

LISAvienna Highlights

Fall & Winter 2021

**Vienna Life Science Report
2021/22 available now**
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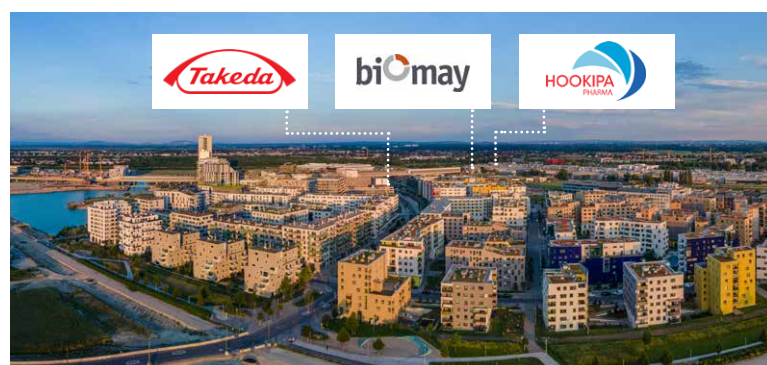
**Takeda: New R&D
building in Vienna**
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Vienna: Ideal location for developing and manufacturing bio- pharmaceuticals

Biomay, HOOKIPA Pharma and Takeda started building new biopharmaceutical facilities in Vienna and Boehringer Ingelheim celebrated the opening of its Large Scale Cell Culture plant. The companies in the Vienna BioCenter are also thriving. Benefit from synergies and discuss setting up your own facility in the city.

Aspern Seestadt quarter

Aspern Seestadt is one of Europe's largest urban development areas that aims to accommodate 25,000 people and thousands of workplaces. This prime business location is directly connected to the city center by the U2 underground line and urban railway. It has already attracted several innovators who are providing great job opportunities in an outstanding feel-good working environment with childcare, schools, and shops. There is also plenty of rental office space as well as traditional manufacturing and craft space available at the Technology Centre Seestadt.



Biopharma goes Seestadt

Biomay is particularly renowned as a CDMO for pDNA, recombinant proteins and mRNA for vaccines and gene-therapies. With multiple manufacturing lines in the new GMP facility clients can be supported from early clinical development through to market supply.

HOOKIPA Pharma Inc. is a NASDAQ-listed clinical-stage biopharmaceutical company focused on developing novel immunotherapies that mobilize and amplify targeted T cells to address unmet needs in cancer.

Takeda is a global, R&D-driven, biopharmaceutical leader which delivers highly innovative medicines and transformative care to people around the globe. The company's product pipeline includes medicines derived from human blood plasma, biologics and therapeutics based on gene therapy.

www.aspern-seestadt.at



Dear readers!

We are very pleased to present to you the fifth report on Vienna's thriving life science community. Enjoy deepening your understanding of the city's life science sector by reading the new Vienna Life Science Report and reach out if you have any questions. In addition, we bring you up to date on recent success stories including HOOKIPA Pharma and Takeda constructing new facilities in Vienna, investment and licensing deals, and M&A activities such as BioNTech acquiring PhagoMed. As vaccination rates rise and testing gets the new normal in Vienna, we are again having safe in-person meetings. Hosting the LISAvienna Regulatory Conference for Medical Devices and IVD, and the European Forum for Industrial Biotechnology and the Bioeconomy in Vienna was a great pleasure. The EFIB Vienna Statement 2021 addresses biotechnology as a key enabling technology allowing us to move beyond fossil sources for products and process, reduce energy consumption and waste, and conserve scarce resources. To provide its full value to society, environment and economy, biotech leaders encourage policy makers to demand innovative solutions for the environmental challenges we face and to put those solutions into practice at full speed. Austria and Vienna are committed to growing the life science sector. Contact the LISAvienna team to learn more about all the opportunities here. We are looking forward to meeting you in real life or online.

Johannes Sarx and Philipp Hainzl
LISAvienna Executive Board



+++ Funding Opportunities +++

aws PreSeed

max. €200,000, apply at any time

aws Seedfinancing

max. €800,000, apply at any time

Vienna Business Agency: Startup Scholarship

max. €25,000, deadline: 31.1., 31.8.2022

Vienna Business Agency: Innovate4Vienna

max. €150,000, deadline: 31.3.2022

+++ Upcoming LISAvienna events +++



During **ViennaUP'22**, we will organize a community event for biotechnology, pharma, medtech and digital health innovators at Kursalon Hübner.



LISAvienna turns 20 next year. Join us in celebrating Vienna's flourishing life sciences sector at the Vienna City Hall in fall 2022.

Don't miss these two great networking opportunities and subscribe to our newsletter to keep up to date.

Meet us at trade shows and partnering conferences – in person and online!

Arab Health

Dubai, 24.-27.1.2022

HIMSS Annual Conference and Exhibition

Orlando, 14.-18.3.2022

BIO-Europe Spring

Basel, 4.-6.4.2022

DMEA

Berlin, 26.-28.4.2022

Vienna Life Science Report 2021/22 available now

The new Vienna Life Science Report 2021/22 confirms that Vienna is Austria's leading city for biotech, pharma, medical device, and digital health companies as well as related fields of research.

Vienna is home to 600 life sciences organizations, including ambitious start-ups, successful SMEs, subsidiaries of internationally active large businesses, and world-class research facilities. In total, around 41,000 employees work in this field. The sector's significance can be seen in its revenues of around €13.3bn, more than 42,000 students, and more than 8,000 internationally recognized specialized publications in 2020. Overall, Vienna hosts about half of Austria's life sciences community. Most of the top 20 global market leaders in the sector maintain a strategic presence in the region.

Innovation drives business

Vienna's life science industry has enormous potential for innovation. Up to 40% of life science businesses carry out research, development, or manufacturing here. These companies invested €850 m in R&D in 2020. Ten to twenty newly established companies each year and large-scale site expansions by big companies show how much Vienna benefits from strengthening the life science sector with dedicated funding programs and infrastructure.

Biotech community on the rise

The biotechnology and pharma sector comprises 260 companies. Cancer, respiratory diseases, and infectious diseases such as COVID-19 are the three main focus areas for the Vienna's dedicated medical biotech companies. Most of these companies are striving to develop new drugs, drug components and solutions to advance and improve drug development. In addition, companies developing research reagents are emerging while business ideas involving the bioeconomy are gaining importance.

Medtech goes digital

The medical device sector comprises 251 companies and it is particularly strong in terms of sales and distribution. However, more and more entrepreneurs are finding opportunities linked to IT, material science or biotechnology, for example. These address new market niches in Vienna, especially for software as a medical device. Companies developing single-use devices, active implantable devices and in-vitro diagnostics are also on the rise.

Partners are key to success

More than 100 investments, licensing and M&A agreements and major orders are documented for 2018 to 2020. Vienna's life science start-ups and scale-ups announced investment agreements worth more than €900m and licensing deals, M&A agreements and major orders totaling over €2.3bn. Most of the high-volume deals center on drug development. These figures are at an all-time high for Vienna even though many agreements are not included in these sums as no financial details were disclosed.

**Download the file
from www.LISAvienna.at
or order a free print copy
at office@LISAvienna.at.**



Bulletin Board

Boehringer Ingelheim

inaugurates its Large Scale Cell Culture (LSCC) production facility in Vienna

www.boehringer-ingelheim.at



© Bohringer Ingelheim RCV / Rainer Mirau

Valneva

reports positive Phase 3 results for its inactivated, adjuvanted COVID-19 vaccine candidate VLA2001

www.valneva.com



© Valneva

B&C Privatstiftung:

TU Wien and Symptoma win the Houska Prize 2021 and a special award for the development of a reliable SARS-CoV-2 test was granted

www.bcgruppe.at/houskapreis



© Georg Wilke

University of Vienna

to open a new University Biology Building at the Vienna BioCenter

www.univie.ac.at



© LISAVienna / andreasbuchberger.com

AUSTRIAN LIFE SCIENCES DIRECTORY



www.lifesciencesdirectory.at

Dedalus HealthCare

integrates **contextflow** SEARCH Lung CT into DeepUnity

www.contextflow.com

I ♥ Vienna

Cutanos

closes a financing round and speeds up the development of new dermal targeted delivery systems for immunotherapies

www.cutanos.com

SzeleSTIM:

Market launch of VIVO – an innovative medical device for minimally invasive and personalized pain treatment with CE marking

www.szelestim.com





Research Market Place:

Explore acib's new offers to inspire your business

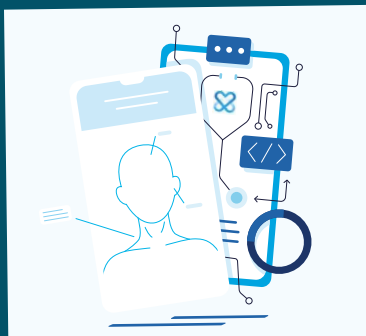
www.acib.at



XUND to partner with Wiener Städtische

on a 24/7 health assistant that helps people to better understand their symptoms and thus make informed decisions about their health

www.xund.ai



Access to state-of-the-art research infrastructure and scientific services

www.viennabiocenter.org/vbcf/

AOP Orphan:

New headquarters in Vienna includes a new packaging unit that will facilitate supply of medicines for rare diseases

www.aoporphan.com

ÖGMBT:

Children's cancer research, energy production in cells, vascular models on the chip: Awards presented to young Austrian researchers

www.oegmbt.at



© ÖGMBT

MacroArray Diagnostics

will launch their first US consumer brand 7DROPS by the end of November. They are offering customers easy and cost-efficient access to molecular allergy and food intolerance testing by collecting their own sample with the 7DROPS at-home test kit and sending it back to the lab for analysis

www.7drops.com



Lithoz

expands production by opening a second base in Vienna, celebrates its 10th anniversary and starts providing innovative 3D-printed ceramic materials and solutions in dentistry

www.lithoz.com

AC Immune

acquires **AFFIRIS's** anti-alpha-synuclein programs targeting neurodegenerative diseases

www.affiris.com

Platomics: €14m investment

The Vienna based company Platomics provides a software ecosystem with which lab developed tests for genetic testing become compliant with EU IVDR. A €14m investment will speed up rollout throughout Europe.

Personalized medicine involves genetic tests. Test results need to be generated with utmost care and compliance with the EU's strict legal framework to ensure patient safety. The EU IVDR will fundamentally change the way in-vitro diagnostic tests are developed, manufactured, and used in Europe. This specifically applies to lab developed tests for genetic testing – a newly regulated area. Despite the proposed prolonged transitional period for some requirements, labs are well advised to not only comply with GDPR, but to also prepare for full compliance with EU IVDR as soon as possible.

Quality management in the age of strict regulation and big data

Platomics set out to support labs providing genetic test services with a quality management system. The company's software ecosystem aims to connect and securely store data from physicians commissioning tests, patients, suppliers of reagents and labs developing, applying and analyzing genetic tests - all in a highly innovative manner that ensures that all regulatory requirements are met. Platomics' software tackles the upcoming challenges to bring labs into compliance with the EU IVDR and contributes to minimizing their legal risks. The platform uses a unique combination of scaling infrastructure, data processing, and advanced algorithms for big data management and performs highly reliable analyses. It also strives towards significant automatization processes at genetic testing labs that cut costs and make the tests required for personalized medicine more affordable.

www.platomics.com



Takeda: New R&D building in Vienna

The globally active biopharmaceutical company Takeda announced the construction of a green building in Vienna which will become the new home for 250 top researchers focusing on biologics and gene therapy.

Takeda will invest more than €120m in its new 25,000m² R&D site at Vienna's aspern Seestadt quarter. This represents the company's largest R&D investment in Austria. The new "laboratory of the future" will be dedicated to the development of cutting-edge therapeutic approaches for neurological, gastrointestinal, oncological, and hematological disorders as well as rare diseases. Manfred Rieger, R&D Site Head at Takeda in Austria notes: "In our new building, we will be able to better use our long-standing know-how to develop innovative drugs – from drug candidate selection and pre-clinical tests through to clinical trials and market authorization."

Takeda in Austria

Currently, the company is developing and manufacturing several life-saving drugs in Austria. About 4,500 employees in the country deliver highly innovative medicines and transformative care to people around the globe. Takeda's products "made in Austria" include drugs for rare diseases derived from human blood plasma or therapeutically active recombinant proteins. Talented researchers, engineers, manufacturing and quality control experts, project managers and other professionals are encouraged to start a career at Takeda in Vienna.

www.takeda.com

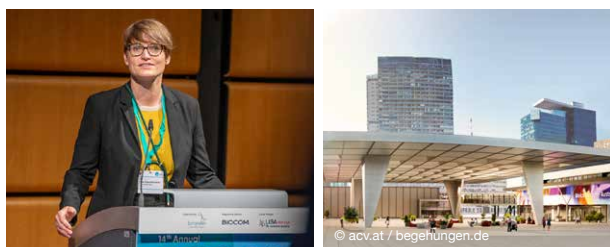
Let's meet in Vienna, the city of life and sciences

The life science sector's success in providing vaccines, tests, masks, and other products for containing the pandemic saves lives and allows us to meet in person again. However, broad application of the community's contributions is a prerequisite.

LISAvienna is happy to have hosted key conferences in Vienna in October and looks forward to meeting you at upcoming events. Contact us in case you plan top congresses focusing on life science topics in Vienna.



LISAvienna's Regulatory Conference for Medical Devices and IVD



Eva Czernohorszky, Head of Technology Services at the Vienna Business Agency and member of LISAvienna's top-level committee, the ARGE council, welcoming EFIB delegates

Financial support for organizing congresses in Vienna

- Vienna Meeting Fund 2021-2023 facilitates organizing congresses and corporate events
- Vienna Convention Fund 2024+ supports organizing international congresses from January to April, and in July, August, November and December

www.vienna.convention.at



BioNTech acquired PhagoMed

The Viennese biotechnology company **PhagoMed Biopharma GmbH** is specialized in the development of a new class of antibacterials. **BioNTech** acquired the company to expand its infectious disease portfolio. **PhagoMed** now is **BioNTech R&D (Austria) GmbH**.

PhagoMed uses lysins to fight bacterial infections as an alternative to antibiotics. Lysins are enzymes produced by bacteriophages – the most abundant and diverse entity on earth that break down bacterial cell walls and thereby kill bacteria. Lysins are also very precise, meaning they selectively kill only specific groups of bacteria. PhagoMed's LysinBuilder platform enables the development of synthetic lysins resulting in a novel class of targeted antibacterials and the potential to revolutionize the treatment of bacterial infections.

New class of antibacterials

"We are thrilled to partner with BioNTech to further advance our synthetic lysin technology to address pressing health challenges," said Alexander Belcredi and Lorenzo Corsini, co-CEOs of PhagoMed. "We thank the team, our mentors at aws, FFG and EIT Health for their support to help us refine our pipeline, platform and business model that enabled us to achieve our critical business goals in this short timeline."

www.biontech.de

Groundbreaking ceremony for HOOKIPA's new production site

HOOKIPA Pharma, headquartered in the Vienna BioCenter, is celebrating its tenth birthday this year. HOOKIPA is now planning to build a 4,500m² manufacturing facility with Quality Control laboratories and office space in Vienna, Aspern Seestadt. In a subsequent expansion stage, the site will include an additional manufacturing facility and a multifunctional building with R&D labs.

With currently around 130 employees in Vienna and New York, an IPO on the Nasdaq in 2019 and several financing rounds, HOOKIPA is a leading biopharmaceutical company. It is developing a new class of immunotherapies to combat cancer and infectious diseases more effectively. These immunotherapeutics are based on a proprietary arenavirus platform and are designed to reprogram the body's immune system. Not only cancer, but also HIV, hepatitis B and other serious diseases could be treated much more efficiently in the future.



© aspern Die Seestadt Wiens, Wien 3420 AG / APA-Fotoservice/Schedl

Optimal conditions for manufacturing

For Roman Necina, CTO of HOOKIPA Pharma, the reasons for setting up the new production site in Vienna are clear: "Proximity to our arenavirus experts at the Vienna BioCenter was a critical factor in the choice of location. Aspern Seestadt provides optimal, future-oriented conditions for our first production site." Viral vectors for clinical trials as well as commercial products will be manufactured



on an industrial scale at the newly built production site. With the construction of the plant, HOOKIPA can cut costs in the long term, reduce development cycles and prevent supply bottlenecks. In addition, deep expertise will remain within the company, which will give it a competitive advantage over the coming years. "With this choice of location, we are sending a strong signal for Vienna as a business and research location. In the first stage, we will create up to 60 new jobs here, and once fully operational we want to increase the number of employees in production to a total of 100", adds Necina.



© HOOKIPA Pharma

Why Vienna?

The Viennese biotech arena is an important and competitive hub at the center of Europe's biotech and life science sector. It provides a highly dynamic environment on an inter-

national scale which enhances the industry's capacity to innovate. For HOOKIPA, it provides fertile ground for advancing and delivering results that demonstrate the potential and uniqueness of our novel technology platform. Moreover, our people just love Vienna as a place to live.

Joern Aldag, CEO, HOOKIPA Pharma