

*Antleron is bringing a whole new era in healthcare closer every day. As an innovative team of engineers, we are ready to revolutionize medicine by leading the development of regenerative medical devices and advanced therapies.*

*To accelerate the engineering of such ground-breaking healthcare solutions, Antleron merges the potential of cells, biomaterials, biologics, 3D printing and bioreactors. As a result, patients can say goodbye to the 'one-treatment-fits-all' approach of today, and receive fully personalized care.*

## **Towards living implants**

Antleron has various co-development platforms, which specialize in biologically active implants that can be tailored to the needs of each individual patient. One of our key platforms uses electrospinning, 3D printing and bioreactors to transform cells and biomaterials into an engineered extracellular matrix. This matrix will contribute to living implant manufacturing as a generic but customizable building block.

## **Ecosystem projects**

Antleron offers project-based co-development of regenerative products by bringing in leadership, know-how, expertise and ideas. We merge these assets with complementary core technologies of partners that bring in industry-ready raw materials (such as stem cells, 3D-biomaterials, biologics and bioreactors), while targeting specific applications and markets for cell-based products.

Antleron's ecosystem projects turn these raw materials into robust, socio-economically viable and patient-specific regenerative products, which address targeted but unmet (clinical) needs in a sustainable way.

## **Hub for personalized manufacturing 4.0**

Our co-development of medical devices and advanced therapies will service life science customers in a better way. To enhance these ecosystem-based collaborations Antleron will set up a shared 'personalized manufacturing 4.0' hub to bring personalized implants and processes to life. This R&D hub will have an integrated focus on both 3D printed medical devices as well as cell-based advanced therapies.

Our hub will house dedicated 3D printers and bioreactors, while supporting the development of a personalized R&D environment and quality system. In combination with an experienced team, the hub will enhance customer interaction by providing an integrated service that speeds up and de-risks personalized product development.

# ANTLERON MAKES MEDICINE FULLY PERSONAL

## **Unique partnership with QbD**

To change healthcare forever, Quality by Design (QbD) and Antleron are building a unique ecosystem together. Antleron's team and R&D perfectly match with QbD's tools, skills and network.

By linking game-changing engineering to extensive quality management, the partnership between Antleron and QbD will create a landslide in healthcare. As a result, patients will finally receive the tailored treatments they deserve.





# THE TOTAL PACKAGE FOR QUALITY MANAGEMENT



QUALITY BY DESIGN

## Validation

Each biotech product needs a quality control process. By validating your processes, applications and equipment, you guarantee that your products meet quality demands and comply with regulations. Validation proves that the product is correctly prepared, packaged, labelled and traceable.

*QbD has an extensive range of validation services. Our specialists work in an efficient and well-structured way. The risk-based approach guarantees the right focus.*

## Technology Transfer

Bringing biotech products onto the market can take years. Any delay will result in loss of income. The registration procedure can be speeded up by the efficient transfer of technology between R&D and production.

*QbD has developed a Lean Technology Transfer Framework consisting of a scenario approach combined with templates. The framework serves as a lingua franca. It ensures thorough understanding between the sending and receiving units.*

## Quality Assurance

A quality management system helps you to comply with current and future regulations. In cosmetics companies, the importance of quality and safety is also becoming ever more important.

*QbD sets up or optimizes Quality Management systems, on paper or supported by IT systems. It prepares your company for internal and external audits, and provides training activities on GxP and validation. It provides QPs for long and short term assignments.*

## QbD Software

QbD Software is a versatile range of technological solutions developed especially for quality management in the life sciences, biotech and med-tech industries. Its solutions enable you to quickly build systems that are fully tailored to your specific needs and are in line with all software validation standards.

*QbD Software currently comprises four solutions: QualityKick™ QMS, CentralKick™ Portal, LabKick™ LIMS and QbD Software™ Framework.*

Visit [www.qbd.eu](http://www.qbd.eu) for more information.