TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

ETAS ID: TM614969

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Fourth Amended and Restated Intellectual Property Security Agreement

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Akebia Therapeutics, Inc.		12/07/2020	Corporation: DELAWARE
Keryx Biopharmaceuticals, Inc.		12/07/2020	Corporation: DELAWARE

RECEIVING PARTY DATA

Name:	BIOPHARMA CREDIT PLC				
Street Address:	51 New North Road				
Internal Address:	C/O Beaufort House				
City:	Exeter EX4 4EP				
State/Country:	UNITED KINGDOM				
Entity Type:	Public Limited Company: ENGLAND AND WALES				

PROPERTY NUMBERS Total: 1

Property Type	Number	Word Mark				
Registration Number:	4956680	AURYXIA				

CORRESPONDENCE DATA

Fax Number: 2028874288

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2028874000

Email: dlee@akingump.com

David C. Lee **Correspondent Name:** Address Line 1: 2001 K Street N.W.

Address Line 2: Akin Gump Strauss Hauer & Feld LLP

Address Line 4: Washington, D.C. 20006

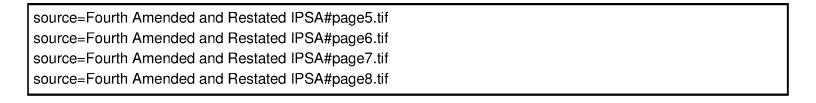
NAME OF SUBMITTER:	David C. Lee
SIGNATURE:	/David C. Lee/
DATE SIGNED:	12/17/2020

Total Attachments: 8

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> **TRADEMARK** REEL: 007137 FRAME: 0522

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This FOURTH AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of December 7, 2020, (this "Agreement") is made by AKEBIA THERAPEUTICS, INC. and KERYX BIOPHARMACEUTICALS, INC., (the "Grantors" and each a "Grantor"), in favor of BIOPHARMA CREDIT PLC (together with its successors and permitted assigns in such capacity, the "Collateral Agent") on behalf of Lenders and the other Secured Parties (as defined in the Loan Agreement referred to below).

WITNESSETH:

WHEREAS, pursuant to the Loan Agreement, dated as of November 11, 2019 (as the same may be amended, amended and restated, supplemented or otherwise modified from time to time, the "Loan Agreement"), by and among AKEBIA THERAPEUTICS, INC. ("Borrower"), KERYX BIOPHARMACEUTICALS, INC. (as an additional Credit Party), BIOPHARMA CREDIT PLC (as the "Collateral Agent"), BPCR LIMITED PARTNERSHIP (as a "Lender") and BIOPHARMA CREDIT INVESTMENTS V (MASTER) LP (as a "Lender"), each Lender has agreed to make extensions of credit to Borrower upon the terms and subject to the conditions set forth therein;

WHEREAS, each Grantor has agreed, pursuant to a Guaranty and Security Agreement dated as of November 25, 2019 in favor of the Collateral Agent for the benefit of Lenders and the other Secured Parties (as such agreement may be amended, amended and restated, supplemented or otherwise modified from time to time, the "Guaranty and Security Agreement"), to guarantee the Obligations (as defined in the Loan Agreement) of Borrower; and

WHEREAS, each Grantor is party to the Guaranty and Security Agreement pursuant to which Grantor executed and delivered to the Collateral Agent a Third Amended and Restated Intellectual Property Security Agreement, dated as of September 8, 2020 (the "Existing Intellectual Property Security Agreement");

WHEREAS, events impacting certain of the Intellectual Property Collateral (defined below) have subsequently occurred and, pursuant to the Guaranty and Security Agreement, the Grantors are required to execute and deliver to the Collateral Agent this Agreement; and

WHEREAS, this Agreement amends and restates the Existing Intellectual Property Security Agreement in its entirety;

NOW, THEREFORE, in consideration of the mutual covenants, terms and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree, intending to be legally bound, as follows:

Section 1. <u>Defined Terms</u>. Capitalized terms used herein without definition are used as defined in the Guaranty and Security Agreement.

Section 2. <u>Grant of Security Interest in IP Collateral</u>. Each Grantor, as collateral security for the prompt and complete payment and performance when due (whether at stated maturity, by acceleration or otherwise) of the Secured Obligations, hereby mortgages, pledges and hypothecates to the Collateral Agent, for the benefit of Lenders and the other Secured Parties, and grants to the Collateral Agent, for the benefit of Lenders and the other Secured Parties, a Lien on and security interest in, all of its right, title and interest in, to and under the following Collateral of such Grantor, in each case, solely to the extent constituting Collateral (and excluding any Excluded Property) (the "Intellectual Property Collateral"):

- (a) any and all United States Patents, Trademarks and other Intellectual Property and IP Licenses (including any IP Licenses under the Current Company IP Agreements to which a Grantor is a party and the rights of such Grantor thereunder, and all of a Grantor's right, title and interest in, to and under any Internet Domain Names and Software) owned by a Grantor, in each case, relating to the research, development, manufacture, production, use, commercialization, marketing, importing, storage, transport, offer for sale, distribution or sale of the Product in the Territory, including, without limitation, those referred to on Schedule 1 hereto; and
- (b) all proceeds, products, accessions, rents and profits of or in respect of any of the foregoing.
- Section 3. <u>Guaranty and Security Agreement</u>. The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Collateral Agent for the benefit of Lenders and the other Secured Parties, pursuant to the Guaranty and Security Agreement and each Grantor hereby acknowledges and agrees that the obligations, rights and remedies of such Grantor and of the Collateral Agent on behalf of Lenders and the other Secured Parties with respect to the security interest in the Intellectual Property Collateral made and granted hereby are more fully set forth in the Guaranty and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.
- Section 4. <u>Grantor Remains Liable</u>. Each Grantor hereby agrees that, anything herein to the contrary notwithstanding, such Grantor shall assume full and complete responsibility for the prosecution, defense, enforcement or any other reasonably necessary actions in connection with their Intellectual Property and IP Licenses subject to a security interest hereunder.
- Section 5. <u>Counterparts</u>. This Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.
- Section 6. Governing Law. This Agreement and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York without regard to any principle of conflicts of law that could require the application of the law of any other jurisdiction.

IN WITNESS WHEREOF, each Grantor has caused this Fourth Amended and Restated Intellectual Property Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

AKEBIA THERAPEUTICS, INC.

as Grantor

By:

Name: John P. Butle

Title: President and CEO

KERYX BIOPHARMACEUTICALS, INC.

as Grantor

By:

Name: John P

Title: Director

Signature Page to Fourth Amended and Restated Intellectual Property Security Agreement

ACCEPTED AND AGREED as of the date first above written:

BIOPHARMA CREDIT PLC, as Collateral Agent

By: Pharmakon Advisors, LP, its Investment Manager

By: Pharmakon Management I, LLC, its General Partner

Name: Pedro Gonzalez de Cosio

Title: Managing Member

Signature Page to Fourth Amended and Restated Intellectual Property Security Agreement

SCHEDULE I

TO

FOURTH AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

Intellectual Property

1. REGISTERED PATENTS, PATENT APPLICATIONS AND PATENT LICENSES

n	l Austriliani.	Effective	Patent	Little State of	Status (High-	and the second second	1.《光····································
Patent: 6 Patent ID	Application Number	Filing Date		Issue Date			Title
2,00000		1 7 3	70.25-44-50-44	Buttaken to By Strate To Fare & St.	W. Lines of the Community of	and the state of t	FERRIC ORGANIC
			1				COMPOUNDS, USES
						Panion & BF Biotech	THEREOF AND METHODS
P20001US1	11/206,981	2/18/2004	7,767,851	8/3/2010	In Force	Inc.	OF MAKING SAME
							FERRIC ORGANIC
						İ	COMPOUNDS, USES
						Panion & BF Biotech	THEREOF AND METHODS
P20001US11	16/885,471	2/18/2004			Pending	Inc.	OF MAKING SAME
							FERRIC ORGANIC
							COMPOUNDS, USES
						Panion & BF Biotech	THEREOF AND METHODS
P20001US2	12/711,679	2/18/2004	8,338,642	12/25/2012	In Force	Inc.	OF MAKING SAME
							FERRIC ORGANIC
							COMPOUNDS, USES
						Panion & BF Biotech	THEREOF AND METHODS
P20001US3	13/672,900	2/18/2004	8,609,896	12/17/2013	In Force	Inc.	OF MAKING SAME
							FERRIC ORGANIC
			İ				COMPOUNDS, USES
		11.				Panion & BF Biotech	THEREOF AND METHODS
P20001US4	14/011,291	2/18/2004	8,754,258	6/17/2014	In Force	Inc.	OF MAKING SAME
			1				FERRIC ORGANIC
	i		1			n i annnium	COMPOUNDS, USES
		11				Panion & BF Biotech	THEREOF AND METHODS
P20001US5	14/011,325	2/18/2004	8,901,349	12/2/2014	In Force	Inc.	OF MAKING SAME
		11.		1			FERRIC ORGANIC
		11				Danian & DE Diatast	COMPOUNDS, USES THEREOF AND METHODS
		1	0.046.006	0/00/0014	T. B.	Panion & BF Biotech	
P20001US6	14/011,357	2/18/2004	8,846,976	9/30/2014	In Force	Inc.	OF MAKING SAME

		- I			1		FERRIC ORGANIC
				•	j		COMPOUNDS, USES
1						Panion & BF Biotech	THEREOF AND METHODS
P20001US7	14/502,774	2/18/2004	9,328,133	5/3/2016	In Force	Inc.	OF MAKING SAME
							FERRIC ORGANIC
							COMPOUNDS, USES
						Panion & BF Biotech	THEREOF AND METHODS
P20001US8	15/143,987	2/18/2004	9,913,821	3/14/2018	In Force	Inc.	OF MAKING SAME
							PHARMACEUTICAL-
							GRADE FERRIC ORGANIC
				İ			COMPOUNDS, USES
						Panion & BF Biotech	THEREOF AND METHODS
P20002US1	12/064,058	\$/18/2006	8,093,423	1/10/2012	In Force	Inc.	OF MAKING SAME
							PHARMACEUTICAL-
							GRADE FERRIC ORGANIC
				1			COMPOUNDS, USES
		11		ļ		Panion & BF Biotech	THEREOF AND METHODS
P20002US2	13/289,048	\$/18/2006	8,299,298	10/30/2012	In Force	Inc.	OF MAKING SAME
							PHARMACEUTICAL-
							GRADE FERRIC ORGANIC
							COMPOUNDS, USES
	1			1		Panion & BF Biotech	THEREOF AND METHODS
P20002US3	13/661,558	\$/18/2006	8,754,257	6/17/2014	In Force	Inc.	OF MAKING SAME
							PHARMACEUTICAL-
							GRADE FERRIC ORGANIC
		1		1			COMPOUNDS, USES
		[]				Panion & BF Biotech	THEREOF AND METHODS
P20002US4	14/306,756	8/18/2006	9,050,316	6/9/2015	In Force	Inc.	OF MAKING SAME
]	ŀ		PHARMACEUTICAL-
ļ]])	1		GRADE FERRIC ORGANIC
							COMPOUNDS, USES
1				•		Panion & BF Biotech	THEREOF AND METHODS
P20002US5	14/701,933	8/18/2006	9,757,416	9/12/2017	In Force	Inc.	OF MAKING SAME
							PHARMACEUTICAL-
		11			ĺ		GRADE FERRIC ORGANIC
							COMPOUNDS, USES
			1			Panion & BF Biotech	THEREOF AND METHODS
P20002US9	17/091,090	8/18/2006	1		Pending	Inc.	OF MAKING SAME
1			1		1		METHODS FOR TREATING
P20003US1	08/794,328	2/3/1997	5,753,706	5/19/1998	In Force	HSU, Chen Hsing	RENAL FAILURE

	T	T		1		Panion & BF Biotech	PHARMACEUTICAL-
P20004US	10/682,045	0/8/2003	6,903,235	6/7/2005	In Force	Inc.	GRADE FERRIC CITRATE
	1						METHOD OF REVERSING,
				-		1	PREVENTING OR
				l		Panion & BF Biotech	STABILIZING SOFT TISSUE
P20005US1	12/162,558	/26/2007	9,750,715	9/5/2017	In Force	Inc.	CALCIFICATION
				1		Panion & BF Biotech	METHOD OF TREATING
P20006US2	15/814,767	1/26/2007			Pending	Inc.	CHRONIC KIDNEY DISEASE
	1				1	Keryx	
1				1	1	Biopharmaceuticals,	FERRIC CITRATE DOSAGE
P20007US1	13/255,326	7/21/2010	9,387,191	7/12/2016	In Force	Inc.	FORMS
						Keryx	DEDDIG GIMD LEE DOG LGE
		11			1	Biopharmaceuticals,	FERRIC CITRATE DOSAGE
P20007US3	15/159,008	7/21/2010	10,300,039	5/28/2019	In Force	Inc.	FORMS
					İ	Keryx	FERRIC CITRATE DOSAGE
20000001101	16/00/6000	1 1 1 1 1 1 1 1 1	Ì		Pending	Biopharmaceuticals, Inc.	FORMS
P20007US4	16/376,907	7/21/2010			Pending	Keryx	FORMS
1						Biopharmaceuticals,	FERRIC CITRATE DOSAGE
P20007US5	16/894,121	7/21/2010			Pending	Inc.	FORMS
P20007033	10/894,121	7/21/2010			renamg	IIIC.	USE OF FERRIC CITRATE
						Keryx	IN THE TREATMENT OF
						Biopharmaceuticals,	CHRONIC KIDNEY DISEASE
P20008US5	16/154,268	6/21/2013	•		Pending	Inc.	PATIENTS
120000000	10/134,200	W.Z.172013			Tonumb	21107	USE OF FERRIC CITRATE
							IN THE TREATMENT OF
			1				AND THE REDUCTION OF
	1		ŀ			ļ	MORTALITY AND
Į.						İ	MORBIDITY RELATED TO
							ADVERSE CARDIAC
						Keryx	EVENTS IN CHRONIC
						Biopharmaceuticals,	KIDNEY DISEASE
P20009US2	16/216,772	1/3/2014			Pending	Inc	PATIENTS
							USE OF FERRIC CITRATE
						Keryx	IN THE TREATMENT OF
			į			Biopharmaceuticals,	IRON-DEFICIENCY
P20010US1	15/553,348	3/3/2016			Pending	Inc.	ANEMIA
						Keryx	1
				1	1	Biopharmaceuticals,	HIGH PURITY FERRIC
P20011US8	16/989,377	3/12/2014			Pending	Inc.	CITRATE, METHODS OF

						MANUFACTURE AND USES FOR THE SAME
14/184.062	2/19/2014	9.624.155	4/18/2017	In Force	Japan Tobacco, Inc.	IRON (III) CITRATE, SUBSTANTIALLY FREE OF BETA-IRON HYDROXIDE OXIDE
16/815,472	2/19/2014	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Pending	Japan Tobacco, Inc.	IRON (III) CITRATE, SUBSTANTIALLY FREE OF BETA-IRON HYDROXIDE OXIDE
16/438,694	7/20/2011			Pending	Japan Tobacco, Inc.	TABLET CONTAINING FERRIC CITRATE

2. TRADEMARK REGISTRATIONS¹

Trademark	Co	ountry	18 14 1 18 14 1 18 14 14 14 14 14 14 14 14 14 14 14 14 14	Status 🏭	Application #	Date Filed	Registration#.	Registration Date	Owner
									Keryx
									Biopharmaceuticals,
AURYXIA	Ur	nited 8	States of America	Registered_	86/390,566	Sep 10, 2014	4956680	May 10, 2016	Inc.

3. IP LICENSES

- a. Second Amended and Restated License Agreement between the Borrower and Panion & BF Biotech, Inc., dated April 17, 2019.
 b. Amended and Restated Sublicense Agreement between Keryx and Japan Tobacco and TORII Pharmaceutical Co., Ltd., dated June 8,
- c. First Amendment to Amended and Restated Sublicense Agreement between Keryx and Japan Tobacco and TORII Pharmaceutical Co., Ltd., dated June 12, 2013.

TRADEMARK REEL: 007137 FRAME: 0531

RECORDED: 12/17/2020

¹ NTD: Any trademarks which are not part of the Collateral have been removed, but these are still referenced in the perfection certificate.