

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): July 31, 2023

**180 LIFE SCIENCES CORP.**  
(Exact Name of Registrant as Specified in Charter)

**Delaware**  
(State or Other Jurisdiction  
of Incorporation)

**001-38105**  
(Commission File Number)

**90-1890354**  
(IRS Employer  
Identification No.)

**3000 El Camino Real, Bldg. 4, Suite 200**  
**Palo Alto, CA**  
(Address of Principal Executive Offices)

**94306**  
(Zip Code)

Registrant's telephone number, including area code: **(650) 507-0669**

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.0001 per share	ATNF	The NASDAQ Stock Market LLC
Warrants to purchase shares of Common Stock	ATNFW	The NASDAQ Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

**Item 8.01 Other Events.**

On July 31, 2023, 180 Life Sciences Corp. (the "Company") filed a press release announcing the filing of a provisional patent describing the combination of CBD with GLP-1 agonists to suppress appetite. A copy of the press release is included herewith as [Exhibit 99.1](#) and the information in the press release is incorporated by reference into this [Item 8.01](#).

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

Exhibit Number	Exhibit Description
99.1	<a href="#">Press Release, dated July 31, 2023</a>
104	Cover Page Interactive Data File (embedded within Inline XBRL document).

**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 hereunto

duly authorized.

Date: July 31, 2023

**180 LIFE SCIENCES CORP.**

By: /s/ James N. Woody, M.D., Ph.D.  
Name: James N. Woody, M.D., Ph.D.  
Title: Chief Executive Officer

# 180 Life Sciences Corp. Announces the Filing of a Provisional Patent Describing the Combination of CBD With GLP-1 Agonists to Suppress Appetite

PALO ALTO, Calif., July 31, 2023 -- 180 Life Sciences Corp. (NASDAQ: ATNF) (“180LS” or the “Company”), today announced the filing of a provisional patent describing the novel combination of Cannabidiol, usually abbreviated CBD, or an analog thereof, with glucagon related peptide-1 (GLP-1) agonists to address the problem of obesity and weight management. Co-administration of CBD, a known appetite suppressant and antiemetic, might be expected both to limit the deleterious side effects and lower the effective dosage of the GLP-1 agonists.

CBD has been shown to reduce inflammation and stimulate satiety, but establishing the details of the mode of action has been hampered by CBD binding over 50 different biological receptors. Consequently, we believe the scientific community has assumed the clinical benefits arise from a summation of weak stimulations of a spectrum of molecular pathways, rather than a single, critical biological signal. However, the recent clinical success of GLP-1 agonists in stimulating satiety and resultant weight reduction in patients with type 2 diabetes led 180LS scientists to hypothesize that CBD and GLP-1 might stimulate a common therapeutic pathway. The dramatically different structures of the two drugs make binding a common receptor unlikely, but we speculate that the two compounds could stimulate a common neurological pathway between the gut and the brain. GLP-1 signals satiety to the brain through stimulation of specific GLP-1 receptors expressed on the afferent arm of the vagus nerve. Scientists at 180 Life Sciences plan to collaborate with neurological experts to investigate whether cannabidiol (CBD) stimulates satiety through a neural pathway involving the vagus nerve. Negotiations are currently underway with third party scientists for a research collaboration to design and execute testing of our theory as described following, of which there can be no assurance.

This research collaboration is designed to determine whether CBD and GLP-1 stimulate a common signal for satiety to the brain. If so, CBD may represent a significantly less expensive alternative with fewer side effects than GLP-1 agonists for weight reduction. 180LS has licensed patents, based on the work of the late Dr. Mechoulam, (a pioneer of CBD chemistry at Hebrew University in Israel), that describe novel synthetic CBD compounds which could induce appetite suppression and be therapeutic for obesity and weight management.

“We are excited about the opportunity to collaborate with scientists who are experts in vagus nerve signaling,” said Dr. James Woody, CEO of 180 Life Sciences Corp., who continued, “We expect, if the hypothesis is correct, this research could provide support to proceed to human clinical trials. Our Chief Scientific Officer, Dr. Jonathan Rothbard, was involved in the Amylin discovery work of the GLP-1 pathway and has extensive scientific knowledge of how synthetic CBD compounds might induce satiety through stimulating the vagus nerve.”

## About 180 Life Sciences Corp.

180 Life Sciences Corp. is a clinical-stage biotechnology company driving ground-breaking studies into clinical programs which are seeking to address major unmet medical needs. The Company’s focus is a novel program to treat several inflammatory disorders using anti-TNF (tumor necrosis factor) biologics. In addition, the Company is exploring the anti-inflammatory and analgesic properties of synthetic CBD compounds, that also might be effective in appetite suppression.

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## Forward-Looking Statements

This press release includes “forward-looking statements”, including information about management’s view of the Company’s future expectations, plans and prospects, within the safe harbor provisions provided under federal securities laws, including under The Private Securities Litigation Reform Act of 1995 (the “Act”). Words such as “expect,” “estimate,” “project,” “budget,” “forecast,” “anticipate,” “intend,” “plan,” “may,” “will,” “could,” “should,” “believes,” “predicts,” “potential,” “continue” and similar expressions are intended to identify such forward-looking statements. These forward-looking statements involve significant risks and uncertainties that could cause the actual results to differ materially from the expected results and, consequently, you should not rely on these forward-looking statements as predictions of future events. These forward-looking statements and factors that may cause such differences include, without limitation, risks regarding the outcome of the PK study discussed above, the timing and costs thereof, and the ability to obtain sufficient participants; our ability to commercialize PNL, if proven successful for treatment in trials; risks regarding whether the administrative processes required for the issuance of patents will be completed in a timely manner or at all, whether patents, if issued, will provide sufficient protection and market exclusivity for the Company, whether any patents held by the Company may be challenged, invalidated, infringed or circumvented by third parties; events that could interfere with the continued validity or enforceability of a patent; the Company’s ability generally to maintain adequate patent protection and successfully enforce patent claims against third parties; the timing of, outcome of, and results of, clinical trials statements regarding the timing of our planned marketing authorization application (MAA) submission to the UK Medicines and Healthcare products Regulatory Agency (MHRA), our ability to obtain approval and acceptance thereof, the willingness of MHRA to review such MAA, and our ability to address outstanding comments and questions from the MHRA; statements about the ability of our clinical trials to demonstrate safety and efficacy of our product candidates, and other positive results; the uncertainties associated with the clinical development and regulatory approval of 180 Life Sciences’ drug candidates, including potential delays in the enrollment and completion of clinical trials, closures of such trials prior to enrolling sufficient participants in connection therewith, issues raised by the U.S. Food and Drug Administration (FDA), the MHRA and the European Medicines Agency (EMA); the ability of the Company to persuade regulators that chosen endpoints do not require further validation; timing to complete required studies and trials, and timing to obtain governmental approvals; the accuracy of simulations and the ability to reproduce the outcome of such simulations in real world trials; 180 Life Sciences’ reliance on third parties to conduct its clinical trials, enroll patients, and manufacture its preclinical and clinical drug supplies; the ability to come to mutually agreeable terms with such third parties and partners, and the terms of such agreements; estimates of patient populations for 180 Life Sciences planned products; unexpected adverse side effects or inadequate therapeutic efficacy of drug candidates that could limit approval and/or commercialization, or that could result in recalls or product liability claims; 180 Life Sciences’ ability to fully comply with numerous federal, state and local laws and regulatory requirements, as well as rules and regulations outside the United States, that apply to its product development activities; the timing of filing, the timing of governmental review, and outcome of, planned Investigational New Drug (IND) applications for drug candidates; current negative operating cash flows and a need for additional funding to finance our operating plans; the terms of any further financing, which may be highly dilutive and may include onerous terms, increases in interest rates which may make borrowing more expensive and increased inflation which may negatively affect costs, expenses and returns; statements relating to expectations regarding future agreements relating to the supply of materials and license and commercialization of products; the availability and cost of materials required for trials; the risk that initial drug results are not predictive of future results or will not be able to be replicated in clinical trials or that such drugs selected for clinical development will not be successful; challenges and uncertainties inherent in product research and development, including the uncertainty of clinical success and of obtaining regulatory approvals; uncertainty of commercial success; the inherent risks in early stage drug development including demonstrating efficacy; development time/cost and the regulatory approval process; the progress of our clinical trials; our ability to find and enter into agreements with potential partners; our ability to attract and retain key personnel; changing market and economic conditions; our ability to produce acceptable batches of future products in sufficient quantities; unexpected manufacturing defects; manufacturing difficulties and delays; competition, including technological advances, new products and patents attained by competitors; challenges to patents; product efficacy or safety concerns resulting in product recalls or regulatory action; changes in behavior and spending patterns of purchasers of health care products and services; changes to applicable laws and regulations, including global health care reforms; expectations with respect to future performance, growth and anticipated acquisitions; the continued listing of the Company’s securities on The NASDAQ Stock Market; expectations regarding the capitalization, resources and ownership structure of the Company; expectations with respect to future performance, growth and anticipated acquisitions; the ability of the Company to execute its plans to develop and market new drug products and the timing and costs of these development programs; estimates of the size of the markets for its potential drug products; the outcome of current litigation involving the Company; potential future litigation involving the Company or the validity or enforceability of the intellectual property of the Company; global economic conditions; geopolitical events and regulatory changes; the expectations, development plans and anticipated timelines for the Company’s drug candidates, pipeline and programs, including collaborations with third parties; access to additional financing, and the potential lack of such financing; and the Company’s ability to raise funding in the future and the terms of such funding; and the effect of rising interest rates and inflation, and

economic downturns and recessions. These risk factors and others are included from time to time in documents the Company files with the Securities and Exchange Commission, including, but not limited to, its Form 10-Ks, Form 10-Qs and Form 8-Ks, and including the Annual Report on Form 10-K for the year ended December 31, 2022, and Quarterly Report on Form 10-Q for the quarter ended March 31, 2023, and future SEC filings. These reports and filings are available at [www.sec.gov](http://www.sec.gov) and are available for download, free of charge, soon after such reports are filed with or furnished to the SEC, on the “Investors”, “SEC Filings”, “All SEC Filings” page of our website at [www.180lifesciences.com](http://www.180lifesciences.com). All subsequent written and oral forward-looking statements concerning the Company, the results of the Company’s clinical trial results and studies or other matters and attributable to the Company or any person acting on its behalf are expressly qualified in their entirety by the cautionary statements above. Readers are cautioned not to place undue reliance upon any forward-looking statements, which speak only as of the date made, including the forward-looking statements included in this press release, which are made only as of the date hereof. The Company cannot guarantee future results, levels of activity, performance or achievements. Accordingly, you should not place undue reliance on these forward-looking statements. The Company does not undertake or accept any obligation or undertaking to release publicly any updates or revisions to any forward-looking statement to reflect any change in its expectations or any change in events, conditions, or circumstances on which any such statement is based, except as otherwise provided by law.

Investors:

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