

**Genomics & Proteomics** form the basis to detect the reason and cure numerous human diseases. They require knowledge and techniques from various disciplines, as you may find them in the **Meuse Rhine Triangle**, the heartbeat of Life Sciences in Europe.



“Confronted with the other world regions, European research will be able to survive only through full, true, cross-border collaborations. The Meuse Rhine Triangle offers us a fantastic opportunity. It would be suicidal not to seize it.”

### **Joseph Martial,**

Director of the laboratory of molecular biology and genetic engineering of the University of Liège and member of the Advisory Board of Eurogentec, Liège

A cluster of 300 innovative companies in medical technology & biotechnology

- 5 top universities and 3 academic hospitals
- Core competences: biotechnology, cardiovascular research and therapies, and biomaterials
- An unrivalled concentration of 130 world-class research centres
- 17,000 life sciences students & 11,000 university employees

[www.heartbeatineurope.org](http://www.heartbeatineurope.org)

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**HEARTBEAT  
OF LIFE SCIENCES  
IN EUROPE**



MEUSE RHINE TRIANGLE

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Meuse Rhine Triangle

**THREE COUNTRIES  
ONE MISSION | ONE BEAT**

**Discover  
the Heartbeat of Life  
Sciences  
In Europe!**

**Genomics &  
Proteomics**

## Looking for contact to R&D facilities?

- The **Genome Center Maastricht** (GCM) integrates genomics research and know-how, bioinformatics and a state-of-the-art infrastructure to create an optimal environment for research and training programmes. Specific research topics according to the well-known research centres at the University of Maastricht involve cardiomyopathies and atherosclerosis, nutrition, toxicology and cancer, hypoxia, signal transduction and mitochondrial disease and twin-studies and gene-environment interactions in common diseases. The Genome Centre Maastricht deals with 4 platforms: gene expression profiling, medium- and low-through-put genotyping, sequencing and bioinformatics. ([www.gen.unimaas.nl/popgen/](http://www.gen.unimaas.nl/popgen/))

- Hosted by the University of Liège (ULG), **GIGA-Interdisciplinary Cluster for Applied Genoproteomics** is a close, synergic collaboration between academic and corporate communities for research in genoproteomics applied to the biomedical sciences. Several facets form GIGA concept: a pole of excellence in academic research with the Centre of Biomedical Integrative Genoproteomics (CBIG), a dynamic bioincubator for spin-offs and start-up companies (GIGA Incubator) and a development area for biomedical businesses near Liège (GIGA Espace Entre-prises GEE) as well as a reference centre for training in biotechnology. ([www.giga.ulg.ac.be](http://www.giga.ulg.ac.be))

- The **Fraunhofer Institute of Molecular Biology and Applied Ecology** in Aachen conducts research in the field of applied life sciences from a molecular level to entire ecosystems. Its division „Molecular Biology“ identifies and characterizes new substances and targets for pharmaceutical product development, modern protection of plants and nanobiotechnological applications. The R&D activities of IME's business areas require a number of platform technologies that are organized as separate entities operating specialized equipment. These service units are available to the IME's research groups as well as external customers. IME offers contract services in DNA Sequencing, Chip technologies, mass spectroscopy, proteomics, protein production and purification, structure elucidation and antibody generation. ([www.ime.fraunhofer.de](http://www.ime.fraunhofer.de))

- Since 1955, **Philips** has a research facility in Aachen, which is part of Philips Corporate Research and employs about 270 researchers and other technical experts. The main theme is medical electronics. Philips explores new molecular imaging techniques leading to a much deeper understanding of the underlying molecular mechanisms controlling disease. In particular, advances in molecular target identification allow the development of new contrast agents and targeted drugs.

## Or interested in contact to companies?

- **Eurogentec S.A.** designs and delivers reliable and innovative services and products for life sciences. As a leading supplier for genomic and proteomic

research, Eurogentec is able to offer integrated solutions, whether they use DNA, antibodies, peptides or proteins as research tools. Eurogentec also offers research and development services for the biopharmaceutical industry. ([www.eurogentec.be](http://www.eurogentec.be))

- **DSM** is a highly valued supplier for major global producer in the pharmaceutical, food, automotive and transport, metal and machine building, agriculture and animal feed, textiles and construction industries. The life science products cluster's activities are mainly targeted at the pharmaceutical, food and agrochemical industries. DSM is an attractive partner for customers in the life science industry. Through the combination of biotechnology and organic chemistry, DSM can offer a wide range of technologies and support them with innovations. ([www.dsm.com](http://www.dsm.com))

- Based on its proprietary Magnetic Bead technology platform, **chemagen AG** (Baesweiler near Aachen) has focused on kits for nucleic acid isolation. Realizing that Magnetic Beads based kits are ideal for automation, the parallel development of high performance robots was a consequent continuation of chemagen's strategy to become a supplier of systems for automated sample preparation. ([www.chemagen.de](http://www.chemagen.de))

- and others:

- **Dyax**, Liège, [www.dyax.com](http://www.dyax.com)
- **OncoMéthylome Sciences**, [www.oncomethylome.com](http://www.oncomethylome.com)
- **DSM Biotech GmbH**, Jülich, [www.dsm.nl](http://www.dsm.nl)
- **Probiox S.A.**, Liège, [www.probiox.com](http://www.probiox.com)