
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934
(AMENDMENT NO.)*

Ayala Pharmaceuticals, Inc.

(Name of Issuer)

Common stock, \$0.01 par value per share

(Title of Class of Securities)

05465V108

(CUSIP Number)

December 31, 2020

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see the Notes*).

1. Names of Reporting Persons
Novartis Institutes for BioMedical Research, Inc.

2. Check the Appropriate Box if a Member of a Group (see instructions)

(a)
(b)

3. SEC USE ONLY

4. Citizenship or Place of Organization
Delaware

Number of Shares Beneficially Owned by Each Reporting Person With:	5. Sole Voting Power 0
	6. Shared Voting Power 698,777
	7. Sole Dispositive Power 0
	8. Shared Dispositive Power 698,777

9. Aggregate Amount Beneficially Owned by Each Reporting Person
698,777

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see instructions)

11. Percent of Class Represented by Amount in Row 9
5.5% (1)

12. Type of Reporting Person (see instructions)
CO

(1) This calculation is based on 12,778,002 shares of common stock, par value \$0.01 per share ("Common Stock"), outstanding as of November 1, 2020, as reported by the Issuer in its Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2020, filed by the Issuer with the Securities and Exchange Commission ("SEC") on November 16, 2020.

1.	Names of Reporting Persons Novartis AG
2.	Check the Appropriate Box if a Member of a Group (see instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY
4.	Citizenship or Place of Organization Switzerland
5.	Sole Voting Power 0
Number of Shares Beneficially Owned by Each Reporting Person With:	6. Shared Voting Power 698,777
	7. Sole Dispositive Power 0
	8. Shared Dispositive Power 698,777
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 698,777
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see instructions) <input type="checkbox"/>
11.	Percent of Class Represented by Amount in Row 9 5.5% (1)
12.	Type of Reporting Person (see instructions) CO, HC

(1) This calculation is based on 12,778,002 shares of Common Stock outstanding as of November 1, 2020, as reported by the Issuer in its Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2020, filed by the Issuer with the SEC on November 16, 2020.

CUSIP No. 05465V108

Item 1(a). Name of Issuer:

Ayala Pharmaceuticals, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

Oppenheimer 4, Rehovot 7670104, Israel

Item 2(a). Name of Person Filing:

This statement is filed on behalf of the following persons with respect to the shares of Common Stock of the Issuer:

- (i) Novartis Institutes for BioMedical Research, Inc., a Delaware corporation ("NIBRI"), with respect to shares held by it; and
- (ii) Novartis AG, a Swiss corporation ("Novartis"), as the publicly-owned parent of NIBRI, with respect to the shares held by NIBRI.

The foregoing persons are hereinafter referred to collectively as the "Reporting Persons."

Item 2(b). Address of Principal Business Office or, if none, Residence:

The address of the principal business office of NIBRI is 250 Massachusetts Avenue, Cambridge, MA 02139. The address of the principal business office of Novartis is Lichtstrasse 35, 4056 Basel, Switzerland.

Item 2(c). Citizenship:

NIBRI is a corporation organized under the laws of Delaware and is an indirect wholly-owned subsidiary of Novartis.

Novartis is a corporation organized under the laws of Switzerland and is the publicly-owned parent of NIBRI.

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.01 per share.

Item 2(e). CUSIP Number:

05465V108

Item 3. If this statement is filed pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o);
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
- (k) Group, in accordance with §240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution: _____

Item 4. Ownership

(a) Amount Beneficially Owned:

NIBRI is the beneficial owner of 698,777 shares of Common Stock of the Issuer. As the indirect parent of NIBRI, Novartis may be deemed to beneficially own these securities.

(b) Percent of Class:

See the percentages as set forth in row 11 of the cover sheet to this Schedule 13G for each Reporting Person, which information is incorporated herein by reference.

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote: Not applicable as to each Reporting Person.

(ii) Shared power to vote or to direct the vote: please see row 6 of the cover sheet to this Schedule 13G for each Reporting Person, which information is incorporated herein by reference.

(iii) Sole power to dispose or to direct the disposition of: Not applicable as to each Reporting Person.

(iv) Shared power to dispose or to direct the disposition of: please see row 8 of the cover sheet to this Schedule 13G for each Reporting Person, which information is incorporated herein by reference.

Item 5 . Ownership of 5 Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following .

Item 6. Ownership of More than 5 Percent on Behalf of Another Person

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not Applicable

Item 8. Identification and Classification of Members of the Group

Not Applicable

Item 9. Notice of Dissolution of a Group

Not Applicable

Item 10. Certification

Not Applicable

Signatures

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 4, 2021

NOVARTIS INSTITUTES FOR
BIO MEDICAL RESEARCH, INC.

/s/ Scott A. Brown

Name: Scott A. Brown

Title: General Counsel and Chief Administrative Officer

NOVARTIS AG

/s/ Christian Rehm

Name: Christian Rehm

Title: Authorized Signatory

/s/ Daniel Weiss

Name: Daniel Weiss

Title: Authorized Signatory

EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Exhibit Description</u>
1	Evidence of Signatory Authority
2	Joint Filing Agreement

EXHIBIT 1

EVIDENCE OF SIGNATORY AUTHORITY

Excerpt from Commercial Register of Novartis AG

Identification number	Legal status	Entry	Cancelled	Carried CH-270.3.002.061-2 from: CH-270.3.002.061-2/a on:	1
CHE-103.867.266	Limited or Corporation	01.03.1996			
All data					
In	Ca	Business name	Ref	Legal seat	
1		Novartis AG	1	Basel	
1		(Novartis SA) (Novartis Inc.)			
CHE-103.867.266		Novartis AG		Basel	3
All data					
In	Mo	Ca	Personal Data	Function	Signature
1			Rehm, Christian Jakob, von Illanz/Glion, in MuttENZ		joint signature at two
CHE-103.867.266		Novartis AG		Basel	3
All data					
In	Mo	Ca	Personal Data	Function	Signature
1			Weiss, Daniel Andreas, von Basel, in Biel-Benken		joint signature at two

EXHIBIT 2

Joint Filing Agreement

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a Statement on Schedule 13G (including amendments thereto) with respect to the common stock, \$0.01 par value per share, of Ayala Pharmaceuticals, Inc., a Delaware corporation, and further agree that this Joint Filing Agreement shall be included as an exhibit to such joint filings.

The undersigned further agree that each party hereto is responsible for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such party contained therein; provided that no party is responsible for the completeness or accuracy of the information concerning any other filing party, unless such party knows or has reason to believe that such information is inaccurate.

This Joint Filing Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original instrument, but all of such counterparts together shall constitute one agreement.

In evidence thereof, the undersigned, being duly authorized, hereby execute this Joint Filing Agreement as of February 4, 2021.

NOVARTIS INSTITUTES FOR
BIO MEDICAL RESEARCH, INC.

/s/ Scott A. Brown

Name: Scott A. Brown

Title: General Counsel and Chief Administrative Officer

NOVARTIS AG

/s/ Christian Rehm

Name: Christian Rehm

Title: Authorized Signatory

/s/ Daniel Weiss

Name: Daniel Weiss

Title: Authorized Signatory
