BIOCRYST PHARMACEUTICALS INC Form SC 13G February 14, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No.)*

BioCryst Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock, par value \$0.01 per share

(Title of Class of Securities)

09058V103

(CUSIP Number)

December 31, 2018

(Date of Event Which Requires Filing of this Statement)

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

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

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).

^{*}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.

1.	Name of Reporting Persons		
	Venrock Healthcare Capital	Venrock Healthcare Capital Partners II, L.P.	
2.	Check the Appropriate Box i		Instructions)
	(a)	x(1)	
	(b)	0	
3.	SEC Use Only		
4.	Citizenship or Place of Organ Delaware	nization	
N. I. C	5.		Sole Voting Power 0
Number of			
Shares	6.		Shared Voting Power
Beneficially Owned by			6,310,255(2)
Each	7.		Sole Dispositive Power
Reporting	7.		0
Person With:			Ü
Terson Willin	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficia 6,310,255(2)	ally Owned by Each Reportin	g Person
10.	Check if the Aggregate Amo	ount in Row (9) Excludes Cer	tain Shares (See Instructions) o
11.	Percent of Class Represented 5.8%(3)	l by Amount in Row (9)	
12.	Type of Reporting Person (SPN)	ee Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Persons VHCP Co-Investment Holdings II, LLC		
2.	Check the Appropriate B (a) (b)	Sox if a Member of a Group (S x(1) o	ee Instructions)
3.	SEC Use Only		
4.	Citizenship or Place of C Delaware	Organization	
N. 1. C	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 6,310,255(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 6,310,255(2)		
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		
11.	Percent of Class Represented by Amount in Row (9) 5.8%(3)		
12.	Type of Reporting Person (See Instructions) OO		

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Persons Venrock Healthcare Capital Partners III, L.P.		
2.	Check the Appropriate Box if a Member of a Group (See Instructions)		
	(a) (b)	x(1) o	
3.	SEC Use Only		
4.	Citizenship or Place of Delaware	f Organization	
Number of	5.		Sole Voting Power 0
Shares	6.		Shared Voting Power
Beneficially Owned by	0.		6,310,255(2)
Each	7.		Sole Dispositive Power
Reporting Person With:			0
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 6,310,255(2)		
10.	Check if the Aggregate	e Amount in Row (9) Exclu	ndes Certain Shares (See Instructions) o
11.	Percent of Class Repres 5.8%(3)	esented by Amount in Row	(9)
12.	Type of Reporting Per PN	rson (See Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Person VHCP Co-Investment Ho		
2.	Check the Appropriate Bo (a) (b)	ox if a Member of a Group (So x(1) o	ee Instructions)
3.	SEC Use Only		
4.	Citizenship or Place of Or Delaware	ganization	
Number of	5.		Sole Voting Power 0
Shares Beneficially Owned by	6.		Shared Voting Power 6,310,255(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 6,310,255(2)		
10.	Check if the Aggregate Ar	mount in Row (9) Excludes C	Certain Shares (See Instructions)
11.	Percent of Class Represented by Amount in Row (9) 5.8%(3)		
12.	Type of Reporting Person OO	(See Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Persons VHCP Management II, LLC		
2.	Check the Appropriate Box if	a Member of a Group (See	Instructions)
	(a)	x(1)	
	(b)	0	
3.	SEC Use Only		
4.	Citizenship or Place of Organ Delaware	ization	
	5.		Sole Voting Power
Number of			
Shares	6.		Shared Voting Power
Beneficially			6,310,255(2)
Owned by			
Each	7.		Sole Dispositive Power
Reporting			0
Person With:	0		al Ini ii n
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficia 6,310,255(2)	lly Owned by Each Reportin	g Person
10.	Check if the Aggregate Amou	unt in Row (9) Excludes Cert	tain Shares (See Instructions) o
11.	Percent of Class Represented 5.8%(3)	by Amount in Row (9)	
12.	Type of Reporting Person (Se OO	ee Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer's common stock outstanding as of October 31, 2018, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Persons VHCP Management III, LLC		
2.	Check the Appropriate Box if a Member of a Group (See Instructions)		
	(a)	x(1)	
	(b)	0	
3.	SEC Use Only		
4.	Citizenship or Place of Organiz Delaware	ation	
	5.		Sole Voting Power 0
Number of			
Shares	6.		Shared Voting Power
Beneficially			6,310,255(2)
Owned by Each	_		G 1 D: D
	7.		Sole Dispositive Power
Reporting Person With:			0
cison with.	8.		Chanad Diamogitiva Davvan
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 6,310,255(2)		
10.	Check if the Aggregate Amoun	t in Row (9) Excludes Certa	ain Shares (See Instructions)
11.	Percent of Class Represented by 5.8%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See OO	Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Persons Shah, Nimish		
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See In x(1) 0	nstructions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiz United States	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 6,310,255(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Beneficially 6,310,255(2)	Owned by Each Reporting	Person
10.	Check if the Aggregate Amoun	t in Row (9) Excludes Certa	in Shares (See Instructions) o
11.	Percent of Class Represented by 5.8%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See IN	Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

1.	Name of Reporting Persons Koh, Bong		
2.	Check the Appropriate Box	if a Member of a Group (S	ee Instructions)
	(a)	x(1)	
	(b)	0	
3.	SEC Use Only		
4.	Citizenship or Place of Orga United States	anization	
	5.		Sole Voting Power 0
Number of			
Shares	6.		Shared Voting Power
Beneficially Owned by			6,310,255(2)
Each	7.		Sole Dispositive Power
Reporting	,.		0
Person With:			O .
	8.		Shared Dispositive Power 6,310,255(2)
9.	Aggregate Amount Benefici 6,310,255(2)	ially Owned by Each Repor	rting Person
10.	Check if the Aggregate Ame	ount in Row (9) Excludes (Certain Shares (See Instructions) o
11.	Percent of Class Represente 5.8%(3)	d by Amount in Row (9)	
12.	Type of Reporting Person (SIN	See Instructions)	

⁽¹⁾ Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, VHCP Management II, LLC, VHCP Management III, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G.

⁽²⁾ Consists of 2,311,934 shares owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares owned by VHCP Co-Investment Holdings III, LLC.

This percentage is calculated based upon 109,641,044 shares of the Issuer s common stock outstanding as of October 31, 2018, as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

CUSIP No. 09058V103

Introductory Note: This Schedule 13G is filed on behalf of Venrock Healthcare Capital Partners II, L.P., a limited partnership organized under the laws of the State of Delaware (VHCP II LP), VHCP Co-Investment Holdings II, LLC, a limited liability company organized under the laws of the State of Delaware (VHCP Co-Investment II), Venrock Healthcare Capital Partners III, L.P., a limited partnership organized under the laws of the State of Delaware (VHCP III LP), VHCP Co-Investment Holdings III, LLC, a limited liability company organized under the laws of the State of Delaware (VHCP Co-Investment III), VHCP Management II, LLC, a limited liability company organized under the laws of the State of Delaware (VHCP Management III), VHCP Management III, LLC, a limited liability company organized under the laws of the State of Delaware (VHCP Management III and collectively with VHCP II LP, VHCP Co-Investment II, VHCP III LP, VHCP Co-Investment III and VHCP Management III, the Venrock Entities), Nimish Shah (Shah) and Bong Koh (Koh) in respect of the common stock of BioCryst Pharmaceuticals, Inc.

Item 1.		
	(a)	Name of Issuer
		BioCryst Pharmaceuticals, Inc.
	(b)	Address of Issuer s Principal Executive Offices
		4505 Emperor Boulevard, Suite 200
		Durham, NC 27703
Item 2.		
	(a)	Name of Person Filing
		Venrock Healthcare Capital Partners II, L.P.
		VHCP Co-Investment Holdings II, LLC
		Venrock Healthcare Capital Partners III, L.P.
		VHCP Co-Investment Holdings III, LLC
		VHCP Management II, LLC
		VHCP Management III, LLC

Nimish Shah

Bong Koh

New York Office:

(b)

(c)

(d)

7 Bryant Park	3340 Hillview Avenue	34 Farnsworth Street
23rd Floor	Palo Alto, CA 94304	3rd Floor
New York, NY 10018 Citizenship		Boston, MA 02210
	were organized in Delaware. T	the individuals are both United States
citizens.		
Title of Class of Securities		

Boston Office:

Address of Principal Business Office or, if none, Residence

Common Stock, par value \$0.01 per share

Palo Alto Office:

(e) CUSIP Number 09058V103

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: Not applicable

CUSIP No. 09058V103

Item 4. Ownership

(a) Amount Beneficially Owned as of December 31, 2018:

Venrock Healthcare Capital Partners	
II, L.P.	6,310,255(1)
VHCP Co-Investment Holdings II,	6,310,255
LLC	(1)
Venrock Healthcare Capital Partners	6,310,255
III, L.P.	(1)
VHCP Co-Investment Holdings III,	6,310,255
LLC	(1)
VHCP Management II, LLC	6,310,255(1)
VHCP Management III, LLC	6,310,255(1)
Nimish Shah	6,310,255(1)
Bong Koh	6,310,255(1)

(b) Percent of Class as of December 31, 2018:

Venrock Healthcare Capital Partners	
II, L.P.	5.8%
VHCP Co-Investment Holdings II,	5.8
LLC	%
Venrock Healthcare Capital Partners	5.8
III, L.P.	%
VHCP Co-Investment Holdings III,	5.8
LLC	%
VHCP Management II, LLC	5.8%
VHCP Management III, LLC	5.8%
Nimish Shah	5.8%
Bong Koh	5.8%

- (c) Number of shares as to which the person has, as of December 31, 2018:
 - (i) Sole power to vote or to direct the vote

Venrock Healthcare Capital Partners	
II, L.P.	0
VHCP Co-Investment Holdings II,	
LLC	0
Venrock Healthcare Capital Partners	
III, L.P.	0
VHCP Co-Investment Holdings III,	
LLC	0
VHCP Management II, LLC	0
VHCP Management III, LLC	0
Nimish Shah	0
Bong Koh	0

CUSIP No. 09058V103

(ii) Shared power to vote or to direct the vote

Venrock Healthcare Capital Partners II,	6,310,255	
L.P.	(1)	
VHCP Co-Investment Holdings II, LLC	6,310,255(1)	
Venrock Healthcare Capital Partners III,	6,310,255	
L.P.	(1)	
VHCP Co-Investment Holdings III, LLC	6,310,255(1)	
VHCP Management II, LLC	6,310,255(1)	
VHCP Management III, LLC	6,310,255(1)	
Nimish Shah	6,310,255(1)	
Bong Koh	6,310,255(1)	

(iii) Sole power to dispose or to direct the disposition of

Venrock Healthcare Capital Partners II,	
L.P.	0
VHCP Co-Investment Holdings II, LLC	0
Venrock Healthcare Capital Partners III,	
L.P.	0
VHCP Co-Investment Holdings III, LLC	0
VHCP Management II, LLC	0
VHCP Management III, LLC	0
Nimish Shah	0
Bong Koh	0

(iv) Shared power to dispose or to direct the disposition of

Venrock Healthcare Capital Partners II,	6,310,255
L.P.	(1)
VHCP Co-Investment Holdings II, LLC	6,310,255(1)
Venrock Healthcare Capital Partners III,	6,310,255
L.P.	(1)
VHCP Co-Investment Holdings III, LLC	6,310,255(1)
VHCP Management II, LLC	6,310,255(1)
VHCP Management III, LLC	6,310,255(1)
Nimish Shah	6,310,255(1)
Bong Koh	6,310,255(1)

⁽¹⁾ These shares are owned directly as follows: 2,311,934 shares are owned by Venrock Healthcare Capital Partners II, L.P., 937,230 shares are owned by VHCP Co-Investment Holdings II, LLC, 2,782,904 shares are owned by Venrock Healthcare Capital Partners III, L.P. and 278,187 shares are owned by VHCP Co-Investment Holdings III, LLC. VHCP Management II, LLC is the general partner of Venrock Healthcare Capital Partners II, L.P. and the manager of VHCP Co-Investment Holdings II, LLC. VHCP Management III, LLC is the general partner of Venrock Healthcare Capital Partners III, L.P. and the manager of VHCP Co-Investment Holdings III, LLC. Messrs. Shah and Koh are the managing members of VHCP Management II, LLC and VHCP Management III, LLC.

Item 5. Ownership of Five 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 five percent of the class of securities, check the following o.

Ownership of More than Five 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

CUSIP No. 09058V103

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under § 240.14a-11.

SIGNATURE

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.

Dated: February 14, 2019

Venrock Healthcare Capital Partners II, L.P.

Venrock Healthcare Capital Partners III, L.P.

VHCP Co-Investment Holdings III, LLC

VHCP Management III, LLC

By: VHCP Management II, LLC By: VHCP Management III, LLC

Its: General Partner Its: General Partner

By: /s/ David L. Stepp By: /s/ David L. Stepp

Name:David L. SteppName:David L. SteppIts:Authorized SignatoryIts:Authorized Signatory

VHCP Co-Investment Holdings II, LLC

By: VHCP Management II, LLC By: VHCP Management III, LLC

Its: Manager Its: Manager

By: /s/ David L. Stepp By: /s/ David L. Stepp

Name:David L. SteppName:David L. SteppIts:Authorized SignatoryIts:Authorized Signatory

VHCP Management II, LLC

By: /s/ David L. Stepp By: /s/ David L. Stepp

Name:David L. SteppName:David L. SteppIts:Authorized SignatoryIts:Authorized Signatory

Nimish Shah Bong Koh

By: /s/ David L. Stepp By: /s/ David L. Stepp

David L. Stepp, as attorney-in-fact David L. Stepp, as attorney-in-fact

CUSIP No. 09058V103

EXHIBITS

- A: Joint Filing Agreement
- B: Power of Attorney for Bong Koh (incorporated by reference to Exhibit B to Schedule 13G filed on March 28, 2016)
- C: Power of Attorney for Nimish Shah (incorporated by reference to Exhibit C of Schedule 13G/A filed on February 14, 2017)

EXHIBIT A

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 of BioCryst Pharmaceuticals, Inc. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

In evidence whereof, the undersigned have caused this Agreement to be executed on their behalf this 14th day of February, 2019.

Venrock Healthcare Capital Partners II, L.P.

Venrock Healthcare Capital Partners III, L.P.

VHCP Co-Investment Holdings III, LLC

VHCP Management III, LLC

By: VHCP Management II, LLC By: VHCP Management III, LLC

Its: General Partner Its: General Partner

By: /s/ David L. Stepp By: /s/ David L. Stepp

Name: David L. Stepp Name: David L. Stepp
Its: Authorized Signatory Its: Authorized Signatory

VHCP Co-Investment Holdings II, LLC

By: VHCP Management II, LLC By: VHCP Management III, LLC

Its: Manager Its: Manager

By: /s/ David L. Stepp By: /s/ David L. Stepp

Name:David L. SteppName:David L. SteppIts:Authorized SignatoryIts:Authorized Signatory

VHCP Management II, LLC

By: /s/ David L. Stepp By: /s/ David L. Stepp

Name:David L. SteppName:David L. SteppIts:Authorized SignatoryIts:Authorized Signatory

Nimish Shah Bong Koh

By: /s/ David L. Stepp By: /s/ David L. Stepp

David L. Stepp, as attorney-in-fact David L. Stepp, as attorney-in-fact