



Be inspired ...



... by the vivid Life Sciences Cluster

Development Innovation
 Service Manufacturing
 Science Supplier Research Medical
 Technology Biotechnology Health
 Knowledge
 Engineering Pharma Excellence

Welcome to the vivid Aachen region

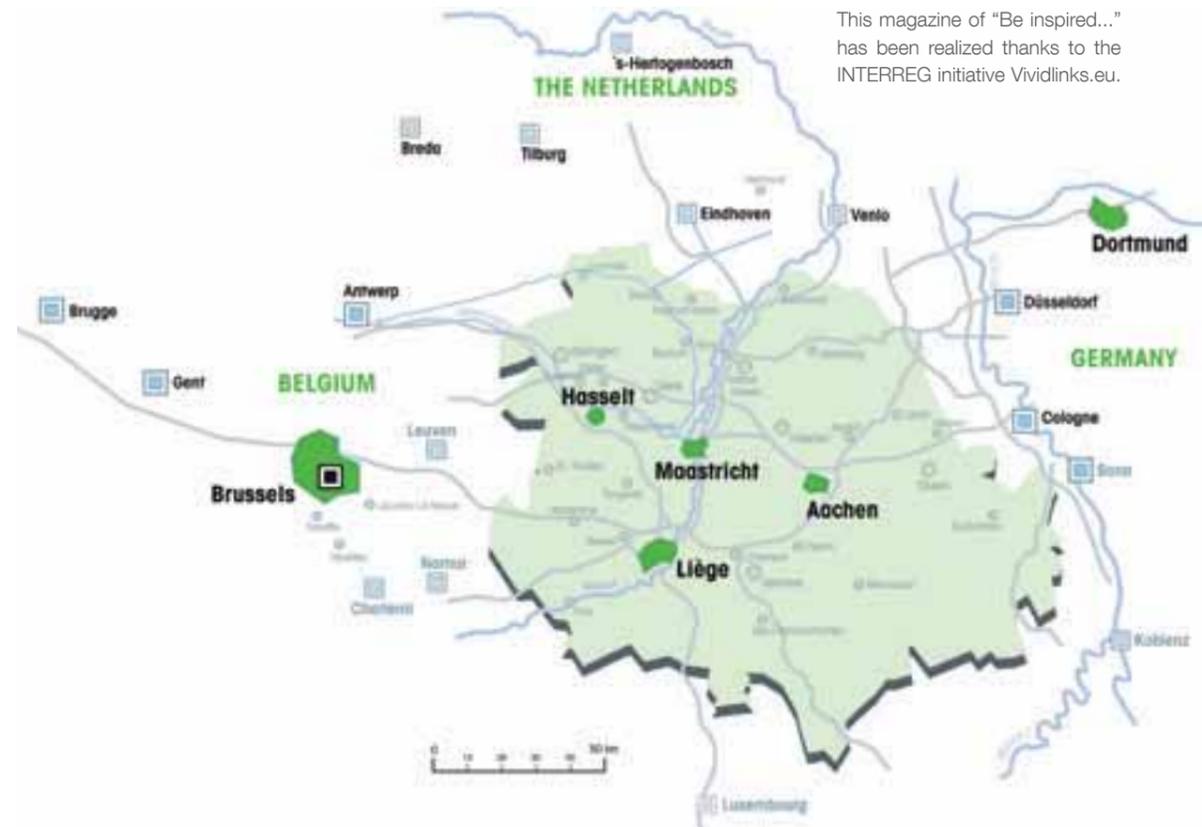
The Aachen region is the westernmost in Germany and lies in the border area of Belgium, The Netherlands and Germany. Positioned in the heart of Europe the Technology Region Aachen offers a unique advantage: it is the gateway to Germany, the Benelux countries and France – all in one. It is amongst the most innovative regions in Germany, not least thanks to the renowned RWTH Aachen University, Aachen University of Applied Sciences or research institutions such as the Jülich Research center and four Fraunhofer Institutes.

The Aachen region represents the German part of the Euregio Meuse-Rhine (EMR). Economic and technological cooperation on innovative and future-oriented top technologies characterize this tri-national Euregio. Life Sciences represent one of the fastest growing future markets and are one of the top technologies in the EMR. Joint efforts of the Universities of Hasselt, Maastricht, Liège and Aachen, regional development agencies and the Life Sciences Clusters in the EMR led to a sustainable support of the technology transfer and the foundation of companies in the field of Life Sciences in the EMR.

Thirty technology centres, 130 privately and publicly financed research centres, and about 300 companies active on the field of medical technology or biotechnology underline the relevance of Life Sciences for our region.

Euregio Meuse-Rhine:
The Aachen Region is the German part of the Euregio Meuse-Rhine. About 4 million inhabitants live around the city-corridor of Aachen-Maastricht-Hasselt and Liège. This cross-border region brings together three countries and languages as well as five different cultures.

This magazine of "Be inspired..." has been realized thanks to the INTERREG initiative Vividlinks.eu.



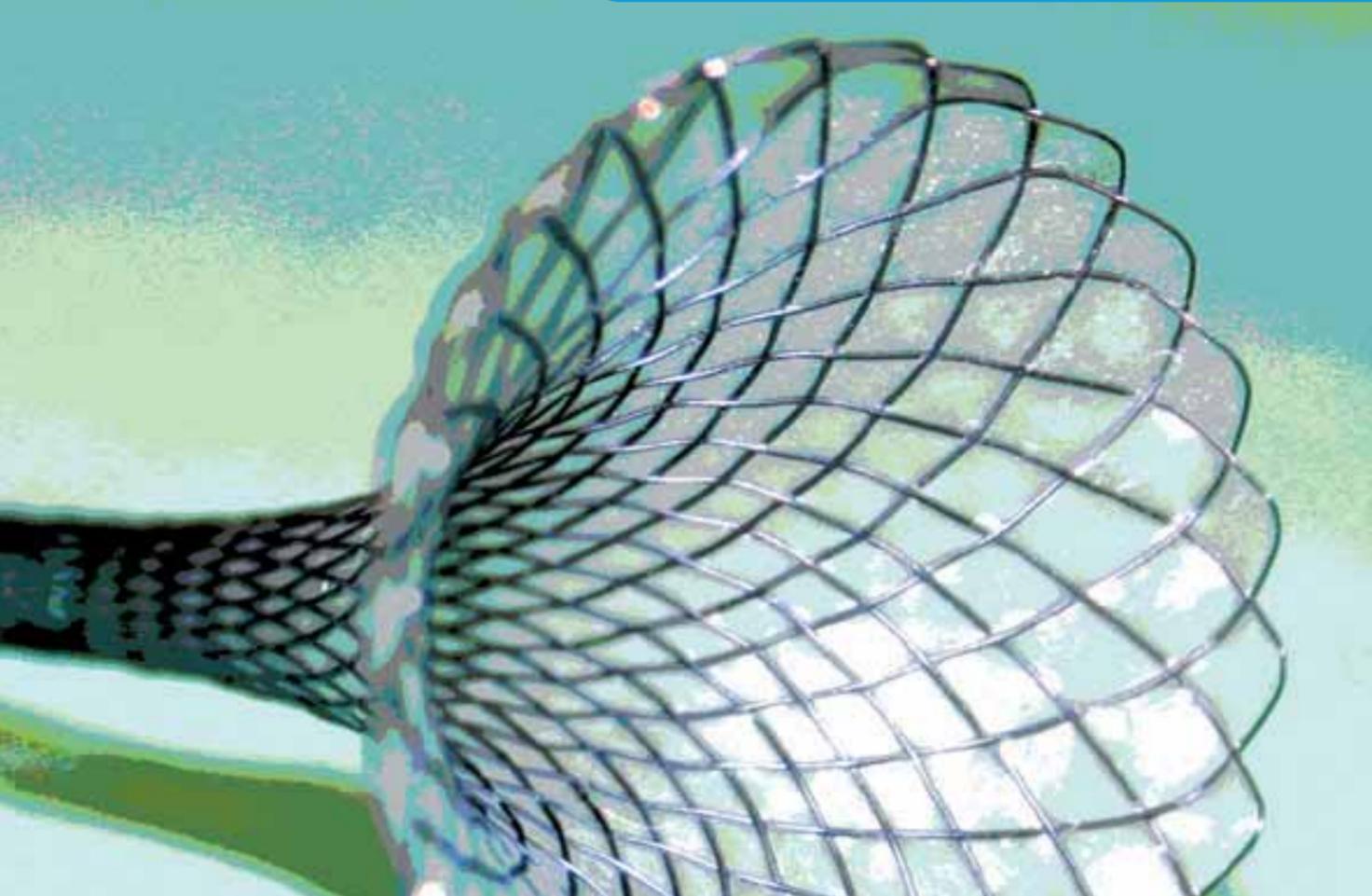
Get in touch with the vivid Life Sciences Cluster

Dear reader,
With this second edition of the magazine "Be inspired..." we would like to demonstrate the strength and the diversity of Life Sciences companies and institutions in the Aachen region. LifeTecAachen-Jülich, AKM and AGIT are the local contact partners for medical technology and biotechnology in our region. With our close collaboration and strong national and international networks we strengthen and promote the Life Sciences in the Aachen region. Be inspired by this magazine and get in touch with the Life Sciences cluster in the Aachen region!

Yours

From left to right:
Dr. Carin Jansen, CEO, LifeTecAachen-Jülich e.V.
Dr. Ute Schelhaas, Regional Development and Euregional Development, AGIT mbH
Dr. Detlev Langmann, CEO, AKM Innovationsmanagement GmbH





Photography: P. Winandy

Aachen Center of Competence for Medical Technology

Connecting Medical Technology Competence

AKM is a recognized partner and trusted service provider in science, business and politics for medical technology located in the heart of the new RWTH Aachen University campus cluster for biomedical engineering. In 2011, AKM has formed the consortium of partners for the state cluster *Medical Research and Technology (MedizinTechnik.NRW)*.

The success formula of AKM is composed of two ingredients: Performance in innovation and execution. Correspondingly, the Aachen Center of Competence for Medical Technology - AKM e.V. - has been set up as non-profit association of partners from research, hospitals and industry commissioned to nurture and to promote interdisciplinary innovation and research - while its agency, the AKM INNOVATION MANAGEMENT GmbH, drives emerging ideas and ambitious projects along the medical value chain into practice.

In our business we focus upon:

- Project Management - from spadework to large-scale project completion
- Medtec Consulting - from market analyses to technology transfer
- Event Management - from tailor-made workshops to congresses, e.g. AixForMed.de
- Business Support Services including international matchmaking & marketing

In a nutshell: *Meeting your ambition with customer needs towards market success - this is AKM.*



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AGIT mbH

Linking Life Sciences

AGIT is the regional development agency in the Aachen region. Since 1983 it has developed from being the operator of the first technology center in Western Germany offering business support for technology-oriented start-ups into an enterprise which today helps regional, innovative firms to grow, advises and assists enterprises looking for location, helps develop and accompanies development procedures, realises labour policy projects and markets the location.

An important element in AGIT's support for the regional cluster development is its assistance for the regional clusters and their member companies and institutions in the development and implementation of technology and innovation-orientated business-promotion projects within the scope of the NRW-EU Objective 2 (Ziel 2-Programm) and the INTERREG program.

AGIT is coordinator in several regional Life Sciences initiatives: In order to strengthen regional enterprises the "Top-Technology-Cluster"-initiative (TTC) focuses on SMEs, to help businesses find the right partners and to set-up sustainable co-operation across the borders in the Euregio Meuse-Rhine area.



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Aix Scientifics® CRO

People are so different

Did you ever try to acquire meaningful data for the certification of a new medical device or a new pharmaceutical? Then you are aware of the long and difficult way to go. Preparing a clinical study is a highly complex issue as numerous aspects have to be taken into account. Mostly, the creation of a systematic study design already poses a great challenge since applicable guidelines, regulations and standards have to be obeyed. Besides these legal affairs one has also to deal with statistical and logistical planning, applications and plenty of other things. It is literally a never ending story - this is the bad news. The good news is that **Aix Scientifics®** could support and guide you during the entire procedure. **Aix Scientifics®** is an independent Contract Research Organisation (CRO) founded in 1996 by the human biologist Dr. Eike G. Fischer. Before the foundation Mr. Fischer worked as a scientist in various medical departments of the Medical Universities (rheumatology, pharmacology, pathology, microbiology, and immunology of Hanover, Ulm, and Aachen).

Aix Scientifics® attaches great importance to a close cooperation with its clients....



Aix Scientifics® CRO
Dr. Eike G. Fischer
www.Aix-Scientifics.com

Analytical Services Dr. Ralph Nussbaum

The Analytical Services Partner for the Pharmaceutical Industry

Analytical Services was founded in 2003 as a service provider for the pharmaceutical industry. Analytical Services provides analytical support, reference standards and technical writing for the pharmaceutical industry. Analytical Services is specialized in impurity characterization, method development, method validation and CMC-documentation. Our analytical experts are supported by an efficient Project Management.

Our services:

- Structure elucidation with state-of-the-art analytical techniques
- Preparative isolation, synthesis and characterisation of by- and degradation products
- Analytical methods for highly potent substances and narcotics
- Performance of release analyses in accordance with EP and USP
- QP release
- Method development, method transfer and method validation
- Qualification, storage and shipping of reference standards with a GMP certificate
- Compilation of CTDs, IMPDs, INDs
- Efficient project management
- Expertise for genotoxic impurities, leachables and extractables
- GMP-certified laboratory



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BMP - Labor für medizinische Materialprüfung GmbH

Know how by safety Protecting patients and manufactures is our expertise

An important aspect of the development of medical devices is their biocompatibility: Are the used materials and especially the final product biocompatible? How do the manufacturing, cleaning process and sterilization influence the biocompatibility of the product?

For achieving the CE-mark, biological safety evidences for biocompatibility are required. These tests are performed by the BMP Labor für medizinische Materialprüfung GmbH in Aachen, which is one of only a few accredited laboratories based on the international guideline ISO 17025.

BMP offers, based on DIN EN ISO 10993, tests for compatibility of blood, cells and tissue, for geno- and reproductive toxicity, for acute systemic and subchronic toxicity, for cancerogenity, irritation and sensitization as well as tests for local effects after implantation.

The manufacturers get more service offered by BMP: checking the used materials by screening at an early stage during development can avoid expensive false developments. Additionally, BMP performs batch tests for medical devices of notable manufacturers: even small changes in the manufacturing and cleaning process can cause toxic effects.

The development of the test strategy for each specific case as well as in-house-training, judgement of test results and risk analysis are also in the range of services of BMP.



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BYTEC Medizintechnik GmbH & RUCK TMED

Design and Development for Efficiency

BYTEC Medizintechnik GmbH develops and manufactures medical devices – entire systems serving the demanding areas of surgery, therapy and diagnostics. Founded on the security of proven technologies and the newest findings, we are able to apply the requirements of medical practice and the expectations of the market. We make complex products simple!

As an example we developed and will manufacture the eye surgery system 'Qube' for RUCK TMED.

RUCK TMED is a privately owned and operated company specialized in ophthalmic medical systems and equipment. Founded in 1981, RUCK TMED established itself as a manufacturer, distributor and supplier of high-quality ophthalmic products, dedicated to offer top notch knowledge and service to eye care professionals. The product range includes diagnostic devices and laser systems, as well as intraocular lenses, implants and phaco and vitrectomy surgery systems.

Available early/mid 2012, 'Qube' is an efficient, reliable and user friendly system for anterior chamber surgery. Its state of the art design and User Interface are perfected for the use in clinical environments.



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Michael Ruck and Dipl.-Ing. Axel von Wallfeld



CARPUS+PARTNER AG

Buildings to create knowledge

Carpus+Partner AG, with its company alliance, is an internationally active consulting and planning company with a total of 200 employees at four locations. As consultants, experts and generalists, we solve all of the tasks that arise during the life cycle of your property. We partner with the life science and high-tech industries. Our customers include medium-sized and global pharmaceutical and biotech companies, large hospitals, and companies from the „new materials“ sector.

Our employees are the heart of our company. We currently have 200 employees at four locations in Germany. Over the years, we have developed a corporate culture based on cooperation so that all of these people can work together as a team on a day-to-day basis. We are convinced that employees can consistently produce top results only if they enjoy their work and can work independently. Therefore, we focus on providing individual employee support through internal and external professional development. Social skills, creativity and team-building are just as important as developing specialized qualifications.



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Celonic GmbH

CMO with service excellence for glycosylated proteins and antibodies

Celonic is a contract manufacturing organization offering a broad portfolio from provision of protein and antibody material for lead optimization and early preclinical investigations via pre-clinical and clinical analytic service and GMP cell line development to large scale GMP manufacturing of monoclonal antibodies and recombinant proteins of up to 1000 L culture volume, thus Celonic starts service for biotech customers from very early state of biological drug candidate identification and selection to market supply. Celonic has pleased customers in the past years with fast projects, fair contracting and low pricing. We have maintained our customers from early proteins supply and cell line development to clinical phase IIIb production, thus customers trust us over a period of several years.



making biopharmaceuticals tangible

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We know bioprocessing

DASGIP AG

Benchtop Bioreactor Solutions for Optimal Bioprocessing

DASGIP has been an industry-leading supplier of benchtop bioreactor solutions for the biotech, pharma and chemical industries as well as academia and research institutions since 1991. Our Parallel Bioreactor Systems for the cultivation of microbial, plant, animal and human cells utilize industry standard benchtop glass and single-use bioreactors. DASGIP's best-in-class configurable control systems and state-of-the-art bioprocess analyzers deliver unparalleled functionality coupled with user-friendly design for optimal bioprocessing. Our proven solutions for interconnectivity to 3rd party bioprocess analyzers, supervisory control systems and DoE tools, combined with our best-in-class control systems, enable migration strategies for optimization of legacy benchtop bioreactor equipment. The outstanding DASGIP bioprocess solutions support QbD-driven process development. A team of more than 70 in-house experts contribute to the ongoing success of the company with a compound 5 years annual growth rate of about 25%. Excellent products and outstanding global service are our commitment to support the success of each customer. DASGIP is headquartered in Juelich (Germany) and has operations throughout Europe, North America and Asia.



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DIA-Nielsen GmbH & Co. KG

DIA-Nielsen – The Intelligent Alternative

DIA-Nielsen was founded in 1955 as manufacturer of writing accessories for measurement technology. Due to our membership in the Schleicher & Schuell group, we have long term experience in the Life Science and Filtration sector. Since 2004 we have developed our own product range of lab filters.

We offer..

- ...a large product range of syringe filters with more than 300 different types, 15mm-50mm Ø, 10 different types of membrane, pore sizes from 0.1µm up to 200µm
- ...core competence in the membrane processing technology (plastic parts with integrated membranes)
- ...a complete solution for your new, innovative plastic parts and support you from the idea to the finish product. To realize that we have the following departments in house:
 - Development & construction (incl. rapid prototyping)
 - Tool shop
 - Plastic injection moulding
 - Small part assembly (incl. clean room) with individual print & packaging



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Dr. BABOR GmbH & Co. KG

BABOR Cosmetics – Beauty Intelligence

In 1956 Dr. Michael Babor made beauty-history as he developed the HY OIL, a cleansing product that cleansed the skin in an unprecedented, natural and effective way, laying the foundation for the company BABOR Cosmetics. Today, BABOR is one of the leading brands in professional cosmetics. The company's partners are cosmetic institutes as well as exclusive Hotel Spas. To this day, BABOR is a family-owned company. All products are exclusively manufactured at the company's premises in Aachen, where 255 employees are dedicated to creating beauty. Thanks to its Research and Development department, a central pillar of the company, BABOR takes a leading position on the international market. In-house laboratories and long-term co-operations with renowned universities like the Rheinisch-Westfälische Technische Hochschule Aachen as well as other scientific institutions guarantee innovative skincare of the highest quality and effectiveness. Together with its long-standing expertise in skincare treatments BABOR guarantees sustained beauty and well-being.



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GfPS mbH

The reliable partner at your side

The Gesellschaft für Produktionshygiene und Sterilitätssicherung mbH (GfPS), founded in 1992, is a privately-run, accredited testing laboratory. With a team of highly qualified and motivated specialist personnel, we perform a wide range of analyses and can assume responsibility for the supervision of the complete production-hygiene system when this is required by the client.

We support our clients during the continual improvement of their products and production processes. Irrespective of the challenge you set us: we can demonstrate a realistic and financially realisable solution.

The microbiological tests are performed in our modern, custom-built facility; chemical and physical tests are conducted through collaboration with competent partner laboratories.

With a wide range of laboratory services, GfPS can be effortlessly integrated into all your research and development projects. Aside from the normatively regulated parameters, we can develop individual solution concepts from your individual requirements. In addition to laboratory analysis and measurement technology, our areas of expertise include competent advice and guidance in all the areas relevant to hygiene.



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GRUHE engineering GmbH

We get your ideas going ...

The team of GRUHE engineering GmbH has been working for more than 10 years in the field of medical technology. The company is certified according to DIN EN ISO 13485 and offers high-level engineering services to develop medical devices and production equipment needed. This service includes mechanical, electrical and software engineering. It is the objective of the team to provide fast and reliable support to bring a medical product from the idea to market.

Product development:

- Production optimized 3D construction (including injection moulding)
- Electronic circuit design, Software development

Process development:

- Planning, installation and operation setup of production equipment
- Process FMEA

Consulting:

- Project management
- Transfer of technology

Documentation:

- Product technical file (CE mark)
- Documentation of methods and processes (verification, validation)

Product support:

- Maintenance and service



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Grünenthal

About Grünenthal

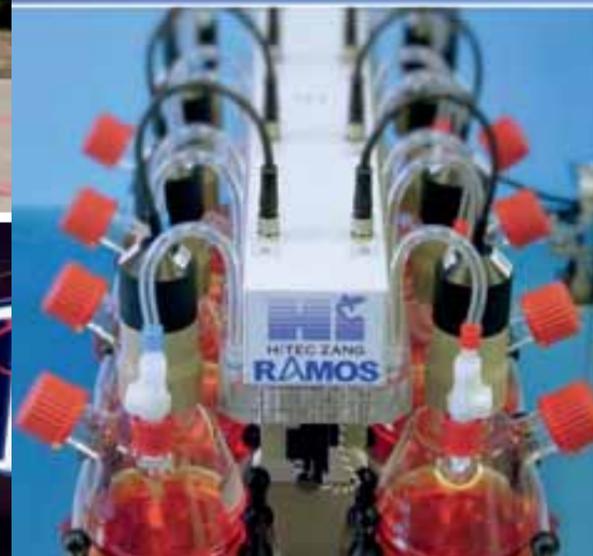
The Grünenthal Group is an independent, family-owned international research based pharmaceutical company headquartered in Aachen, Germany. Building on its unique position in pain, its objective is to become the most patient-centric company to be a leader in therapy innovation. Altogether, the Grünenthal Group has affiliates in 36 countries worldwide. Grünenthal products are sold in more than 100 countries and approx. 4,900 employees are working for the Grünenthal Group globally. In 2010, Grünenthal reached revenues of about 910 Mio €. More information: www.grunenthal.com.



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Photographies: P. Winandy



Health Region Aachen

Cross Border Health Economy

The Aachen Health Region is one of the leading locations in North Rhine-Westphalia's health economy sector. With a large number of partners from the scientific community and the commercial sector – including in cooperation with Belgium and the Netherlands – the region has special strengths for future-oriented development. Especially the fields of medical technology, patient care and nursing illustrate the strengths of the Aachen Region through a large number of successful interdisciplinary projects and the innovative work of companies and research institutes. Building on these strengths, it is the Region's long-term objective to link all the actors in the health sector with each other and to strategically combine common health-care management activities.

The Aachen Health Region supports the following five main topics:

1. Medical Technology / Life Sciences;
2. Second Health Market / Health Tourism;
3. Employment and Education;
4. Patient Care;
5. Cross Border Co-operation.

The regional development agency AGIT mbH, the Aachen Regional Agency and REGIO Aachen e.V. share coordination activities in these five topics. The initiators of the Aachen Health Region are supported by a steering committee. The members of this committee represent all relevant aspects of health economy in the Aachen Region.



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HiTec Zang GmbH

Excellence in Lab Scale Technology

HiTec Zang presents itself to its customers as a One-Stop-Shop with over 1,000 products used for R&D in Lab-Scale Technology. The product range includes cultivation systems ranging from a few micro liters up to 100 L including robots, auto samplers, automation systems, PAT equipment, accessories as well as complete facilities.

The internationally acting company releases annually new products which are mainly used in chemical and life science industries for process development and optimization, scale-up, quality control, for training of students and laboratory assistants.

An interdisciplinary team of engineers and scientists develops, besides standard products, customized solutions.

Within the past 25 years HiTec Zang has played a major role in establishing automation systems in R&D for chemical process technology. The cutting edge LabManager® process control system has become the standard for laboratory automation in the chemical and pharmaceutical industries. The company's aim is to transfer this standard to the biotechnological industry by technology platforms like the unique RAMOS® Respiration Activity Monitoring System and the highly instrumented and automatized OmniFerm® parallel fermentation system.



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innovating medical technology in.nrw

Patient Customized Engineering for Smart Cardiovascular Therapy

Personalized Medical Technology stands for the development of individual solutions and therapies for a specific disease pattern of a patient. Forty partners of the Aachen R&D association "innovating medical technology in.nrw" investigate and develop a new generation of biomedical devices and systems to offer patient customized medical solutions.

With the focus on cardiovascular diseases, the consortium addresses a particularly relevant disease area, which still represents the leading cause of death in Germany, and banks on an outstanding strength in research and economy of the Aachen region.

We are your contact point if you want to disclose the potential of Medical Technology in the region for your own research, supply or entrepreneurship. Together we want to expand our network - cooperation also beyond the local region is our declared aim.

www.medtec-innrw.de



on behalf of the Cluster-Development:
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Irmato Industrial Solutions Aachen GmbH

Conceptual design and technical realization

Irmato is a multidisciplinary engineering and consultancy company that supports its customers with high-tech research. The unit Aachen is established from the Philips Research Laboratory.

We have wide experience in the fields of photonics, vacuum technology and semiconductors. One of our core competences is research & development in the field of medical engineering.

Our special strength is the development of innovative solutions for our customers and support in each development step.

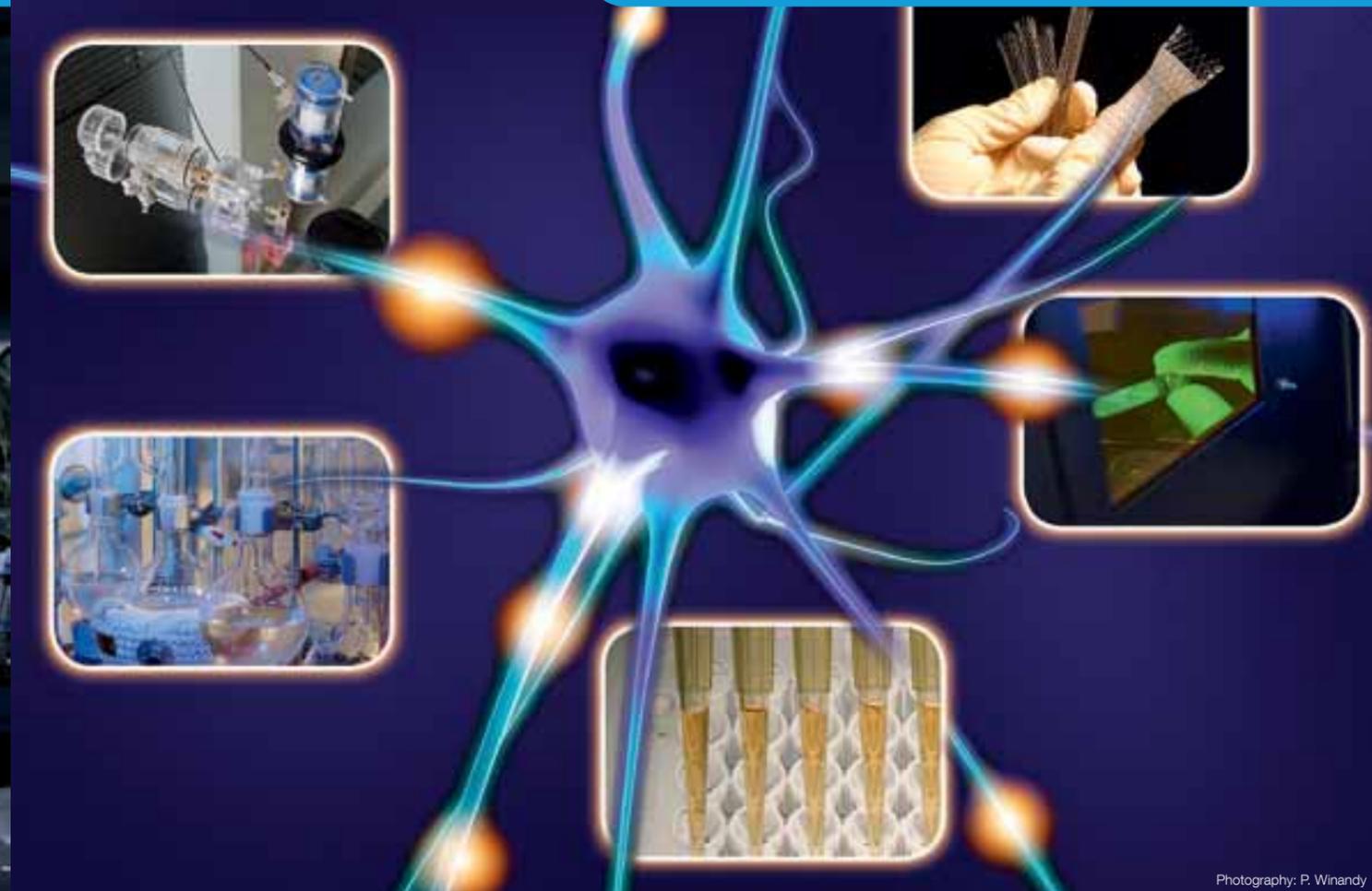
Based on our wide knowledge in material sciences and process control we develop and realize, for example, instruments for diagnostic imaging in pre-clinical, implants for novel therapy, as well as modern surgical instruments with our customers.

We realize our projects in three departments: Mechanical Development, Electronics Development and Model Workshop. The direct cooperation between these departments allows for highly customer oriented and efficient approaches.

With our ISO 9001 and 13485 certification we offer design, project management and realization at first hand.



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Photography: P. Winandy

LemnaTec

Looking how plants grow better – Scientific image processing since 1998

Founded in May 1998 in Aachen (Germany) with 8 partners coming from different backgrounds LemnaTec's philosophy has always been to consolidate various competences. The interdisciplinary LemnaTec team combines scientists as well as hard- and software engineers.

Quantifying how plants look like is a key point of what is called phenotyping in biology and agricultural sciences. It is the key point for the development of future crops which need less water and are resistant to pest while having the higher yield which is necessary for a growing world population.

The LemnaTec team develops hard- and software solutions for plant phenomics, high-throughput and high-content screening of plants, seedlings, insects and other organisms and for the automated evaluation. Digital images are taken by the scanalyzer3D and scanalyzerHTS systems all set up in a modular design. Using advanced LemnaTec image processing algorithms and fully integrated data analysis, every visible parameter (e. g. colour, shape, size, and architecture) is measured and further processed to be correlated with experimental records (e. g. genetic data). Our aim: to visualise and analyse the biology beyond human vision.



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LifeTecAachen-Jülich e.V.

Life Science in the heart of Europe

Initiated by the strong demand for an organization representing the life sciences within the Aachen-Jülich region, the association "LifeTecAachen-Jülich e.V." was founded in summer 2000. Today LifeTecAachen-Jülich e.V. based in Aachen is the biggest cluster of life sciences in the region and trans-regional in the tri-border area Meuse-Rhine. Our members and partners from science, business, business-development and investment profit from the close networking within the area and the neighboring regions in the Netherlands and Belgium. Our objective is to establish Aachen-Jülich and the Euregio Meuse-Rhine as a European centre of excellence in the prospective field of life sciences.

Main Activities:

- Networking and Cluster Management
- Conferences and Exhibitions
- Scientific Lectures and Professional Seminars
- Partnering Programs
- Participation in Euregional and National Projects in Life Sciences
- Staff Placement
- Arranging Contacts with VCs

Topics:

- Biomaterials, Sensors, Medical Devices, Pharmaceuticals,
- Industrial Biotechnology, Tissue Engineering, Molecular Imaging



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m2p-labs GmbH

Microbioreactors to speed up Bioprocess Development

m2p-labs is a leading biotechnology company focused on the development of intelligent new tools at microscale to fulfill the needs in screening and bioprocess development. The company empowers the biotechnology, chemical and pharmaceutical industry to increase the number and information content of microbial and cell culture experiments and enables customers to conduct experiments with greater efficiency, better quality and lower costs than in other cultivation systems. The combination of **high-throughput experimentation, online monitoring, scalability and automation** made m2p-labs technology to one of the preferred solutions in modern biotechnology labs. Our mission is to bring bioprocesses as fast as possible from **microreactor to process (m2p)**. The company currently employs 12 employees consisting of well trained engineers, biotechnologists, service technicians, accountants and sales managers. Due to the close location of the company to the RWTH Aachen University, m2p-labs is backed-up by scientists and engineers of this well-known University and conducts several joint research projects in the field of microreaction engineering with the University.



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Matricel GmbH

Matricel GmbH develops and produces innovative collagen implants and biomatrices for applications in medicine and biotechnology. Matricel's proprietary technologies in the area of collagen processing, matrix production and cross-linking (control of resorption time and degradation process) are the essential keys to successfully produce biocompatible and biodegradable matrices in a wide range of modifications suitable for the cultivation with human cells in tissue engineering and other clinical applications in regenerative medicine. The products serve different medical fields. *ACI-Maix* is a scaffold for tissue engineering of articular cartilage. *Remaix* is a barrier membrane for guided bone regeneration in dental treatments. Matricel's product line *Optimaix* is an open porous scaffold dedicated for research in 3D cell culture. In autumn 2011 the new product *Cartimaix* for cartilage regeneration in orthopedic applications was launched. Matricel has a promising product pipeline in further medical fields like dermal and nerve regeneration with customized scaffolds.

matricel

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mecora Medizintechnik GmbH

mecora Medizintechnik stands for the development of high-quality component parts and the production of small batches in the field of plastic medical engineering. We are a reliable and successful partner from the idea to the sterile product. Our experience and the combination of our own technology, development and production render us flexible, quick and cost-effective.

mecora was founded in 1993 in Aachen under the name polymedica as a GmbH. Since then, the company has been working successfully in the field of development and production of plastics engineering components for medical devices. mecora is a full-service partner for its customers from design and construction over tool making, manufacture of plastic components and clean-room assembly up to labelling and individual packaging. Since 1996 mecora has been certified according to DIN EN ISO 13485 as a medical device manufacturer. At mecora, the extensive documentations and quality assurance measures are audited several times annually.

mecora

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Meotec GmbH & Co. KG

Medical surface treatment for long-term and degradable implants

The newly found company, located at the interface between biotechnology and surface technology, has specialised on the subject of anodic surface conversion. By means of this electrochemical process the face of a light metal implant is converted into an oxide ceramic layer. This layer is not only widely corrosion- and wear-resistant, but shows a good tissue interaction when used for intracorporeal application. Besides, further applications of this surface treatment are the integration of drug-eluting-systems and especially degradation control of resorbable implants. The scope of application comprises long-term implants made of titan and degradable implants made of magnesium.

 **meotec**
MEDIZINISCHE OBERFLÄCHENTECHNIK

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52074 Aachen, Germany
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MRWire inserted via vena cava into renal artery.
Black dots illustrate the marking.
Technology of Nano4Imaging: MagnaFy

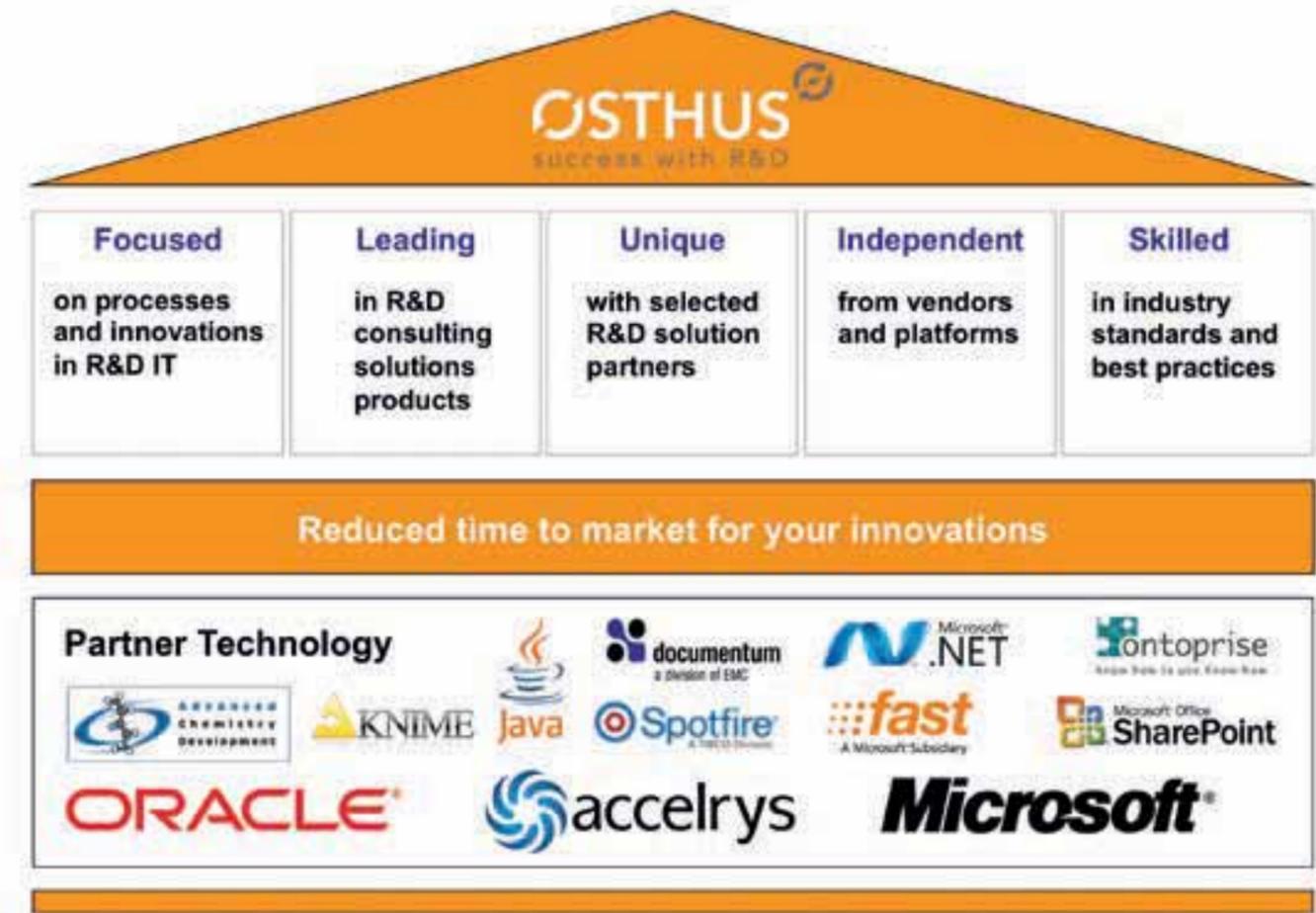
Nano4Imaging GmbH

Scientific image processing since 1998

Nano4Imaging offers products that allow cardiovascular interventions in MRI. Its marking systems can be customized and integrated in existing devices, such as catheters and implants. In addition, its unique guidewire is safe and visible in MRI and opens the way to stem cell application and radiation free interventions.



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www.nano4imaging.com



OSTHUS GmbH

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Researchers often come up against limits, not necessarily limits of mental capacity but limitations of IT. Founded in 1996 our international and independent operating company specializes in the effectiveness of research and development, through Consulting, IT development and system integration. We help our customer to generate new knowledge quicker and to implement new marketable innovations, as “first to market” products. Our consulting strives for the strategic goals of the projects, develops the specific requirements and introduces productive and efficient solutions. Using a combination of standard IT products and our own modules we develop process integrated, service orientated R&D architectures for both tailor-made and cost effective applications. With specialized IT services we support the operation of highly functional and holistic solutions. Our most important asset are interdisciplinary teams. Using their know-how and creativity, they manage to achieve the highest level of “added value” for our customers thus ensuring their long term success. Due to continued market demand the OSTHUS Team has currently grown to a group of more than 60 consultants and developers. Today we are considered experts in the field by Life Science businesses such as BASF, Bayer, Boehringer and Grünenthal.

To learn more about OSTHUS, please contact us or visit our website.



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PAION AG

“Polishing raw diamonds”

PAION is a biopharmaceutical company headquartered in Aachen, Germany and has a second site in Cambridge, UK.

The company is specialized in developing and commercializing innovative drugs for the hospital-based treatment in indications for which there is a substantial unmet medical need. After proof of concept in humans the strategy is to out-license or co-develop the drug candidates with pharma partners. Thus revenues can be generated at an early stage, decreasing development costs and risks. The company further profits from the receipt of payments for reaching clinical and commercial milestones and receiving royalties after market approval of the drugs. Further upside can be generated from co-commercialisation activities.

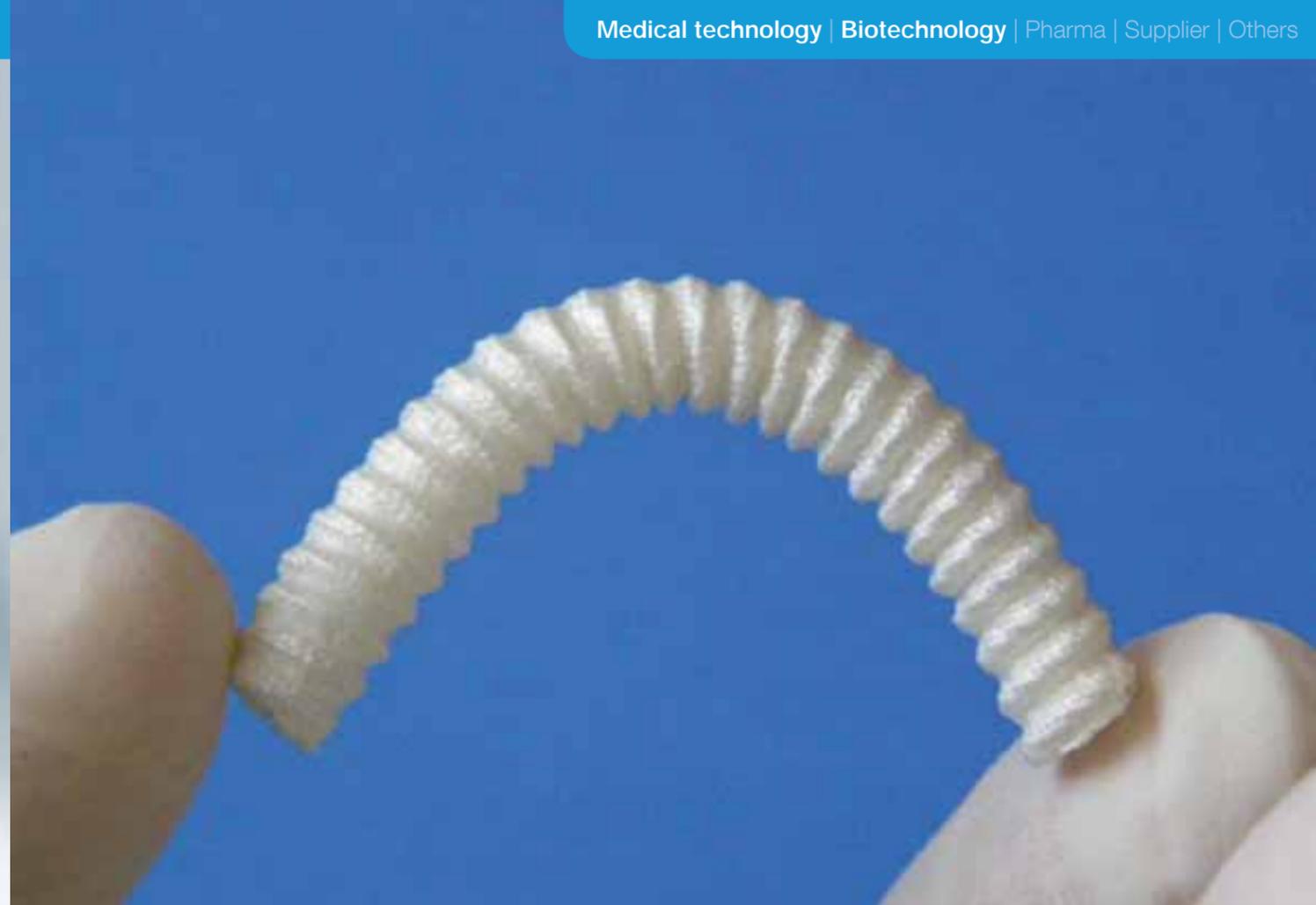
Our precious stones:

- Desmoteplase (Phase III); final polish currently being added by our partner Lundbeck
- The multi-faceted Remimazolam (ready for Phase III) for which a partner is being sought
- Solulin, which is undergoing its first polish in Phase Ib

PAION is listed at the Frankfurt Stock Exchange (Prime Standard Regulated Market, Stock Symbol PA8, ISIN DE000A0B65S3).



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Spintec Engineering GmbH

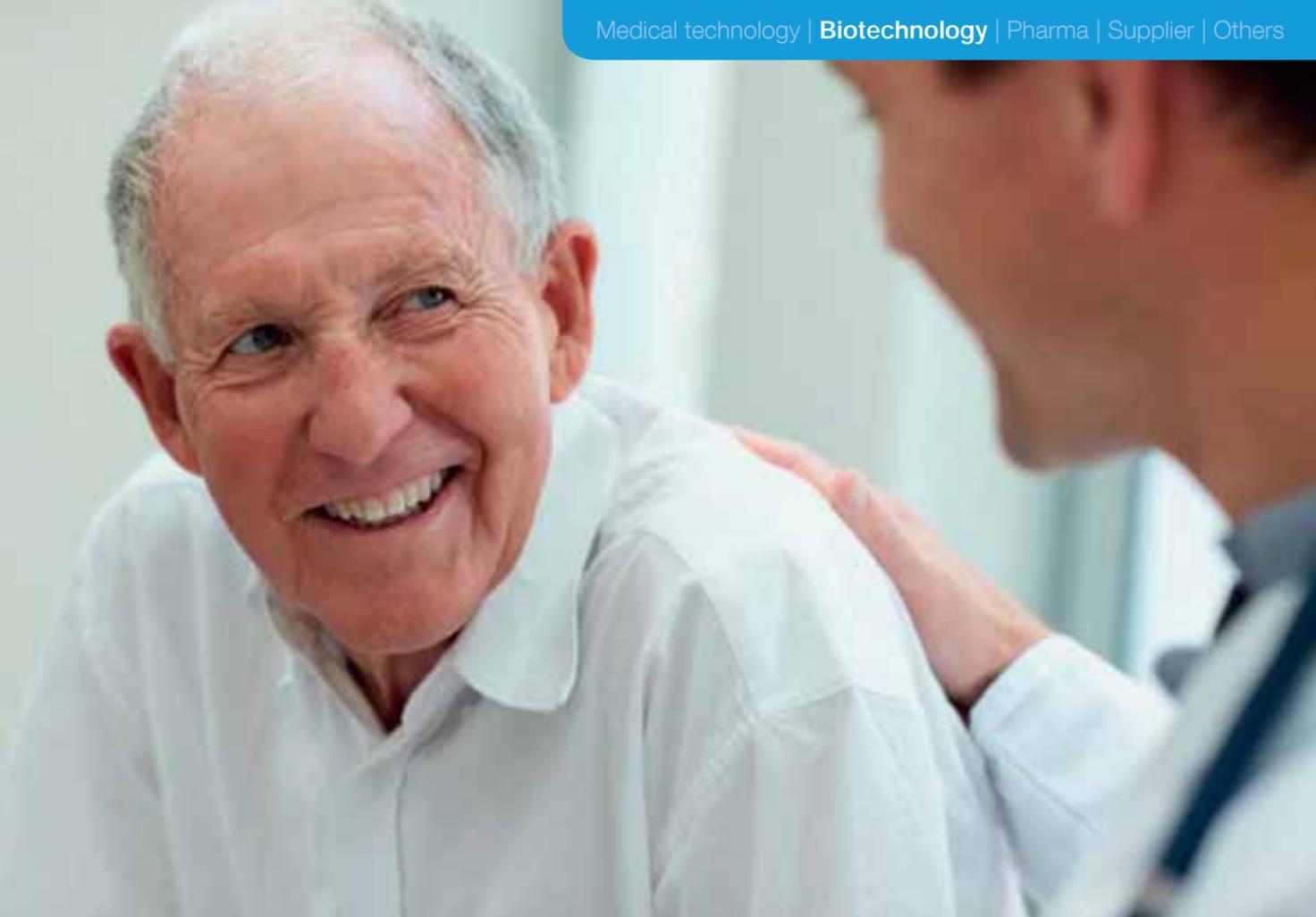
Engineering Silk for Medicine

Spintec develops bioresorbable medical products based on proprietary silk technologies.

For further information please visit us at www.spintec-engineering.de.



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Syntab Therapeutics

Synthetic Antibodies: Taking the best from nature

Syntab Therapeutics is committed to the exploration and development of innovative drugs against severe diseases such as cancer. The company strives for the early out-licensing of product candidates after completion of the preclinical development.

Syntab's technology platform enables the company to identify and develop drug candidates on its own or with the help of partner companies.

Applying its proprietary technologies, Syntab Therapeutics can chemically synthesize highly effective drugs. The flexibility of the technology is based on the application of diverse highly specific binders against cell surface markers. Furthermore, it has the potential to vary the number and specific properties of binders and effectors within each drug molecule. The effectors activate the immune system. Thus, Syntab's synthetic antibodies exhibit all desirable properties of conventional antibodies while, at the same time, being significantly smaller and chemically accessible molecules.

syntab
therapeutics

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TSI GmbH

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TSI Incorporated, founded in 1961, serves a global market by investigating, identifying and solving measurement problems. TSI partners with research institutions and customers around the world to set the standard for measurements relating to aerosol science, cleanroom certification & monitoring, laboratory pressurization controls, air flow, indoor air quality and other key parameters. As an industry leader in the design and production of precision measurement instruments, TSI has developed more than 200 precision instruments and over 50 patents as a byproduct of technology partnerships with scientists from leading research universities. This cooperation has resulted in more than 25 technology licenses spanning scientific to industrial manufacturing applications. TSI instruments contribute to the design and optimization of production procedures, verifying problem resolution or generating process improvement. With more than 400 employees, headquarters based in the U.S. and field offices throughout Europe and Asia, TSI has established a worldwide presence to serve the needs of industry, governments, research institutions and academia.



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Vimecon GmbH

HEALING ATRIAL FIBRILLATION

The Vimecon GmbH is a medical device company located in Herzogenrath near Aachen. The 2005 founded company develops novel catheter components and high performance materials for cardiovascular medicine. The Core of the development is a laser-based catheter system which is more comprehensively applicable than previous systems and using drugs for heart rhythm disturbances. In addition Vimecon manufactures products for the medical technology and biotechnology, which includes microscopic catheter, and micro - conveying technology for accurate measurement and dispense of medications. Vimecon maintains numerous customers in the academic and industrial research and development. As an innovative start-up, Vimecon was already awarded at the "Zukunftswettbewerb Medizintechnik" (future competitive medical technology) from the Federal Ministry for Education and Research and the national business plan competition "Medizinwirtschaft" (economic medicine). On top, Vimecon has been awarded with the TOP INNOVATOR AWARD in New York, U.S.A. Vimecon now belongs to a selected group of 50 Top Innovators.



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AGIT

AGIT mbH is the regional development agency in the Aachen region. Since 1983 it has developed from being the operator of the first technology center in Western Germany offering Business support for technology-oriented startups into an enterprise which today helps regional, innovative firms to grow, advises and assists enterprises looking for location, helps develop and accompanies development procedures, realises labour policy projects and markets the location.

www.agit.de

Vividlinks:

the online Career Community where Life Sciences professionals meet!



Vividlinks is a career community where vacancies and company profiles within the Euregional Meuse-Rhine Life Sciences Cluster are displayed to stimulate cross-border labour mobility. We provide information about working and living in the region and create a Life Sciences community.

www.vividlinks.eu



LifeTecAachen-Jülich e.V. is the „platform life sciences“ in the Aachen Region. LifeTecAachen-Jülich was founded in 2000 and aims at pooling and strengthening life sciences activities within the region of Aachen-Jülich. Comprising more than 70 members, the association encompasses more life sciences players than most other regions in Germany and Europe.

www.life-tec.org



The Aachen Center of Competence for Medical Technology (AKM) is a trusted partner in science, business and politics for medical technology, located in the heart of the new RWTH Aachen University Campus Cluster for Biomedical Engineering. In 2011, AKM has established the state cluster consortium *Medical Research and Technology North Rhine-Westphalia (MedizinTechnik.NRW)*. AKM stimulates young scientists and innovative High Potentials by awarding scholarships and the AKM Innovation Prize.

www.akm-aachen.de