

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7090023

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECOND AMENDED AND RESTATED PATENT SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
GLOBAL BLOOD THERAPEUTICS, INC.	12/22/2021

RECEIVING PARTY DATA

Name:	BIOPHARMA CREDIT PLC
Street Address:	C/O BEAUFORT HOUSE, 51 NEW NORTH ROAD
City:	EXETER EX4 4EP
State/Country:	UNITED KINGDOM

PROPERTY NUMBERS Total: 51

Property Type	Number
Patent Number:	9981939
Patent Number:	10017491
Patent Number:	10829470
Application Number:	17026690
Patent Number:	9018210
Patent Number:	10034879
Patent Number:	10806733
Application Number:	17334213
Patent Number:	9012450
Patent Number:	10377741
Patent Number:	10822326
Application Number:	17334203
Patent Number:	10100043
Patent Number:	9422279
Patent Number:	9957250
Patent Number:	9458139
Patent Number:	10435393
Patent Number:	9604999
Patent Number:	8952171
Patent Number:	9776960
Patent Number:	10315991

PATENT

Property Type	Number
Patent Number:	10858317
Patent Number:	9802900
Patent Number:	9248199
Patent Number:	9447071
Patent Number:	10137118
Patent Number:	10722502
Application Number:	16923498
Patent Number:	10004725
Patent Number:	10695330
Patent Number:	11020382
Application Number:	17326045
Patent Number:	10077249
Patent Number:	10577345
Application Number:	17337895
Patent Number:	10493035
Application Number:	17153232
Patent Number:	11053195
Patent Number:	10450269
Patent Number:	10266551
Application Number:	16357148
Patent Number:	11014884
Application Number:	17223635
Application Number:	17524958
Patent Number:	10683285
Application Number:	16865625
Application Number:	63237780
Application Number:	17520453
Application Number:	63188833
Application Number:	63188735
Application Number:	63276498

CORRESPONDENCE DATA

Fax Number: (202)887-4288

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.

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Correspondent Name: MUSSIE B BEYENE

Address Line 1: 2001 K STREET N.W.

Address Line 4: WASHINGTON DC, D.C. 20006

ATTORNEY DOCKET NUMBER:	687747.0051
NAME OF SUBMITTER:	MUSSIE B BEYENE
SIGNATURE:	/Mussie B Beyene/
DATE SIGNED:	12/22/2021

Total Attachments: 35

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SECOND AMENDED AND RESTATED PATENT SECURITY AGREEMENT

THIS SECOND AMENDED AND RESTATED PATENT SECURITY AGREEMENT, dated as of December 22, 2021, is made by GLOBAL BLOOD THERAPEUTICS, INC. ("Grantor"), in favor of BIOPHARMA CREDIT PLC (together with its successors and permitted assigns, 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 Amended and Restated Loan Agreement, dated as of December 14, 2021 (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Loan Agreement"), by and among Grantor, (as a "Borrower"), 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, Borrower has agreed, pursuant to a Guaranty and Security Agreement dated as of December 20, 2019 in favor of the Collateral Agent for the benefit of Lenders and the other Secured Parties (as such agreement may be amended, 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, Grantor is party to the Guaranty and Security Agreement pursuant to which Grantor executed and delivered the Amended and Restated Patent Security Agreement, dated as of November 20, 2020 (the "Existing Patent Security Agreement");

WHEREAS, events impacting certain of the Patent Collateral (defined below) have subsequently occurred, including, a change in the status of certain Patent Collateral, and, pursuant to the Guaranty and Security Agreement, the Grantor is required to execute and deliver to the Collateral Agent this Agreement; and

WHEREAS, this Agreement amends and restates the Existing Patent 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. Defined Terms. Capitalized terms used herein without definition are used as defined in the Guaranty and Security Agreement.

Section 2. Grant of Security Interest in Patent Collateral. 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 Grantor, in each case, solely to the extent constituting Collateral (and excluding any Excluded Property) (the "Patent Collateral"):

all of its Patents and all IP Licenses and IP Ancillary Rights providing for the grant by or to Grantor of any right under any Patent, including, without limitation, those referred to on Schedule 1 hereto;

all reissues, reexaminations, continuations, continuations-in-part, divisionals, renewals and extensions of the foregoing; and

all income, royalties, proceeds and liabilities at any time due or payable or asserted under and with respect to any of the foregoing, including, without limitation, all rights to sue and recover at law or in equity for any past, present and future infringement, misappropriation, dilution, violation or other impairment thereof.

Section 3. Guaranty and Security Agreement. The security interest granted pursuant to this Patent Security 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 Grantor hereby acknowledges and agrees that the obligations, rights and remedies of Grantor and of the Collateral Agent on behalf of Lenders and the other Secured Parties with respect to the security interest in the Patent 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.

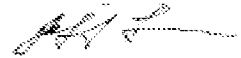
Section 4. Grantor Remains Liable. Grantor hereby agrees that, anything herein to the contrary notwithstanding, Grantor shall assume full and complete responsibility for the prosecution, defense, enforcement or any other reasonably necessary actions in connection with their Patents and IP Licenses subject to a security interest hereunder.

Section 5. Counterparts. This Patent Security 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 Patent Security 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, Grantor has caused this Amended and Restated Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,
GLOBAL BLOOD THERAPEUTICS, INC.,
as Grantor

By: 
Name: Jeffrey Farrow
Title: Chief Financial Officer

Signature Page to Second Amended and Restated Patent Security Agreement

ACTIVE/114063239.2

PATENT
REEL: 058575 FRAME: 0926

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

By: 

Name: Pedro Gonzalez de Cosio
Title: Managing Member

SCHEDULE I
TO
SECOND AMENDED AND RESTATED PATENT SECURITY AGREEMENT

Patent Registrations

REGISTERED PATENTS AND PATENT APPLICATIONS

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Pending	AE	1135/2015	03/10/2014			Global Blood Therapeutics, Inc.
Pending	AE	P6001221/2017	03/10/2014			Global Blood Therapeutics, Inc.
Issued	AM		03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Allowed	AP	AP/P/2015/008722	03/10/2014			Global Blood Therapeutics, Inc.
Pending	AP	AP/P/2019/011845	03/10/2014			Global Blood Therapeutics, Inc.
Published	AR	P140101044	03/14/2014			Global Blood Therapeutics, Inc.
Published	AR	P170101542	03/15/2013			Global Blood Therapeutics, Inc.
Published	AR	P140101658	04/22/2014			Global Blood Therapeutics, Inc.
Issued	AU	2014237348	03/10/2014	2014237348	01/24/2019	Global Blood Therapeutics, Inc.
Issued	AU	2018260809	03/10/2014	2018260809	09/03/2020	Global Blood Therapeutics, Inc.
Issued	AZ	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Pending	BR	BR1120150219829	03/10/2014			Global Blood Therapeutics, Inc.
Issued	BY	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Issued	CA	2,903,022	03/10/2014	2903022	11/09/2021	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	CH	14768317.1	03/10/2014	2970308	07/14/2021	Global Blood Therapeutics, Inc.
Issued	CL	2567-2015	03/10/2014	59.238	05/11/2020	Global Blood Therapeutics, Inc.
Published	CN	202010078781.1	03/10/2014			Global Blood Therapeutics, Inc.
Issued	DE	14768317.1	03/10/2014	60 2014 078 764.9	07/14/2021	Global Blood Therapeutics, Inc.
Issued	EA	201591430	03/10/2014	037091	02/04/2021	Global Blood Therapeutics, Inc.
Issued	EA	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Published	EA	202092627	03/10/2014			Global Blood Therapeutics, Inc.
Pending	EG	1470/2015	03/10/2014			Global Blood Therapeutics, Inc.
Issued	EP	14768317.1	03/10/2014	2970308	07/14/2021	Global Blood Therapeutics, Inc.
Published	EP	21185435.1	03/10/2014			Global Blood Therapeutics, Inc.
Issued	ES	14768317.1	03/10/2014	2970308	07/14/2021	Global Blood Therapeutics, Inc.
Issued	FR	14768317.1	03/10/2014	2970308	07/14/2021	Global Blood Therapeutics, Inc.
Issued	GB	14768317.1	03/10/2014	2970308	07/14/2021	Global Blood Therapeutics, Inc.
Issued	IL	241037	03/10/2014	241037	10/01/2019	Global Blood Therapeutics, Inc.
Issued	IN	8173/DELNP/2015	03/10/2014	322477	10/09/2019	Global Blood Therapeutics, Inc.
Published	IN	201918030625	03/10/2014			Global Blood Therapeutics, Inc.
Issued	IT	14768317.1	03/10/2014	5020210000 77702	07/14/2021	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	JP	2016-501067	03/10/2014	6463327	01/11/2019	Global Blood Therapeutics, Inc.
Issued	KG	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Issued	KR	10-2015-7024780	03/10/2014	10-2293060	08/18/2021	Global Blood Therapeutics, Inc.
Issued	KR	10-2017-7015283	03/10/2014	10-1971385	04/16/2019	Global Blood Therapeutics, Inc.
Pending	KW	PA42/2014	03/14/2014			Global Blood Therapeutics, Inc.
Issued	KZ	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2015/011448	03/10/2014	379235	01/22/2021	Global Blood Therapeutics, Inc.
Pending	MX	MX/a/2021/000848	03/10/2014			Global Blood Therapeutics, Inc.
Issued	MY	PI2015002264	03/10/2014	MY-180206-A	11/25/2020	Global Blood Therapeutics, Inc.
Pending	MY	PI 2017000837	03/10/2014			Global Blood Therapeutics, Inc.
Pending	MY	PI2020006184	03/10/2014			Global Blood Therapeutics, Inc.
Issued	NL	14768317.1	03/10/2014	2970308	07/14/2021	Global Blood Therapeutics, Inc.
Issued	OA	1201500365	03/10/2014	17481	12/30/2016	Global Blood Therapeutics, Inc.
Issued	PE	1889-2015	03/10/2014	10123	07/23/2020	Global Blood Therapeutics, Inc.
Issued	RU	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Issued	SA	515361021	03/10/2014	5393	06/03/2017	Global Blood Therapeutics, Inc.
Pending	SA	517380970	03/10/2014			Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Published	SG	10201904662V	03/10/2014			Global Blood Therapeutics, Inc.
Issued	TJ	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Issued	TM	201791007	03/10/2014	033555	10/31/2019	Global Blood Therapeutics, Inc.
Issued	TW	103109756	03/14/2014	I682922	01/21/2020	Global Blood Therapeutics, Inc.
Issued	TW	106119508	03/14/2014	I682926	01/21/2020	Global Blood Therapeutics, Inc.
Allowed	TW	108127539	03/15/2013			Global Blood Therapeutics, Inc.
Issued	US	14/776,603	03/10/2014	9981939	05/29/2018	Global Blood Therapeutics, Inc.
Issued	US	15/445,878	02/28/2017	10017491	07/10/2018	Global Blood Therapeutics, Inc.
Issued	US	15/941,433	03/30/2018	10829470	11/10/2020	Global Blood Therapeutics, Inc.
Published	US	17/026,690	09/21/2020			Global Blood Therapeutics, Inc.
Pending	ZA	2015/06702	03/10/2014			Global Blood Therapeutics, Inc.
Issued	AL	12862525.8	12/28/2012	P6978	08/09/2017	Global Blood Therapeutics, Inc.
Issued	AP	AP/P/2014/007805	12/28/2012	AP 5109	04/20/2020	Global Blood Therapeutics, Inc.
Allowed	AP	AP/P/2019/012120	12/28/2012			Global Blood Therapeutics, Inc.
Issued	AT	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	AT	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	AU	2012362236	12/28/2012	2012362236	09/08/2016	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	AU	2016203755	12/28/2012	2016203755	10/12/2017	GBT, INC. and THE UC REGENTS
Issued	AU	2017232206	12/28/2012	2017232206	03/12/2020	GBT, INC. and THE UC REGENTS
Issued	AU	2019275607	12/28/2012	2019275607	10/07/2021	GBT, INC. and THE UC REGENTS
Pending	AU	2021232806	12/28/2012			GBT, INC. and THE UC REGENTS
Issued	BE	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	BE	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	BG	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	BG	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	BR	BR112014016165-8	12/28/2012	BR112014016165-8	06/11/2019	Global Blood Therapeutics, Inc.
Pending	BZ	803.14	12/28/2012			GBT, INC. and THE UC REGENTS
Allowed	CA	2,860,323	12/28/2012			Global Blood Therapeutics, Inc.
Issued	CH	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	CH	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Allowed	CL	201401762	12/28/2012			Global Blood Therapeutics, Inc.
Issued	CN	201280070743.5	12/28/2012	ZL 201280070743.5	06/27/2017	GBT, INC. and THE UC REGENTS
Issued	CN	201710403045.7	12/28/2012	ZL201710403045.7	09/03/2021	GBT, INC. and THE UC REGENTS
Issued	CO	14-163.228	12/28/2012	30636	12/26/2016	GBT, INC. and THE UC REGENTS

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	CY	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	CY	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	CZ	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	CZ	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	DE	602012035838.6	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	DE	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	DK	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	DK	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	EE	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	EE	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Pending	EG	1095/2014	12/28/2012			GBT, INC. and THE UC REGENTS
Issued	EP	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	EP	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Pending	EP	20167746.5	12/28/2012			Global Blood Therapeutics, Inc.
Issued	ES	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	ES	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	FI	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	FI	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	FR	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	FR	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	GB	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	GB	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	GR	12862525.8	12/28/2012	20170403074	08/09/2017	Global Blood Therapeutics, Inc.
Issued	GR	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Pending	GT	A-2014-0136	12/28/2012			GBT, INC., THE UC REGENTS, and CYTOKINETICS, INC.
Issued	HK	15104079.9	12/28/2012	1203308B	06/08/2018	Global Blood Therapeutics, Inc.
Issued	HK	17108700.5	12/28/2012	HK1235055	01/08/2021	Global Blood Therapeutics, Inc.
Issued	HR	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	HR	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	HU	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
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Issued	IE	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	IL	233329	12/28/2012	233329	04/01/2021	GBT, INC. and THE UC REGENTS

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	IL	244626	12/28/2012	244626	02/01/2020	Global Blood Therapeutics, Inc.
Pending	IL	269977	12/28/2012			Global Blood Therapeutics, Inc.
Issued	IN	1581/KOLNP/2014	12/28/2012	322527	10/10/2019	Global Blood Therapeutics, Inc.
Published	IN	201938008046	12/28/2012			Global Blood Therapeutics, Inc.
Issued	IS	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	IS	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	IT	12862525.8	12/28/2012	502017000119045	08/09/2017	Global Blood Therapeutics, Inc.
Issued	IT	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Pending	JM	18/1/5937	12/28/2018			Global Blood Therapeutics, Inc.
Issued	JP	2014-550525	12/28/2012	6242810	11/17/2017	Global Blood Therapeutics, Inc.
Issued	JP	2017-077318	12/28/2012	6424399	11/02/2018	Global Blood Therapeutics, Inc.
Issued	JP	2018-189280	12/28/2012	6585261	09/13/2019	Global Blood Therapeutics, Inc.
Issued	JP	2019-161066	12/28/2012	6848026	03/05/2021	Global Blood Therapeutics, Inc.
Published	JP	2021-033123	12/28/2012			Global Blood Therapeutics, Inc.
Issued	LT	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	LT	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	LU	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	LU	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	LV	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	LV	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	MC	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	MC	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	MK	12862525.8	12/28/2012	MK/P/2017/715	08/09/2017	Global Blood Therapeutics, Inc.
Issued	MK	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	MT	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	MT	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2014/007971	12/28/2012	358992	08/31/2018	Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2018/009537	12/28/2012		07/03/2020	GBT, INC. and THE UC REGENTS
Published	MX	MX/a/2020/005645	12/28/2012			GBT, INC. and THE UC REGENTS
Issued	NI	2014-000070	12/28/2012	2781 RPI	03/21/2019	Global Blood Therapeutics, Inc.
Issued	NL	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	NL	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	NO	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	NO	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	OA	1201400285	12/28/2012	17169	08/31/2015	GBT, INC. and THE UC REGENTS
Pending	OA	1201700204	12/28/2012			GBT, INC. and THE UC REGENTS
Issued	PE	001050-2014	12/28/2012	9093	08/29/2018	Global Blood Therapeutics, Inc.
Published	PE	1322-2018	12/28/2012			GBT, INC. and THE UC REGENTS
Issued	PL	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	PL	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	PT	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	PT	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	RO	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	RO	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	RS	12862525.8	12/28/2012	RS-P-2017-968	08/09/2017	Global Blood Therapeutics, Inc.
Issued	RS	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	SE	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	SE	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Published	SG	10201702513S	12/28/2012			GBT, INC. and THE UC REGENTS
Published	SG	10201912409X	12/28/2012			GBT, INC. and THE UC REGENTS
Published	SG	10201912411R	12/28/2012			GBT, INC. and THE UC REGENTS

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Issued	SI	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	SI	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	SK	12862525.8	12/28/2012	2797416	08/09/2017	Global Blood Therapeutics, Inc.
Issued	SK	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	SM	12862525.8	12/28/2012	SM-T-201700483	08/09/2017	Global Blood Therapeutics, Inc.
Issued	SM	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	TR	12862525.8	12/28/2012	2017/15174	08/09/2017	Global Blood Therapeutics, Inc.
Issued	TR	16194019.2	12/28/2012	3141542	05/27/2020	Global Blood Therapeutics, Inc.
Issued	US	13/730,674	12/28/2012	9018210	04/28/2015	GBT, INC., THE UC REGENTS, and CYTOKINETICS, INC.
Issued	US	15/852,406	12/22/2017	10034879	07/31/2018	Global Blood Therapeutics, Inc.
Issued	US	16/017,248	06/25/2018	10806733	10/20/2020	Global Blood Therapeutics, Inc.
Published	US	17/334,213	05/28/2021			Global Blood Therapeutics, Inc. / The Regents of the University of California
Issued	CH	12862096.0	12/28/2012	2797597	02/26/2020	GBT, INC. and THE UC REGENTS
Issued	DE	12862096.0	12/28/2012	60 2012 068 146.2	02/26/2020	GBT, INC. and THE UC REGENTS
Issued	EP	12862096.0	12/28/2012	2797597	02/26/2020	GBT, INC. and THE UC REGENTS
Issued	ES	12862096.0	12/28/2012	2797597	02/26/2020	GBT, INC. and THE UC REGENTS

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Issued	FR	12862096.0	12/28/2012	2797597	02/26/2020	GBT, INC. and THE UC REGENTS
Issued	GB	12862096.0	12/28/2012	2797597	02/26/2020	GBT, INC. and THE UC REGENTS
Issued	IT	12862096.0	12/28/2012	2797597	02/26/2020	GBT, INC. and THE UC REGENTS
Issued	US	13/730,730	12/28/2012	9012450	04/21/2015	GBT, INC., THE UC REGENTS, and CYTOKINETICS, INC.
Issued	US	15/864,433	01/08/2018	10377741	08/13/2019	Global Blood Therapeutics, Inc.
Issued	US	16/519,552	07/23/2019	10822326	11/03/2020	Global Blood Therapeutics, Inc.
Pending	US	17/334,203	05/28/2021			Global Blood Therapeutics, Inc. / The Regents of the University of California
Issued	US	14/776,723	03/14/2014	10100043	10/16/2018	GBT, INC. and CYTOKINETICS, INC.
Issued	US	13/815,770	03/15/2013	9422279	08/23/2016	Global Blood Therapeutics, Inc.
Issued	US	14/980,890	12/28/2015	9957250	05/01/2018	Global Blood Therapeutics, Inc.
Issued	CA	2,902,874	03/10/2014	2902874	04/20/2021	Global Blood Therapeutics, Inc.
Issued	CH	14768759.4	03/10/2014	2970184	12/05/2018	Global Blood Therapeutics, Inc.
Issued	DE	14768759.4	03/10/2014	602014037457.3	12/05/2018	Global Blood Therapeutics, Inc.
Issued	EP	14768759.4	03/10/2014	2970184	12/05/2018	Global Blood Therapeutics, Inc.
Issued	ES	14768759.4	03/10/2014	2970184	12/05/2018	Global Blood Therapeutics, Inc.
Issued	FR	14768759.4	03/10/2014	2970184	12/05/2018	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	GB	14768759.4	03/10/2014	2970184	12/05/2018	Global Blood Therapeutics, Inc.
Issued	IT	14768759.4	03/10/2014	502019000012749	12/05/2018	Global Blood Therapeutics, Inc.
Issued	JP	2016-501052	03/10/2014	6355711	06/22/2018	Global Blood Therapeutics, Inc.
Issued	TW	103109179	03/13/2014	1630201	07/21/2018	Global Blood Therapeutics, Inc.
Issued	US	13/815,776	03/15/2013	9458139	10/04/2016	Global Blood Therapeutics, Inc.
Issued	US	14/791,017	07/02/2015	10435393	10/08/2019	Global Blood Therapeutics, Inc.
Issued	US	13/815,874	03/15/2013	9604999	03/28/2017	Global Blood Therapeutics, Inc.
Issued	US	13/815,735	03/15/2013	8952171	02/10/2015	Global Blood Therapeutics, Inc.
Issued	US	14/836,869	08/26/2015	9776960	10/03/2017	Global Blood Therapeutics, Inc.
Issued	US	15/688,185	08/28/2017	10315991	06/11/2019	Global Blood Therapeutics, Inc.
Issued	US	16/383,049	04/12/2019	10858317	12/08/2020	Global Blood Therapeutics, Inc.
Issued	US	14/207,289	03/12/2014	9802900	10/31/2017	Global Blood Therapeutics, Inc.
Issued	US	14/167,632	01/29/2014	9248199	02/02/2016	Global Blood Therapeutics, Inc.
Pending	AE	1716/2015	02/05/2015			Global Blood Therapeutics, Inc.
Issued	AL	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	AP	AP/P/2016/009261	02/05/2015	AP5023	03/02/2020	Global Blood Therapeutics, Inc.
Pending	AP	AP/P/2020/012199	02/05/2015			Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Published	AR	P150100347	02/06/2015			Global Blood Therapeutics, Inc.
Issued	AT	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	AU	2015214182	02/05/2015	2015214182	08/13/2020	Global Blood Therapeutics, Inc.
Pending	AU	2020207778	02/05/2015			Global Blood Therapeutics, Inc.
Issued	BA	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	BE	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	BG	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	BO	SP-178-2015	08/05/2015	7059-B	02/22/2021	Global Blood Therapeutics, Inc.
Allowed	BR	BR1120150321607	02/05/2015			Global Blood Therapeutics, Inc.
Published	CA	2,916,564	02/05/2015			Global Blood Therapeutics, Inc.
Issued	CH	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Published	CN	201580001333.9	02/05/2015			Global Blood Therapeutics, Inc.
Pending	CN	202111369353.5	02/05/2015			Global Blood Therapeutics, Inc.
Pending	CN	202111385345.X	02/05/2015			Global Blood Therapeutics, Inc.
Pending	CO	15-302.585	02/05/2015			Global Blood Therapeutics, Inc.
Pending	CO	NC2018/0005933	02/05/2015			Global Blood Therapeutics, Inc.
Pending	CO	NC2021/0004941	02/05/2015			Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	CY	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	CZ	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	DE	15746995.8	02/05/2015	60 2015 064 733.5	01/13/2021	Global Blood Therapeutics, Inc.
Issued	DK	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	EA	201592212	02/05/2015	028529	11/30/2017	Global Blood Therapeutics, Inc.
Published	EA	201791587	02/05/2015			Global Blood Therapeutics, Inc.
Pending	EC	IEPI-2015-53523	02/05/2015			Global Blood Therapeutics, Inc.
Issued	EE	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Pending	EG	PCT 2040/2015	02/05/2015			Global Blood Therapeutics, Inc.
Issued	EP	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Pending	EP	21151207.4	02/05/2015			Global Blood Therapeutics, Inc.
Issued	ES	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	FI	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	FR	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	GB	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	GR	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Published	HK	16110405.0	02/05/2015			Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	HR	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	HU	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	IE	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Pending	IL	243214	02/05/2015			Global Blood Therapeutics, Inc.
Pending	IL	285918	02/05/2015			Global Blood Therapeutics, Inc.
Pending	IN	11838/DELNP/2015	02/05/2015			Global Blood Therapeutics, Inc.
Published	IN	202018003142	02/05/2015			Global Blood Therapeutics, Inc.
Issued	IS	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	IT	15746995.8	02/05/2015	502021000023426	01/13/2021	Global Blood Therapeutics, Inc.
Issued	JO	181/2015	07/28/2015	3562	11/05/2020	Global Blood Therapeutics, Inc.
Pending	JO	121/2020	07/28/2015			Global Blood Therapeutics, Inc.
Issued	JP	2016-568465	02/05/2015	6809681	12/14/2020	Global Blood Therapeutics, Inc.
Pending	JP	2021-078276	02/05/2015			Global Blood Therapeutics, Inc.
Allowed	KR	10-2016-7000611	02/05/2015			Global Blood Therapeutics, Inc.
Pending	KW	129 PA/2015	08/05/2015			Global Blood Therapeutics, Inc.
Issued	LB	10712	08/05/2015	10712	08/14/2018	Global Blood Therapeutics, Inc.
Issued	LT	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	LU	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	LV	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	MC	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	ME	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	MK	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	MT	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2015/017614	02/05/2015	361810	12/14/2018	Global Blood Therapeutics, Inc.
Pending	MX	MX/a/2018/015510	02/05/2015			Global Blood Therapeutics, Inc.
Pending	MY	PI 2015003043	02/05/2015			Global Blood Therapeutics, Inc.
Issued	NG	NG/PT/C/2015/1672	02/05/2015	NG/PT/C/2015/1672	09/05/2016	Global Blood Therapeutics, Inc.
Issued	NL	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	NO	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Allowed	NZ	715029	02/05/2015			Global Blood Therapeutics, Inc.
Pending	OA	1201500512	02/05/2015	17658		Global Blood Therapeutics, Inc.
Pending	PE	000022-2016/DIN	02/05/2015			Global Blood Therapeutics, Inc.
Published	PE	511-2020	02/05/2015			Global Blood Therapeutics, Inc.
Issued	PL	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	PT	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Pending	PY	34700/2015	08/05/2015			Global Blood Therapeutics, Inc.
Issued	RO	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	RS	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	SA	516370358	02/05/2015	5672	12/21/2017	
Issued	SE	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	SG	11201510135X	02/05/2015	11201510135X	05/23/2018	Global Blood Therapeutics, Inc.
Pending	SG	10201804139V	02/05/2015			Global Blood Therapeutics, Inc.
Published	SG	10201911662Y	02/05/2015			Global Blood Therapeutics, Inc.
Pending	SG	10201911668V	02/05/2015			Global Blood Therapeutics, Inc.
Issued	SI	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	SK	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	SM	15746995.8	02/05/2015	3102208	01/13/2021	Global Blood Therapeutics, Inc.
Issued	TR	15746995.8	02/05/2015	2021/004104	01/13/2021	Global Blood Therapeutics, Inc.
Issued	TW	104104146	02/06/2015	I670265	09/01/2019	Global Blood Therapeutics, Inc.
Issued	TW	108126031	02/06/2015	I714182	12/21/2020	Global Blood Therapeutics, Inc.
Allowed	TW	109142221	02/06/2015			Global Blood Therapeutics, Inc.
Issued	US	14/616,548	02/06/2015	9447071	09/20/2016	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	US	15/801,152	11/01/2017	10137118	11/27/2018	Global Blood Therapeutics, Inc.
Issued	US	16/163,942	10/18/2018	10722502	07/28/2020	Global Blood Therapeutics, Inc.
Published	US	16/923,498	07/08/2020			Global Blood Therapeutics, Inc.
Pending	UY	36.259	08/05/2015			Global Blood Therapeutics, Inc.
Pending	ZA	2015/09361	02/05/2015			Global Blood Therapeutics, Inc.
Pending	ZA	2017/02036	02/05/2015			Global Blood Therapeutics, Inc.
Issued	AU	2016243428	03/29/2016	2016243428	04/08/2021	Global Blood Therapeutics, Inc.
Issued	CN	201680020001.X	03/29/2016	ZL201680020001.X	08/25/2020	Global Blood Therapeutics, Inc.
Pending	EG	PCT 1576/2017	03/29/2016			Global Blood Therapeutics, Inc.
Published	EP	16714724.8	03/29/2016	3277379	12/08/2021	Global Blood Therapeutics, Inc.
Published	HK	18110153.2	03/29/2016			Global Blood Therapeutics, Inc.
Issued	JP	2017-551197	03/29/2016	6806698	12/08/2020	Global Blood Therapeutics, Inc.
Pending	MY	PI2017703604	03/29/2016			Global Blood Therapeutics, Inc.
Pending	SG	10201909028U	03/29/2016			Global Blood Therapeutics, Inc.
Issued	TW	105109904	03/29/2016	I670060	09/01/2019	Global Blood Therapeutics, Inc.
Issued	TW	107137594	03/29/2016	I688388	03/21/2020	Global Blood Therapeutics, Inc.
Issued	US	15/084,252	03/29/2016	10004725	06/26/2018	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	US	15/981,732	05/16/2018	10695330	06/30/2020	Global Blood Therapeutics, Inc.
Issued	AP	AP/P/2018/010767	12/02/2016	AP5518	03/17/2021	Global Blood Therapeutics, Inc.
Published	BR	BR112018011272-0	12/02/2016			Global Blood Therapeutics, Inc.
Published	EP	16813299.1	12/02/2016			Global Blood Therapeutics, Inc.
Pending	HK	19120817.2	03/12/2019			Global Blood Therapeutics, Inc.
Pending	IL	259798	12/02/2016			Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2018/006832	12/02/2016	384797	07/21/2021	Global Blood Therapeutics, Inc.
Pending	MX	MX/a/2021/008631	12/02/2016			Global Blood Therapeutics, Inc.
Issued	NG	NG/PT/C/2018/2948	12/02/2016	RP:NG/PT/C/2018/2948	10/30/2018	Global Blood Therapeutics, Inc.
Issued	OA	1201800222	12/02/2016	18938	09/06/2019	Global Blood Therapeutics, Inc.
Pending	OM	OM/P/2018/00149	12/02/2016			Global Blood Therapeutics, Inc.
Pending	QA	QA/201806/00228	12/02/2016			Global Blood Therapeutics, Inc.
Pending	SA	518391724	12/02/2016			Global Blood Therapeutics, Inc.
Pending	SG	10201912511W	12/02/2016			Global Blood Therapeutics, Inc.
Issued	US	15/368,142	12/02/2016	11020382	06/01/2021	Global Blood Therapeutics, Inc.
Published	US	17/326,045	05/20/2021			Global Blood Therapeutics, Inc.
Pending	ZA	2018/03795	12/02/2016			Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Published	AR	P170101226	05/10/2017			Global Blood Therapeutics, Inc.
Issued	AT	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	AU	2017261730	05/11/2017	2017261730	03/04/2021	Global Blood Therapeutics, Inc.
Pending	AU	2021200802	05/11/2017			Global Blood Therapeutics, Inc.
Issued	BE	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Published	BR	BR112018072351-7	05/11/2017			Global Blood Therapeutics, Inc.
Pending	BR	BR122021023184-2	05/11/2017			Global Blood Therapeutics, Inc.
Pending	BR	BR122021023194-0	05/11/2017			Global Blood Therapeutics, Inc.
Published	CA	3,023,662	05/11/2017			Global Blood Therapeutics, Inc.
Issued	CH	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Published	CN	201780028862.7	05/11/2017			Global Blood Therapeutics, Inc.
Issued	CZ	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	DE	17796828.6	05/11/2017	602017037722.8	04/28/2021	Global Blood Therapeutics, Inc.
Issued	DK	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	EA	201892151	05/11/2017	037014	01/26/2021	Global Blood Therapeutics, Inc.
Published	EA	202092636	05/11/2017			Global Blood Therapeutics, Inc.
Issued	EE	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.

Status	Country Name	Application Number	Date Filed	Patent Number	Grant Date	Owner
Issued	EP	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Published	EP	21168857.7	05/11/2017			Global Blood Therapeutics, Inc.
Issued	ES	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	FI	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	FR	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	GB	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	GR	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Published	HK	19129465.1	09/11/2019			Global Blood Therapeutics, Inc.
Issued	HR	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	HU	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	IE	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	IL	262791	05/11/2017		10/30/2021	Global Blood Therapeutics, Inc.
Pending	IL	284406	05/11/2017			Global Blood Therapeutics, Inc.
Published	IN	201817040869	05/11/2017			Global Blood Therapeutics, Inc.
Pending	IN	202118031537	05/11/2017			Global Blood Therapeutics, Inc.
Issued	IT	17796828.6	05/11/2017	502021000063377	04/28/2021	Global Blood Therapeutics, Inc.
Published	JP	2018-558768	05/11/2017			Global Blood Therapeutics, Inc.

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Pending	KR	10-2018-7035085	05/11/2017			Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2018/013099	05/11/2017	377901	12/03/2020	Global Blood Therapeutics, Inc.
Allowed	MX	MX/a/2020/013114	05/11/2017			Global Blood Therapeutics, Inc.
Pending	MX	MX/a/2021/012669	05/11/2017			Global Blood Therapeutics, Inc.
Issued	NL	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	NO	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Pending	NZ	747514	05/11/2017			Global Blood Therapeutics, Inc.
Issued	PL	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	PT	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	SE	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Pending	SG	11201809344Q	05/11/2017			Global Blood Therapeutics, Inc.
Pending	SG	10201912288V	05/11/2017			Global Blood Therapeutics, Inc.
Issued	SK	17796828.6	05/11/2017	3454854	04/28/2021	Global Blood Therapeutics, Inc.
Issued	TW	106115528	05/10/2017	I663160	06/21/2019	Global Blood Therapeutics, Inc.
Allowed	TW	108110285	05/10/2017			Global Blood Therapeutics, Inc.
Issued	US	15/593,198	05/11/2017	10077249	09/18/2018	Global Blood Therapeutics, Inc.
Issued	US	16/101,251	08/10/2018	10577345	03/03/2020	Global Blood Therapeutics, Inc.

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Published	US	17/337,895	06/03/2021			Global Blood Therapeutics, Inc.
Pending	AP	AP/P/2019/011483	10/12/2017			Global Blood Therapeutics, Inc.
Published	AR	P170102849	10/12/2017			Global Blood Therapeutics, Inc.
Published	BR	BR112019006506-7	10/12/2017			Global Blood Therapeutics, Inc.
Published	EP	17790926.4	10/12/2017			Global Blood Therapeutics, Inc.
Published	HK	62020002853.3	10/12/2017			Global Blood Therapeutics, Inc.
Pending	IL	265777	10/12/2017			Global Blood Therapeutics, Inc.
Published	IN	201917015166	10/12/2017			Global Blood Therapeutics, Inc.
Published	MX	MX/a/2019/004120	10/12/2017			Global Blood Therapeutics, Inc.
Issued	NG	F/PT/C/2019/3588	10/12/2017	NG/PT/C/2019/3588	09/07/2021	Global Blood Therapeutics, Inc.
Issued	OA	1201900137	10/12/2017	19661	12/02/2020	Global Blood Therapeutics, Inc.
Pending	OM	om/p/2019/00136	10/12/2017			Global Blood Therapeutics, Inc.
Pending	QA	QA/201904/000186	10/12/2017			Global Blood Therapeutics, Inc.
Pending	SA	519401517	10/12/2017			Global Blood Therapeutics, Inc.
Published	TW	106134815	10/11/2017			Global Blood Therapeutics, Inc.
Issued	US	15/782,381	10/12/2017	10493035	12/03/2019	Global Blood Therapeutics, Inc.
Published	US	17/153,232	01/20/2021			Global Blood Therapeutics, Inc.

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Published	WO	PCT/US2017/056352	10/12/2017			Global Blood Therapeutics, Inc.
Pending	ZA	2019/02296	10/12/2017			Global Blood Therapeutics, Inc.
Pending	AE	1199/2015	03/10/2014			Global Blood Therapeutics, Inc.
Issued	AP	AP/P/2015/008721	03/10/2014	AP 4730	02/02/2019	Global Blood Therapeutics, Inc.
Published	AR	P140101043	03/14/2014			Global Blood Therapeutics, Inc.
Issued	AU	2014237340	03/10/2014	2014237340	11/22/2018	Global Blood Therapeutics, Inc.
Issued	AU	2018260808	03/10/2014	2018260808	07/09/2020	Global Blood Therapeutics, Inc.
Published	BR	BR1120150219853	03/10/2014			Global Blood Therapeutics, Inc.
Published	CA	2,903,220	03/10/2014			Global Blood Therapeutics, Inc.
Issued	CH	14770695.6	03/10/2014	2970196	11/25/2020	Global Blood Therapeutics, Inc.
Issued	CL	2501-2015	03/10/2014	59.236	05/11/2020	Global Blood Therapeutics, Inc.
Published	CN	202010996640.8	03/10/2014			Global Blood Therapeutics, Inc.
Issued	CO	15-204.332	03/10/2014	33303	02/06/2018	Global Blood Therapeutics, Inc.
Issued	DE	14770695.6	03/10/2014	60 2014 072 704.2	11/25/2020	Global Blood Therapeutics, Inc.
Issued	EA	201591432	03/10/2014	034922	04/07/2020	Global Blood Therapeutics, Inc.
Pending	EA	201992707	03/10/2014			Global Blood Therapeutics, Inc.
Pending	EG	1472/2015	03/10/2014			Global Blood Therapeutics, Inc.

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Issued	EP	14770695.6	03/10/2014	2970196	11/25/2020	Global Blood Therapeutics, Inc.
Issued	ES	14770695.6	03/10/2014	2970196	11/25/2020	Global Blood Therapeutics, Inc.
Issued	FR	14770695.6	03/10/2014	2970196	11/25/2020	Global Blood Therapeutics, Inc.
Issued	GB	14770695.6	03/10/2014	2970196	11/25/2020	Global Blood Therapeutics, Inc.
Pending	IL	241060	03/10/2014			Global Blood Therapeutics, Inc.
Pending	IN	8125/DELNP/2015	03/10/2014			Global Blood Therapeutics, Inc.
Issued	IT	14770695.6	03/10/2014	50202100009665	11/25/2020	Global Blood Therapeutics, Inc.
Issued	JP	2016-501058	03/10/2014	6426694	11/02/2018	Global Blood Therapeutics, Inc.
Issued	JP	2018-200506	03/10/2014	6690861	04/13/2020	Global Blood Therapeutics, Inc.
Issued	KR	10-2015-7024781	03/10/2014	10-2280614	07/16/2021	Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2015/011445	03/10/2014	379228	01/21/2021	Global Blood Therapeutics, Inc.
Pending	MY	PI2015002271	03/10/2014			Global Blood Therapeutics, Inc.
Issued	NL	14770695.6	03/10/2014	2970196	11/25/2020	Global Blood Therapeutics, Inc.
Issued	OA	1201500364	03/10/2014	17480	12/30/2016	Global Blood Therapeutics, Inc.
Issued	PE	1922-2015	03/10/2014	10068	03/12/2020	Global Blood Therapeutics, Inc.
Issued	SA	515361026	03/10/2014	6419	04/07/2019	Global Blood Therapeutics, Inc.
Pending	SA	517382253	03/10/2014			Global Blood Therapeutics, Inc.

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Pending	SA	517382251	03/10/2014			Global Blood Therapeutics, Inc.
Issued	SG	11201507320Q	03/10/2014	11201507320Q	05/03/2018	Global Blood Therapeutics, Inc.
Pending	SG	10201802911R	03/10/2014			Global Blood Therapeutics, Inc.
Issued	TW	103109178	03/13/2014	I695830	06/11/2020	Global Blood Therapeutics, Inc.
Issued	US	16/186,275	11/09/2018	11053195	07/06/2021	Global Blood Therapeutics, Inc.
Issued	US	16/446,331	06/19/2019	10450269	10/22/2019	Global Blood Therapeutics, Inc.
Published	ZA	2015/06470	03/10/2014			Global Blood Therapeutics, Inc.
Pending	ZA	2017/03791	03/10/2014			Global Blood Therapeutics, Inc.
Issued	CA	2,902,711	03/10/2014	2902711	07/06/2021	Global Blood Therapeutics, Inc.
Issued	EP	14769616.5	03/10/2014	2968299	01/20/2021	Global Blood Therapeutics, Inc.
Issued	JP	2016-501051	03/10/2014	6401771	09/14/2018	Global Blood Therapeutics, Inc.
Issued	MX	MX/a/2015/011769	03/10/2014	378131	12/10/2020	Global Blood Therapeutics, Inc.
Issued	US	14/776,717	03/10/2014	10266551	04/23/2019	Global Blood Therapeutics, Inc.
Allowed	US	16/357,148	03/18/2019			Global Blood Therapeutics, Inc.
Issued	CA	2,902,721	03/10/2014	2902721	09/14/2021	Global Blood Therapeutics, Inc.
Issued	CH	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	DE	14768414.6	03/10/2014	602014080137.4	09/15/2021	Global Blood Therapeutics, Inc.

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Issued	EP	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	ES	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	FR	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	GB	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	IT	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	JP	2016-501086	03/10/2014	6401772	09/14/2018	Global Blood Therapeutics, Inc.
Pending	KW	PA 37/2014	03/10/2014			Global Blood Therapeutics, Inc.
Allowed	MX	MX/a/2015/011509	03/10/2014			Global Blood Therapeutics, Inc.
Issued	NL	14768414.6	03/10/2014	2970315	09/15/2021	Global Blood Therapeutics, Inc.
Issued	US	14/776,715	03/10/2014	10100040	10/16/2018	Global Blood Therapeutics, Inc.
Published	AR	20190102776	10/01/2019			Global Blood Therapeutics, Inc.
Published	EP	19787545.3	09/30/2019			Global Blood Therapeutics, Inc.
Pending	LB	11762	10/01/2019			Global Blood Therapeutics, Inc.
Published	TW	108135580	10/01/2019			Global Blood Therapeutics, Inc.
Issued	US	16/588,753	09/30/2019	11014884	05/25/2021	Global Blood Therapeutics, Inc.
Pending	US	17/223,635	04/06/2021			Global Blood Therapeutics, Inc.
Pending	US	17/524,958	11/12/2021			Global Blood Therapeutics, Inc.

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Pending	AP	AP/P/2021/013195	11/18/2019			Global Blood Therapeutics, Inc.
Published	AR	20190103384	11/19/2019			Global Blood Therapeutics, Inc.
Pending	AU	2019383960	11/18/2019			Global Blood Therapeutics, Inc.
Pending	BR	BR112021007044-3	11/18/2019			Global Blood Therapeutics, Inc.
Pending	CA	3,120,380	11/18/2019			Global Blood Therapeutics, Inc.
Published	CN	201980088809.5	11/18/2019			Global Blood Therapeutics, Inc.
Published	CO	NC2021/0007993	11/18/2019			Global Blood Therapeutics, Inc.
Published	CR	2021-000335	11/18/2019			Global Blood Therapeutics, Inc.
Pending	EA	202191053	11/18/2019			Global Blood Therapeutics, Inc.
Pending	EG	PCT 693/2021	11/18/2019			Global Blood Therapeutics, Inc.
Allowed	EP	19818401.2	11/18/2019			Global Blood Therapeutics, Inc.
Pending	HK		11/18/2019			Global Blood Therapeutics, Inc.
Pending	IL	283128	11/18/2019			Global Blood Therapeutics, Inc.
Pending	IN	202117026016	11/18/2019			Global Blood Therapeutics, Inc.
Pending	JP	2021-527206	11/18/2019			Global Blood Therapeutics, Inc.
Pending	KR	10-2021-7018851	11/18/2019			Global Blood Therapeutics, Inc.
Pending	LB	11793	11/18/2019			Global Blood Therapeutics, Inc.

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Pending	MX	MX/a/2021/005887	11/18/2019			Global Blood Therapeutics, Inc.
Allowed	NG	NG/PT/C/2021/5431	11/18/2019			Global Blood Therapeutics, Inc.
Pending	OA	1202100207	11/18/2019			Global Blood Therapeutics, Inc.
Pending	OM	OM/P/2021/00184	11/18/2019			Global Blood Therapeutics, Inc.
Pending	PA	93489-01	11/18/2019			Global Blood Therapeutics, Inc.
Pending	QA	QA/202105/000248	11/18/2019			Global Blood Therapeutics, Inc.
Pending	SA	521422031	11/18/2019			Global Blood Therapeutics, Inc.
Pending	SG	11202104705R	11/18/2019			Global Blood Therapeutics, Inc.
Published	TW	108141848	11/18/2019			Global Blood Therapeutics, Inc.
Issued	US	16/687,474	11/18/2019	10683285	06/16/2020	Global Blood Therapeutics, Inc.
Published	US	16/865,625	05/04/2020			Global Blood Therapeutics, Inc.
Pending	ZA	2021/03351	11/18/2019			Global Blood Therapeutics, Inc.
Pending	WO	PCT/US2020/060923	11/17/2020			Global Blood Therapeutics, Inc.
Pending	WO	PCT/US2021/024384	03/26/2021			Global Blood Therapeutics, Inc.
Pending	AR	20210103071	11/05/2021			Global Blood Therapeutics, Inc.
Pending	US	63/237,780	08/27/2021			Global Blood Therapeutics, Inc.
Pending	TW	110141304	11/05/2021			Global Blood Therapeutics, Inc.

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Pending	US	17/520,453	11/05/2021			Global Blood Therapeutics, Inc.
Pending	WO	PCT/US2021/058324	11/05/2021			Global Blood Therapeutics, Inc.
Pending	US	63/188,833	05/14/2021			Global Blood Therapeutics, Inc.
Pending	US	63/188,735	05/14/2021			Global Blood Therapeutics, Inc.
Pending	US	63/276,498	11/05/2021			Global Blood Therapeutics, Inc.