermal) oral, i.v., s.c., i.m. administration; medical devices.

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RSC Pharma LTD. & Co. KG

CEO: Dr. Thomas Schmidt
Gleibergring 23
D-35396 Gießen
Phone +49 6413 092-554
Fax +49 6413 092-957
info@rscpharma.com
www.rscpharma.com

RSC Pharma is a service provider engaged in the development of pharmaceutical and cosmetic preparations, membrane technology, pharmaceutical technology and process technology. It cooperates with Gießen University of Applied Sciences with the aim of translating scientific knowledge into marketable products for medium-sized pharmaceutical, cosmetics and food companies.

Its services range from developing highly innovative carrier systems for precise dermal drug targeting through the development of suppositories, liquid medication, hydrophilic nail gels, gelatin capsules and tablets, to consulting in the areas of pharmaceutical technology, GMP and applications for membrane technology.

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Sanofi-Aventis Deutschland GmbH

CEO: Dr. Fabrizio Guidi
Industriepark Höchst, Bld. K 703
D-65926 Frankfurt am Main
Phone +49 69 305 30167
Fax +49 69 305 84418
medinfo.de@sanofi.com
www.sanofi.de

Sanofi, an integrated global healthcare leader, discovers, develops and distributes therapeutic solutions focused on patients’ needs. Sanofi has core strengths in the field of healthcare with seven growth platforms: diabetes solutions, human vaccines, innovative drugs, consumer healthcare, emerging markets, animal health and the new Genzyme. Sanofi is listed in Paris (EURONEXT: SAN) and in New York (NYSE: SNY).

Sanofi-Aventis Deutschland GmbH is the German subsidiary. There are only a few health companies here in Germany that research and develop innovative pharmaceutical products, and Sanofi is one of them. Primary focus is on diabetes research and age-related diseases. The Frankfurt facility is globally networked with the Group’s other research locations and is constantly sharing results and ideas with universities, research institutions and biotech companies. R&D in Frankfurt is seamlessly followed by all other steps in the pharmaceutical value chain: from active agent production to drug manufacturing to shipping and handling. This also makes Frankfurt the most important integrated production and manufacturing site within the Sanofi Group. The facility also develops and produces its own pens, which are used by patients to administer insulin comfortably and reliably.

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<td>Bioinformatics</td>
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ScheBo Biotech AG

CEO: Dr. René M. Kröger, Sonja Scheefe

Jeffrey Scheefe

ScheBo Biotech AG is an independent company specializing in the development, production and distribution of innovative diagnostic products. Its target groups are clinical and laboratory physicians and physicians in private practice using POC rapid tests. ScheBo® Biotech develops and produces ELISA test kits for the diagnosis of acute pancreatitis and exocrine pancreatic insufficiency, tumor diagnosis and monitoring as well as ELISA test kits and POC rapid tests for early detection and screening for colorectal cancer.

In addition, ScheBo® Biotech AG holds many international patents in the above mentioned fields and has a solid intellectual property position. The company also has academic alliances with several universities and university hospitals in Europe, the USA, Japan, Israel and Canada.

SGS INSTITUT FRESENIUS GmbH

CEO: Stefan Steinhardt

SGS INSTITUT FRESENIUS is part of the SGS Group, the world’s leading inspection, verification, testing and certification company. With our range of chemical, biological and physical analyses and the associated consulting services, SGS INSTITUT FRESENIUS – as a laboratory service provider – serves traditional companies as well as innovative high-tech customers in the fields of life science, food / consumer products, agricultural and environmental services.

Our competence can be seen in our more than 180 certifications, accreditations and approvals and in our 155 years of experience in the field of analysis. This outstanding knowledge justifies our excellent reputation – in Germany and internationally – among manufacturers, the retail trade, service providers and end consumers.

Our work for these customers goes well beyond simply providing analytical laboratory services. SGS INSTITUT FRESENIUS – with its analytical and advisory quality assurance competence – sees itself as a problem solver and advisor in the areas of product development, manufacture and processing.
Siemens Healthcare Diagnostics GmbH

Siemens Healthcare Diagnostics GmbH is the headquarters of Siemens’ global Hemostasis, Hematology & Specialty business unit with approximately 3,000 employees worldwide. As one of the largest providers in the area of in vitro diagnostics, the company is meeting the needs of laboratories of all sizes by offering its customers innovative products and solutions for the entire range of patient care from a single source – from prevention and early detection to diagnosis, and on to treatment and aftercare.

With its portfolio of performance-driven systems, reliable reagents and facilitating IT tools, this Siemens business unit provides healthcare solutions for a state-of-the-art patient management in the fields of hematology, hemostasis, infectious diseases, plasma proteins and drug monitoring. All of this in conjunction with strong customer care processes. That is how the company innovates to advance human health.

Business activities
- Research
- Development
- Production
- Marketing
- Sales
- Services
  - Analytics
  - IT, Software
  - Lab equipment
  - CRO
  - Trainings
  - Consulting
- Further

Applications
- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
- Pharmaceuticals

Main field of biotechnology
- Red Biotech
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- White Biotech
- Nonspecific services
- Bioinformatics

SocraTec R&D GmbH

We are an independent service provider for the pharmaceutical and biotech industry with the following core competences:

- Design and conduct of pharmacokinetic and pharmacodynamic clinical trials, bioequivalence/biosimilar trials and drug-drug-interaction studies in healthy subjects and patient populations with special focus on oncology (phase I and II) and ophthalmology
- Clinical trials phase-III and -IV as well as non-interventional and post-authorisation safety studies
- Biopharmaceutical characterization of drug substances and dosage forms
- Expert statements and scientific consultation as well as advice in strategic drug development

In collaboration with affiliate companies and external partners, we also offer regulatory affairs services and develop concepts for novel dosage forms and their registration, e.g. preparations with optimized therapeutic properties.

Business activities
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Main field of biotechnology
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STADApharm GmbH specializes in high-quality prescription generics and is a discount agreement partner of numerous statutory health insurance organizations. With the area of diagnostics, the product portfolio also includes the field of DNA-based individualized drug therapy. In order to support the therapies and ensure the best possible healthcare, a wide range of services are offered for doctors, pharmacists and patients.

STADApharm is a wholly owned subsidiary of STADA Arzneimittel AG. In the financial year 2013, STADA Arzneimittel AG achieved group sales of € 2,014.4 million, an adjusted EBITDA of € 415.2 million and adjusted net income of € 160.6 million. As of 31 December 2013, the STADA Group had 9,825 employees worldwide.

STOE develops, manufactures and sells scientific instruments for the non-destructive analysis of substances. Based on the X-ray diffraction (XRD) method, these systems characterize single crystals and powder samples and give answers to which substances a particular powder or crystal contains or at which positions atoms in solid bodies are exactly located.

STOE, originally founded in 1887, to manufacture equipment for the optical analysis of crystals, has been a pioneer in powder and single crystal X-ray diffraction since the 1960’s, e.g. STOE invented and patented the transmission geometry technique for Powder XRD as well as, for single crystals, produced the first pixel detector XRD system with an open Eulerian cradle.

STOE is based in Darmstadt, Germany, and keeps the R&D, software programming, electrical and mechanical engineering and production all in house, allowing STOE to provide customers with standard as well as individual solutions. Whenever it comes to quality, STOE accepts no compromises. This high-level of detail is what sets STOE apart. STOE is the partner in X-Ray Diffraction to crystallographers, chemists, material scientists and pharmacists all over the world.
SunChrom GmbH

CEO: Dr. Guenes Barka
Industriestrasse 27
D-61381 Friedrichsdorf
Phone +49 6172 953-350
Fax +49 6172 953-399
info@sunchrom.de
www.sunchrom.de

SunChrom was founded in 1988 with the primary objective to market and service products of Spark Holland autosampler and column heaters as an exclusive distributor in Germany. The company was renamed in 1993 in SunChrom GmbH which is still the sales and service for the products of Spark Holland.

Since 1995 a complete, modular, analytical HPLC system can be offered by the SunChrom GmbH. A new generation HPLC line will be introduced in the second half of 2014.

Current Focus:
- MALDI Spotter SunCollect
- Micro and Analytical HPLC systems
- Sample Preparation

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SYHA CONSULT

CEO: Dr. Klaus Syha
Im Rosengärtenchen 11
D-61440 Oberursel
Phone +49 6171 251-60
syhaconsult@ymail.com
www.syhaconsult.de

- Integrated Value Chain: Business Processes – Drug Development Programs
- Competitive Advantage for Clients
- Business Processes: Strategy transformed into Programs
- Preclinical Drug Development: Programs transformed into Interventions
- SYHA CONSULT supports the pharmaceutical industry in non-clinical drug development programs of projects since 1993.
- Feasibility — Business Processes: Aligning Structures and Systems
- Proof-of-Biology — Proof-of-Concept: Improving efficacy and safety
- First in Human – Translational Medicine
- Proof-of-Value — Preparation of Patents
- Over 15 years experience in business processes and drug development for complex medical, neurological and psychiatric diseases
- Added Value — Molecular Strategy - Integrated Value Chain
- Systems – Points of Intervention — Medicine – Complex Diseases
- Neuroscience – Functional View — Strategic R&D – R&D Strategies

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Pharmaceuticals

Main field of biotechnology
Red Biotech
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White Biotech
Nonspecific services
Bioinformatics
SynapCon Ltd.

POB 13 02 50
D-65090 Wiesbaden
Phone  +49 611 7039 7054
Fax       +49 611 7102 9495
info@synapcon.com
www.synapcon.com

SynapCon Ltd. is offering international clinical project management and clinical monitoring combined with IT services, consultancy and compliance services for SME’s of other branches as well. Latter includes analysis, implementation and monitoring of compliance structures, quality control and risk management.

We have comprehensive expertise and experience with different orphan indications and pediatrics population in our clinical services.

Systec GmbH Labor-Systemtechnik GmbH

CEO: Helmut Winkelmann

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D-35440 Linden
Phone  +49 6403 67070-0
Fax       +49 6403 67070-222
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www.systec-lab.com

Systec GmbH Labor-Systemtechnik was founded in 1994. It develops, manufactures and markets, laboratory autoclaves (steam sterilizers) and media preparators throughout the world. All of our managers have over twenty years of experience in this sector.

We develop and manufacture, certified according to ISO 9001, a wide range of products for the modern laboratory, science and research as well as biotechnology, pharmacy, quality control and production. We supply university laboratories, Max-Planck Institutes, federal and state research institutions and other major research institutes, the pharmaceutical and food industries, public health laboratories and private laboratories as well as research institutes and companies within the biotechnology, gene technology and diagnostics sectors.
t2cure GmbH

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www.t2cure.com

Targos Molecular Pathology GmbH

CEO: Dr. Thomas Henkel, Prof. Dr. Josef Rüschoff
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Fax +49 561 50045-353
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www.targos-gmbh.de

Targos has established itself as premier partner of the international pharmaceutical and diagnostic industry for the clinical validation and approval of novel targeted therapies and companion diagnostics.

The services include clinical biomarker research and development as well as training and consulting for international healthcare professionals. With a large international network and strategic partners in China and the US, Targos is able to offer its services worldwide.

t2cure is a biopharmaceutical company dedicated to the development of novel progenitor cell-based regenerative therapeutics to provide new treatment options to patients suffering from cardiac or peripheral vascular diseases.

t2cure is active in two therapeutic areas: cardiac diseases with focus on myocardial infarction and chronic heart disease; and peripheral arterial diseases with focus on thromboangiitis obliterans. More than 800 patients were treated with the progenitor cell-based therapy to date. The therapy is available to patients in Germany at specialized clinical centers.
tec-lab GmbH

CEO: Sven Benedikt
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Phone +49 6126 50949-50
Fax +49 6126 50949-60
info@tec-lab.de
www.tec-lab.de

CRYOTECHNOLOGY – EXPERIENCE SINCE 1993

For over 20 years, we have been advising our customers and implementing complex solutions. We have installed countless cryogenic systems in this period, whether as a complete or partial solution. Our technical know-how has contributed to our good reputation. We avoid problems before they even occur.

We are the direct distributor of Taylor-Wharton.

TIGO GmbH

CEO: Dr. med. Hans-Günther Grigoleit
Joh.-Seb.-Bach-Strasse 27
D-65193 Wiesbaden
Phone +49 611 520 509
Fax +49 611 599 0443
info@tigo-gamma.eu
www.tigo-gamma.eu

TIGO GmbH is a biotech startup company with a unique and patented technology platform in the field of recombinant receptor antagonists and other modulators to the cytokine interferon gamma and other modulators to interferon gamma, e.g. interferon beta.

TIGO’s unique approach is to develop such antagonists and modulators to counteract the negative effects of interferon gamma in diseases such as alopecia areata (patchy hair loss) and transplant vasculopathy.

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<th>Business activities</th>
<th>Applications</th>
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Main field of biotechnology

TIGO GmbH

CEO: Dr. med. Hans-Günther Grigoleit
Joh.-Seb.-Bach-Strasse 27
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Phone +49 611 520 509
Fax +49 611 599 0443
info@tigo-gamma.eu
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Main field of biotechnology
Since 1985, Trifolio-M GmbH has been committed in the R&D of highly pure biomaterials. Located in the center of Hessen in Lahnau, the company has a worldwide network of marketing partners and supplies plant protection products, biocides, health promotion products and pheromones.

Especially neem extracts play a decisive role, for example in NeemAzal-T/S, a leading product for ecological plant protection.

Trinova Biochem offers products for genetic toxicology (S9 products, AMES Test, Umu Test), assays for in vitro stem cell testing and cytogenetic cell culture media.
Veyx-Pharma GmbH

CEO: Armin Hess
Soehreweg 6
D-34639 Schwarzenborn
Phone +49 5686 99860
Fax +49 5686 1489
zentrale@web.de
www.veyx.de

Veyx-Pharma GmbH is a medium-sized animal health company. Its activities center round prophylactic treatment and maintaining the performance of farm animals.

The company’s product range is focused on reproduction control and birth-influencing preparations for farm animals and pets, proteolytic enzymes and microemulsions of vital nutrients as a physiological support to meet the wide-ranging needs of farm animals and pets.

VIROSCREEN & VIROFEM diagnostics GmbH

CEO: Erwin Buchner
Borsigstrasse 7a
D-65205 Wiesbaden
Phone +49 6122 5889-733
Fax +49 6122 5889-736
info@virofem.de
www.virofem.de

VIROSCREEN & VIROFEM diagnostics GmbH is the producer and owner of the only test with a prognostic marker for cervical cancer, VIRO-safe.

### Business activities
- Research
- Development
- Production
- Marketing
- Sales
- Services
  - Analytics
  - IT, Software
  - Lab equipment
  - CRO
  - Trainings
  - Consulting
  - Further

### Applications
- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Protection
- Food/Feed
- Pharmaceuticals

**Main field of biotechnology**
- Red Biotech
- Green Biotech
- White Biotech
- Nonspecific services
- Bioinformatics

### Business activities
- Research
- Development
- Production
- Marketing
- Sales
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### Applications
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- Environmental Protection
- Food/Feed
- Pharmaceuticals

**Main field of biotechnology**
- Red Biotech
- Green Biotech
- White Biotech
- Nonspecific services
- Bioinformatics
Weiss Klimatechnik GmbH

**CEOs:** Peter R. Manolopoulos, Edwin Zijlstra

Greizer Strasse 41-49  
D-35447 Reiskirchen-Lindenstruth  
Phone +49 6408 84-0  
Fax +49 6408 84-8710  
info@wkt.com  
www.wkt.com

Weiss Klimatechnik specializes in innovative, high-quality ventilation technology. Its air-conditioning systems are used wherever an optimal climate is required for production processes. The company provides clean room systems for all classes of clean room, for example for the pharmaceutical, microelectronics, biotechnology, genetic engineering, medical and laboratory sectors.

ZEDIRA GmbH

**CEOs:** Dr. Ralf Pasternack, Dr. Martin Hils

Roesslerstrasse 83  
D-64293 Darmstadt  
Phone +49 6151 325-100  
Fax +49 6151 325-119  
contact@zedira.com  
www.zedira.com

Zedira is a clinical stage biopharmaceutical company. It specializes in bio-medical problems involving the transglutaminase enzyme family. Transglutaminases are core elements in various human diseases, for example celiac disease (gluten intolerance). Zedira produces and markets special reagents for research and development and diagnostic products. In addition, it is engaged in drug discovery. This includes research into small molecules that selectively block dysregulated transglutaminases.

Zedira’s second area of indication is the prevention of thrombosis (anticoagulation). Inhibiting blood plasma transglutaminase (factor XIII) enables selective intervention in the coagulation process. The company receives financial support from the German Ministry for Education and Research for its research work on therapies.
Zyagnum AG, listed as TAVARLIN AG until 2015, develops and sells innovative blood tests for the detection of tumor diseases. In 2007, Dr. Johannes Coy and Ralf Schierl founded the company to improve diagnosis opportunities and therapy options for cancer diseases. On the basis of Dr. Coy’s experiences (having discovered the genes TKTL1 and DNaseX/Apo10 in 1995 at the DKFZ), the company developed the EDIM blood test. With this immunological diagnostic procedure, tumors can be detected and characterized much earlier, even those for which up till now, only inaccurate tests were available. Tumor and biomarkers TKTL1 and DNaseX/Apo10 are responsible for fundamental biophysical mechanisms in mammalian cells. These mechanisms also play a key role in tumor cells, it prevents the death and enable invasive growth and the formation of metastases. EDIM-Apo10/TKTL-1 blood tests are exclusively offered by biovis Laboratory in Limburg which is part of the Sonic Group.

### Business activities
- Research Development
- Production
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  - Lab equipment
  - CRO
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### Applications
- Agriculture
- Chemistry
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- **Food/Feed**
- Pharmaceuticals

**Main field of biotechnology**
- **Red Biotech**
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CLASSIFIED REGISTER
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<th>Company Name</th>
<th>Research</th>
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**Bussiness Activities**

- Research
- Development
- Production
- Marketing
- Sales
- Services
- Further
- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Production
- Food / Feed
- Medicine / Pharmaceuticals

**Applications**

- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Production
- Food / Feed
- Medicine / Pharmaceuticals
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<td>Provadis School of International Management &amp; Technology AG</td>
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<td>Bussiness Activities</td>
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**Bussiness Activities**

- Research
- Development
- Production
- Marketing
- Sales
- Services
- Further
- Agriculture
- Chemistry
- Diagnostics
- Engineering
- Environmental Production
- Food / Feed
- Medicine / Pharmaceuticals

**Applications**
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Phone +49 6131 62305-81
Fax +49 6131 62305-90
mail@ci-3.de
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Fax +49 69 305-16277
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www.rhein-main-cluster.de

Höchst Industrial Park and the Rhine-Main region have initiated a cluster of chemical and pharmaceutical companies, which are embedded in a network that has evolved over the years.

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Science4Life is an initiative to support founders in the field of Life Sciences and Chemistry. This initiative is supported by the State of Hessen and by the global healthcare leader Sanofi.
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c/o TransMIT GmbH
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Timm provides support in the cooperation between medical research institutions and industry and contributes to R&D in the fields of medical technology, pharmaceuticals and health care in central Hessen.

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The aim of ZAFES, the Center for Drug Research, Development and Safety, is to combine the best elements of the three worlds “University”, “Pharmaceutical Industry” and “Biotechnology” to come to innovative medical solutions much faster.
Competence Atlas Biotechnology
The Spectrum of Biotechnology Companies in Hessen

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