
**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
OF THE SECURITIES EXCHANGE ACT OF 1934**

For the month of September 2024

(Commission File No. 001-38215)

NUCANA PLC

(Translation of registrant's name into English)

**3 Lochside Way
Edinburgh EH12 9DT
United Kingdom**
(Address of registrant's principal executive office)

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

Form 20-F Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101 (b) (1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101 (b) (7):

Other Events

On September 14, 2024, NuCana plc (the “Company”) issued a press release announcing the presentation of final data from the Phase 2 NuTide:701 study on NUC-7738 at the European Society for Medical Oncology (ESMO) Congress 2024. The press release is attached as Exhibit 99.1 hereto and is incorporated by reference herein.

The information in the attached Exhibit 99.1 is being furnished and shall not be deemed “filed” for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or otherwise subject to the liabilities of that Section, nor shall it be deemed incorporated by reference in any filing made by the Company under the Securities Act of 1933, as amended, or the Exchange Act, except as otherwise set forth herein or as shall be expressly set forth by specific reference in such a filing.

Exhibits

99.1 [Press Release, dated September 14, 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.

NuCana plc

By: /s/ Donald Munoz

Name: Donald Munoz

Title: Chief Financial Officer

Date: September 16, 2024

NuCana Presents Encouraging Data on NUC-7738 in Combination with Pembrolizumab in PD-1 Inhibitor Refractory and Resistant Melanoma Patients at the ESMO Congress 2024

Combination of NUC-7738 plus Pembrolizumab Resulted in Prolonged Progression Free Survival, a Compelling Disease Control Rate including Partial Responses, and a Favorable Safety Profile

Barcelona, Spain, September 14, 2024 (GLOBE NEWSWIRE) – NuCana plc (NASDAQ: NCNA) presented final data from the Phase 2 NuTide:701 study at the ESMO Congress on NUC-7738 in combination with pembrolizumab for patients with metastatic melanoma who were refractory to or had relapsed on prior PD-1 inhibitor therapy.

In this cohort of 12 patients, most of whom had received at least two prior lines of PD-1 inhibitor therapy, nine (75%) achieved disease control, including two patients who achieved Partial Responses. One of these patients, who had received two prior lines of PD-1 inhibitor-based therapy and had progressed on their latest treatment of ipilimumab plus nivolumab within two months, achieved a 55% reduction in tumor volume. Seven of the 12 patients had a progression free survival time of greater than five months, which is highly atypical in this patient population. In addition to achieving these encouraging efficacy signals, the combination of NUC-7738 and pembrolizumab had a favorable safety profile.

NUC-7738's ability to sensitize PD-1 resistant tumors to rechallenge with PD-1 inhibitors is believed to be due to its ability to target multiple aspects of the tumor microenvironment (TME) via the disruption of RNA polyadenylation and subsequent changes to gene expression in cancer cells. In support of this hypothesis, data presented from tumor biopsies obtained before and after NUC-7738 based treatment demonstrated increases in genes related to antigen presentation and T-cell activation.

Hugh S. Griffith, NuCana's Founder and Chief Executive Officer said: "We are very excited to share these data on NUC-7738 in combination with pembrolizumab in PD-1 inhibitor refractory and resistant patients with melanoma. Outcomes in this patient population are very poor, with median progression free survival of 2-3 months with the current standard of care, so we are very encouraged that the majority of patients who received this combination achieved a progression free survival of more than five months."

Mr. Griffith continued: "The translational data that has been generated in this study and in previous non-clinical studies give us confidence that the effects we are seeing are a result of NUC-7738 making previously resistant tumors sensitive to rechallenge with PD-1 inhibitors by targeting multiple aspects of the tumor microenvironment. Our data on NUC-7738 obtained in other tumor types indicate that this phenomenon is not restricted to melanoma and that NUC-7738 may have the ability to sensitize other PD-1 inhibitor resistant tumor types. We look forward to sharing our development plans for NUC-7738 in the near future."

About NuCana

NuCana is a clinical-stage biopharmaceutical company focused on significantly improving treatment outcomes for patients with cancer by applying our ProTide technology to transform some of the most widely prescribed chemotherapy agents, nucleoside analogs, into more effective and safer medicines. While these conventional agents remain part of the standard of care for the treatment of many solid and hematological tumors, they have significant shortcomings that limit their efficacy and they are often poorly tolerated. Utilizing our proprietary technology, we are developing new medicines, ProTides, designed to overcome the key limitations of nucleoside analogs and generate much higher concentrations of anti-cancer metabolites in cancer cells. NuCana's pipeline includes NUC-3373 and NUC-7738. NUC-3373 is a new chemical entity derived from the nucleoside analog 5-fluorouracil, a widely used chemotherapy agent. NUC-3373 is currently being evaluated in two ongoing clinical studies: a Phase 1b/2 study (NuTide:302) in combination with leucovorin, irinotecan or oxaliplatin, and bevacizumab in patients with metastatic colorectal cancer; and a Phase 1b/2 modular study (NuTide:303) of NUC-3373 in combination with the PD-1 inhibitor pembrolizumab for patients with advanced solid tumors and in combination with docetaxel for patients with lung cancer. NUC-7738 is a novel anti-cancer agent that disrupts RNA polyadenylation, profoundly impacts gene expression in cancer cells and targets multiple aspects of the tumor microenvironment. NUC-7738 is in the Phase 2 part of a Phase 1/2 study (NuTide:701) which is evaluating NUC-7738 as a monotherapy in patients with advanced solid tumors and in combination with pembrolizumab in patients with melanoma.

Forward-Looking Statements

This press release may contain "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995 that are based on the beliefs and assumptions and on information currently available to management of NuCana plc (the "Company"). All statements other than statements of historical fact contained in this press release are forward-looking statements, including statements concerning the Company's planned and ongoing clinical studies for the Company's product candidates and the potential advantages of those product candidates, including NUC-3373 and NUC-7738; the initiation, enrollment, timing, progress, release of data from and results of those planned and ongoing clinical studies; the Company's goals with respect to the development, regulatory pathway and potential use, if approved, of each of its product candidates; and the utility of prior non-clinical and clinical data in determining future clinical results. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "should," "expects," "plans," "anticipates," "believes," "estimates," "predicts," "potential" or "continue" or the negative of these terms or other comparable terminology. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These risks and uncertainties include, but are not limited to, the risks and uncertainties set forth in the "Risk Factors" section of the Company's Annual Report on Form 20-F for the year ended December 31, 2023 filed with the Securities and Exchange Commission ("SEC") on March 20, 2024, and subsequent reports that the Company files with the SEC. Forward-looking statements represent the Company's beliefs and assumptions only as of the date of this press release. Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee future results, levels of activity, performance or achievements. Except as required by law, the Company assumes no obligation to publicly update any forward-looking statements for any reason after the date of this press release to conform any of the forward-looking statements to actual results or to changes in its expectations.

For more information, please contact:

NuCana plc
Hugh S. Griffith
Chief Executive Officer
+44 131-357-1111
info@nucana.com

ICR Westwicke
Chris Brinzey
+1 339-970-2843
chris.brinzey@westwicke.com