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

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**FORM S-8**  
**REGISTRATION STATEMENT**  
*UNDER*  
**THE SECURITIES ACT OF 1933**

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**SELECTA BIOSCIENCES, INC.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction  
of incorporation or organization)

**26-1622110**  
(I.R.S. Employer  
Identification No.)

**65 Grove Street**  
**Watertown, Massachusetts**  
(Address of principal executive offices)

**02472**  
(Zip code)

**Selecta Biosciences, Inc. 2016 Incentive Award Plan**  
**Selecta Biosciences, Inc. 2016 Employee Stock Purchase Plan**  
(Full title of the plan)

**Carsten Brunn, Ph.D.**  
**President and Chief Executive Officer**  
**Selecta Biosciences, Inc.**  
**65 Grove Street**  
**Watertown, Massachusetts 02472**  
(Name and address of agent for service)

**(617) 923-1400**  
(Telephone number, including area code, of agent for service)

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*Copies to:*

**Brian K. Rosenzweig**  
**Covington & Burling LLP**  
**The New York Times Building**  
**620 Eighth Avenue**  
**New York, New York 10018**  
**(212) 841-1000**

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company,” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer   
Non-accelerated filer

Accelerated filer   
Smaller reporting company   
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 7(a)(2)(B) of the Securities Act.

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## EXPLANATORY NOTE

This registration statement on Form S-8 (the "Registration Statement") is being filed for the purpose of registering an additional 1,530,424 shares of common stock, par value \$0.0001 per share (the "Common Stock"), of Selecta Biosciences, Inc. (the "Registrant") to be issued pursuant to the Registrant's 2016 Employee Stock Purchase Plan (the "ESPP") and an additional 6,121,697 shares of the Registrant's Common Stock to be issued pursuant to the Registrant's 2016 Incentive Award Plan (the "Incentive Plan").

## PART II

### INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

#### Item 3. Incorporation of Documents by Reference

The following documents, which have been filed by the Registrant with the Securities and Exchange Commission (the "Commission"), are incorporated herein by reference:

- The Registrant's definitive proxy statement on [Schedule 14A](#) for the 2023 annual meeting of stockholders, filed with the Commission on April 28, 2023;
- The Registrant's Annual Report on [Form 10-K](#) for the year ended December 31, 2022, filed with the Commission on March 2, 2023;
- The Registrant's Quarterly Reports on Form 10-Q for the quarters ended March 31, 2023 and June 30, 2023, filed with the Commission on [May 4, 2023](#) and [August 17, 2023](#), respectively;
- The Registrant's Current Reports on Form 8-K filed with the Commission on [January 9, 2023](#), [March 21, 2023](#), [April 4, 2023](#), and [June 16, 2023](#); and
- The description of the Registrant's Common Stock contained in [Exhibit 4.11](#) to the Registrant's Annual Report on Form 10-K, filed with the Commission on March 2, 2023, and any amendment or report filed with the Commission for the purpose of updating such description; and
- The Registrant's Registration Statements on Form S-8 (File Nos. [333-212215](#), [333-224109](#), [333-239075](#), [333-256061](#) and [333-264691](#)) filed with the Securities and Exchange Commission, relating to the ESPP and the Incentive Plan.

All documents filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Securities Exchange Act of 1934, as amended, on or after the date of this Registration Statement and prior to the filing of a post-effective amendment to this Registration Statement that indicates that all securities offered have been sold or that deregisters all securities then remaining unsold shall be deemed to be incorporated by reference in this Registration Statement and to be part hereof from the date of filing of such documents; *provided, however*, that documents or information deemed to have been furnished and not filed in accordance with the rules of the SEC shall not be deemed incorporated by reference into this Registration Statement. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any subsequently filed document which also is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

## Item 8. Exhibits

<u>Exhibit No.</u>	<u>Description</u>
<a href="#"><u>4.1(a)</u></a>	<a href="#"><u>Restated Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K (File No. 001-37798) filed on June 29, 2016)</u></a>
<a href="#"><u>4.1(b)</u></a>	<a href="#"><u>Certificate of Amendment to the Restated Certificate of Incorporation of the Registrant, dated June 21, 2022 (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K (File No. 001-37798) filed on June 21, 2022)</u></a>
<a href="#"><u>4.2</u></a>	<a href="#"><u>Amended and Restated By-laws of the Registrant dated August 19, 2022 (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K (File No. 001-37798) filed on August 22, 2022)</u></a>
<a href="#"><u>5.1+</u></a>	<a href="#"><u>Opinion of Covington &amp; Burling LLP, counsel to the Registrant</u></a>
<a href="#"><u>23.1+</u></a>	<a href="#"><u>Consent of Ernst &amp; Young LLP, Independent Registered Public Accounting Firm</u></a>
<a href="#"><u>23.2 +</u></a>	<a href="#"><u>Consent of Covington &amp; Burling LLP (included in Exhibit 5.1)</u></a>
<a href="#"><u>24.1+</u></a>	<a href="#"><u>Power of attorney (included on signature pages below)</u></a>
<a href="#"><u>99.1</u></a>	<a href="#"><u>Selecta Biosciences, Inc. 2016 Incentive Award Plan (incorporated by reference to Exhibit 10.2 to the Registrant's Registration Statement on Form S-1 (Reg. No. 333-2111555) filed on June 8, 2016)</u></a>
<a href="#"><u>99.2</u></a>	<a href="#"><u>Selecta Biosciences, Inc. 2016 Employee Stock Purchase Plan (incorporated by reference to Exhibit 10.3 to the Registrant's Registration Statement on Form S-1 (Reg. No. 333-2111555) filed on June 8, 2016)</u></a>
<a href="#"><u>107.1+</u></a>	<a href="#"><u>Filing Fee Table</u></a>

+ Filed herewith

**SIGNATURES**

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Watertown, Commonwealth of Massachusetts, on this 17th day of August, 2023.

**SELECTA BIOSCIENCES, INC.**

By: /s/ Carsten Brunn, Ph.D.

Carsten Brunn, Ph.D.

President and Chief Executive Officer, and Director

## POWER OF ATTORNEY

We, the undersigned officers and directors of Selecta Biosciences, Inc. (the “Company”), hereby severally constitute and appoint the Chief Executive Officer of the Company, who is currently Carsten Brunn, Ph.D., and the Chief Financial Officer of the Company, who is currently Blaine Davis, and each of them singly (with full power to each of them to act alone), our true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution in each of them for him and in his name, place and stead, and in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as full to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<b>Signature</b>	<b>Title</b>	<b>Date</b>
<u>/s/ Carsten Brunn, Ph.D.</u> Carsten Brunn, Ph.D.	President and Chief Executive Officer, and Director (Principal Executive Officer)	August 17, 2023
<u>/s/ Blaine Davis</u> Blaine Davis	Chief Financial Officer (Principal Financial and Accounting Officer)	August 17, 2023
<u>/s/ Timothy C. Barabe</u> Timothy C. Barabe	Director	August 17, 2023
<u>/s/ Carrie S. Cox</u> Carrie S. Cox	Chairman of the Board	August 17, 2023
<u>/s/ Nishan de Silva, M.D.</u> Nishan de Silva, M.D.	Director	August 17, 2023
<u>/s/ Scott D. Myers</u> Scott D. Myers	Director	August 17, 2023
<u>/s/ Aymeric Sallin</u> Aymeric Sallin	Director	August 17, 2023
<u>/s/ Timothy Springer, Ph.D.</u> Timothy Springer, Ph.D.	Director	August 17, 2023
<u>/s/ Patrick Zenner</u> Patrick Zenner	Director	August 17, 2023

## COVINGTON

BEIJING BOSTON BRUSSELS DUBAI FRANKFURT  
JOHANNESBURG LONDON LOS ANGELES NEW YORK  
PALO ALTO SAN FRANCISCO SEOUL SHANGHAI WASHINGTON

Covington & Burling LLP  
The New York Times Building  
620 Eighth Avenue  
New York, NY 10018-1405  
T +1 212 841 1000

August 17, 2023

Selecta Biosciences, Inc.  
65 Grove Street  
Watertown, MA 02472

Ladies and Gentlemen:

We have acted as counsel to Selecta Biosciences, Inc., a Delaware corporation (the “Company”), in connection with the registration by the Company under the Securities Act of 1933, as amended (the “Act”), of 7,652,121 shares of the Company’s common stock, par value \$0.0001 per share (the “Shares”), issuable under the Company’s 2016 Incentive Award Plan (the “Incentive Plan”) and under the Company’s 2016 Employee Stock Purchase Plan (the “ESPP”), pursuant to the registration statement on Form S-8 being filed with the Securities and Exchange Commission on the date hereof (such registration statement is referred to herein as the “Registration Statement”).

We have reviewed such corporate records, certificates and other documents, and such questions of law, as we have considered necessary or appropriate for the purposes of this opinion. We have assumed that all signatures are genuine, that all documents submitted to us as originals are authentic and that all copies of documents submitted to us conform to the originals.

We have relied as to certain matters on information obtained from public officials, officers of the Company and other sources believed by us to be responsible.

Based upon the foregoing, we are of the opinion that the Shares have been duly authorized and, when issued and paid for in accordance with the terms of the Company’s Restated Certificate of Incorporation, the Incentive Plan and the ESPP and any individual agreements relating to such Shares, will be validly issued, fully paid and nonassessable.

We are members of the bar of the State of New York. We do not express any opinion herein on any laws other than the General Corporation Law of the State of Delaware and reported judicial decisions interpreting such law.

We hereby consent to the filing of this opinion as Exhibit 5.1 to the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act.

Very truly yours,

/s/ Covington &amp; Burling LLP

**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the 2016 Incentive Award Plan and the 2016 Employee Stock Purchase Plan of Selecta Biosciences, Inc. of our report dated March 2, 2023, with respect to the consolidated financial statements of Selecta Biosciences, Inc. included in its Annual Report (Form 10-K) for the year ended December 31, 2022, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

Boston, Massachusetts  
August 17, 2023



## CALCULATION OF FILING FEE TABLE

**Form S-8**  
(Form Type)

**Selecta Biosciences, Inc.**  
(Exact Name of Registrant as Specified in its Charter)

**Table 1 - Newly Registered Securities**

Security Type	Security Class Title	Fee Calculation Rule	Amount to be Registered <sup>(1)</sup>	Proposed Maximum Offering Price Per Share	Proposed Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee
Equity	Common Stock, par value \$0.0001 per share, to be issued under the Registrant's 2016 Employee Stock Purchase Plan	Rules 457(c) and 457(h)	1,530,424 <sup>(2)</sup>	\$1.04 <sup>(3)</sup>	\$1,591,640.96	\$110.20 per \$1,000,000	\$175.40
Equity	Common Stock, par value \$0.0001 per share, to be issued under the Registrant's 2016 Incentive Award Plan	Rules 457(c) and 457(h)	6,121,697 <sup>(4)</sup>	\$1.04 <sup>(3)</sup>	\$6,366,564.88	\$110.20 per \$1,000,000	\$701.60
Total Offering Amounts					\$7,958,205.84		\$877.00
Total Fee Offsets <sup>(5)</sup>							\$0.00
Net Fee Due							\$877.00

- (1) In accordance with Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), this registration statement (this "Registration Statement") shall be deemed to cover any additional securities that may from time to time be offered or issued under the Selecta Biosciences, Inc. 2016 Employee Stock Purchase Plan ("ESPP") and the Selecta Biosciences, Inc. 2016 Incentive Award Plan (the "Incentive Plan") to prevent dilution resulting from stock splits, stock dividends or similar transactions.
- (2) Consists of 1,530,424 shares of the Registrant's common stock, par value \$0.0001 per share (the "Common Stock") that may become issuable under the ESPP pursuant to its terms.
- (3) Estimated solely for the purpose of calculating the registration fee pursuant to Rules 457(c) and 457(h) of the Securities Act and based upon the average of the high and low prices of the Registrant's Common Stock as reported on the Nasdaq Global Market on August 15, 2023.
- (4) Consists of 6,121,697 shares of Common Stock that may become issuable under the Incentive Plan pursuant to its terms.
- (5) The Registrant does not have any fee offsets.