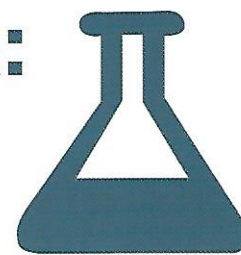


Life Science City Vienna: Looking Beyond the Medical Arena



The life sciences hold many promises that go beyond medicine. Its benefits will fundamentally advance numerous industrial branches and boost the development of a future circular and more sustainable economy. This requires carving out a specific business goal linked to major societal and economic problems. Several Vienna based companies have managed to develop suitable business cases and succeed in coming down with the inherent technological risks.

To strengthen pre-competitive research and technology development, the Austrian government is funding an initiative for advancing white biotech together with the provinces of Styria, Lower Austria, Tyrol and Vienna. At the **Austrian Centre of Industrial Biotechnology (acib)**, more than 150 partners from science and industry collaborate to lay the foundation for new processes and products. The exclusive network of methodological expertise and comprehensive knowledge has access to both the most modern academic infrastructure and to high-level business knowledge. Some 250 researchers address key issues that are expected to fundamentally change the chemical, clothing, cosmetics, detergents, feed, food, pharmaceuticals and plastics industries. In Vienna, acib builds

on a broad expertise especially at the **University of Natural Resources and Life Sciences (BOKU Vienna)**, **TU Wien**, the **University of Vienna** and at **FH Campus Wien**. Game-changing approaches can however also originate in smaller units as the four companies introduced below prove.

Acticell GmbH is dedicated to develop innovative solutions for emerging trends in the textile industry. What makes the company's products unique is that they are all safe and non-toxic. Tailor-made solutions allow manufacturers of denim fabrics and denim clothes to bleach and dye jeans without harming the environment or the people handling the fabrics. Products include chemicals for novel dyeing effects, for localized bleaching by laser and ozone technology, and enzyme boosters for pre-treatment.

Eucodis Bioscience GmbH delivers high-performance enzyme solutions for industrial applications. Its portfolio consists of over 50 enzymes including innovative lipases, beta-lactamases and peroxidases. Eucodis provides custom-tailored enzyme engineering, strain and bioprocess development, and fermentation in various host expression systems. Contract manufacturing of recombinant proteins is carried out under ISO 9001 up to a fermentation volume of 1000 L.

Evologic Technologies GmbH has set out to make agriculture more sustainable with the help of special soil microorganisms. Special symbiotic fungi, co-called AMF, are expected to decrease the need for chemical fertilizers and pesticides. To date, AMF products are simply too expensive. A new production method developed by Evologic Technologies will overcome this issue and make the AMF technology available to the worldwide market at a highly competitive price.

Syconium Lactic Acid GmbH is developing a production process for lactic acid operating at significantly lower costs compared to currently established production processes. The start-up combines the newest knowhow in metabolic engineering of yeast strains with innovative approaches in bioprocess engineering to reach this goal. Syconium expects to bring about clear benefits for the environment by shaking up the market for biodegradable plastics with its innovative solutions.

Why Vienna?



“ Vienna is a first class biotech location: you can find highly qualified personnel from local universities and technical colleges, funding and support from public agencies for start-up companies, and it has an ideal location in the heart of Europe. And on top of that, Vienna offers the highest quality of life in the world.”

© Petra Spödl

Dr. Karl Hübler,
CEO Eucodis Bioscience
GmbH

- acib.at
- acticell.at
- eucodis.com
- evologic-technologies.com
- syconiumlacticacid.com



Award-winning Enterprises

Vienna is proud to host highly innovative companies.

Contextflow: Innovation Award for Digital Solutions

Radiology Explorer, a radiology image search powered by deep learning to access the knowledge encoded in millions of medical images and reports

contextflow.com

Evologic Technologies: Science2Business Award 2017

Bioprocesses for white biotech products using advanced technologies from red biotech; novel production process for mycorrhizal fungi

evologic-technologies.com

ImageBiopsy Lab: WKO Born Global Champion Award

Computer-vision and artificial intelligence technology for standardized radiographic image analysis of osteoarthritis, osteoporosis and rheumatoid arthritis

imagebiopsylab.com

SCARLETRED: Austrian State Prize Digital Solutions

SCARLETRED@Vision revolutionizes dermatology through standardized digital documentation and objective digital assessment of visual skin changes

scarletredvision.com