

**NXT  
GEN**  
hightech

**Biomed05**

The next generation  
high tech equipment,  
**for cell production technologies**



# We innovate **together.**

Cell culture plays a central role in the development of next-generation technologies. Cell therapy, for example, in which cells are used as treatment, is a new form of therapy that requires the cultivation of high-quality cells. But the controlled and reproducible cultivation of cells is also important in other application areas like vaccine and viral vector production, replacing rodents in disease modelling, drug discovery, and cultured meat and leather.

The goal of this project is to **develop the next-generation of high-tech equipment for cell culture applications.** Using **innovative sensor technology, defined cultivation medium,** and **integration via microfluidics,** far-reaching control over the cell culture process will be realized. This will lead to high-quality cells and cell-derived products.

## Our Team

 **SCINUS**  
CELL EXPANSION

 **DEMCON**

 **Helia**  
Biomonitoring

 **BATAVIA**  
biosciences

 **Ncardia**

 **LioniX**  
INTERNATIONAL

 **ChiralVision**  
*innovative biocatalysis!*

 **Bronkhorst**<sup>®</sup>

 **TNCBIO**  
the pure company

 **TU/e**  
Technische Universiteit  
Eindhoven  
University of Technology

**UNIVERSITY  
OF TWENTE.**

 **UMC Utrecht**

## About **NXTGEN Hightech**

The NXTGEN Hightech program has been awarded a grant from the Dutch National Growth Fund to stimulate structural and sustainable economic growth in the Netherlands. Learn more:

[www.nxtgenhightech.nl](http://www.nxtgenhightech.nl)

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