
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

FORM 6-K

**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES
EXCHANGE ACT OF 1934**

For the month of October 2024

Commission File Number: **001-39950**

Evaxion Biotech A/S
(Exact Name of Registrant as Specified in Its Charter)

Dr. Neergaards Vej 5f
DK-2970 Hoersholm
Denmark
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F [X] Form 40-F []

INCORPORATION BY REFERENCE

This report on Form 6-K shall be deemed to be incorporated by reference in Evaxion Biotech A/S's registration statements on Form S-8 (File No. 333-255064), on Form F-3 (File No. 333-265132), on Form F-1, as amended (File No. 333-266050), Form F-1 (File No. 333-276505), and Form F-1 (File No. 333-279153), including any prospectuses forming a part of such registration statements and to be a part thereof from the date on which this report is filed, to the extent not superseded by documents or reports subsequently filed or furnished.

Press Release

On October 9, Evaxion Biotech A/S (the "Company"), a clinical-stage TechBio company specializing in developing AI-Immunology™ powered vaccines, issued a press release titled "Strong validation of Evaxion's AI-Immunology™ platform in multiple clinical trials". A copy of the press release is furnished as Exhibit 99.1 to this report on Form 6-K.

Exhibits

<u>Exhibit No.</u>	<u>Description</u>
99.1	Press Release dated October 9, 2024

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Evaxion Biotech A/S
(Registrant)

Date: October 9, 2024

By: /s/ Christian Kanstrup
Christian Kanstrup
Chief Executive Officer

Strong validation of Evaxion's AI-Immunology™ platform in multiple clinical trials

- **Data from three separate clinical trials documents the strong ability of the AI-Immunology™ platform to select clinically relevant vaccine targets**
- **Strongest outcomes are generated by the top-ranked AI-Immunology™ vaccine targets, thereby linking AI-vaccine design with real-world evidence**
- **This underscores the platform's unique potential in selecting effective vaccine targets**
- **The ongoing generation of relevant clinical data allows for continuous refinement of AI-Immunology™ thereby broadening the commercial potential of the platform**

COPENHAGEN, Denmark, October 9, 2024 – Evaxion Biotech A/S (NASDAQ: EVAX) (“Evaxion”), a clinical-stage TechBio company specializing in developing AI-Immunology™ powered vaccines, has now evidence from three different clinical trials validating the vaccine target predictions of its AI platform.

Evaxion has developed three personalized cancer vaccine candidates with the use of its AI-Immunology™ platform. Two of these – EVX-01 and EVX-02 – have completed clinical phase 1 testing and EVX-01 is currently in phase 2, while the third – EVX-03 – is an IND-ready vaccine candidate.

The AI-Immunology™ platform identifies cancer vaccine targets, so called neoantigens, and assigns a prediction score reflecting the likelihood of each vaccine target to elicit a specific immune response against the tumor. In all three clinical trials, a statistically significant correlation was observed between the AI-Immunology™ prediction scores and the immunological responses measured in the patients, with the most robust responses being generated by vaccine targets with the highest AI-Immunology™ prediction scores.

Further, in the one trial where it was assessed, a statistically significant correlation was demonstrated between AI-Immunology™ prediction scores and Progression Free Survival (PFS) in patients, underscoring the platform's ability to identify vaccine targets with meaningful clinical impact.

“We are proud to have collected such strong clinical data documenting the unique predictive capabilities of the AI-Immunology™ platform across several clinical trials. The correlation between the platform's prediction score and clinical outcome is unique and provides very solid guidance for the further development of personalized cancer vaccines based upon AI-Immunology™. Generating highly relevant clinical data is very important for our ability to apply constant learning loops, allowing for the continuous development of AI-Immunology™,” says Christian Kanstrup, CEO of Evaxion.

About AI-Immunology™

AI-Immunology™ is a scalable and adaptable artificial intelligence technology platform at the forefront of vaccine discovery for infectious diseases and cancers. By integrating the collective power of proprietary AI models PIONEER™, EDENT™, RAVEN™, and ObsERV™, the platform can model the complexity of the patient's immune system. AI-Immunology™ advanced computational modeling swiftly and uniquely identifies, predicts, and designs vaccine candidates, revolutionizing the landscape of immunotherapy by offering a holistic and personalized approach to combat fast-evolving pathogens and malignant cells.

Contact information

Evaxion Biotech A/S
Mads Kronborg
Vice President, Investor Relations & Communication
+45 53 54 82 96
mak@evaxion-biotech.com

About EVAXION

Evaxion Biotech A/S is a pioneering TechBio company based upon its AI platform, AI-Immunology™. Evaxion's proprietary and scalable AI prediction models harness the power of artificial intelligence to decode the human immune system and develop novel immunotherapies for cancer, bacterial diseases, and viral infections. Based upon AI-Immunology™, Evaxion has developed a clinical-stage oncology pipeline of novel personalized vaccines and a preclinical infectious disease pipeline in bacterial and viral diseases with high unmet medical needs. Evaxion is committed to transforming patients' lives by providing innovative and targeted treatment options. For more information about Evaxion and its groundbreaking AI-Immunology™ platform and vaccine pipeline, please visit our website.

Forward-looking statement

This announcement contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. The words “target,” “believe,” “expect,” “hope,” “aim,” “intend,” “may,” “might,” “anticipate,” “contemplate,” “continue,” “estimate,” “plan,” “potential,” “predict,” “project,” “will,” “can have,” “likely,” “should,” “would,” “could,” and other words and terms of similar meaning identify forward-looking statements. Actual results may differ materially from those indicated by such forward-looking statements as a result of various factors, including, but not limited to, risks related to: our financial condition and need for additional capital; our development work; cost and success of our product development activities and preclinical and clinical trials; commercializing any approved pharmaceutical product developed using our AI platform technology, including the rate and degree of market acceptance of our product candidates; our dependence on third parties including for conduct of clinical testing and product manufacture; our

inability to enter into partnerships; government regulation; protection of our intellectual property rights; employee matters and managing growth; our ADSs and ordinary shares, the impact of international economic, political, legal, compliance, social and business factors, including inflation, and the effects on our business from the worldwide ongoing COVID-19 pandemic and the ongoing conflict in the region surrounding Ukraine and Russia and the Middle East; and other uncertainties affecting our business operations and financial condition. For a further discussion of these risks, please refer to the risk factors included in our most recent Annual Report on Form 20-F and other filings with the U.S. Securities and Exchange Commission (SEC), which are available at www.sec.gov. We do not assume any obligation to update any forward-looking statements except as required by law.