

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2769143

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE BY SECURED PARTY	
CONVEYING PARTY DATA		
Name		Execution Date
LFB BIOTECHNOLOGIES S.A.S.U.		03/11/2014
RECEIVING PARTY DATA		
Name:	GTC BIOTHERAPEUTICS, INC.	
Street Address:	175 CROSSING BOULEVARD	
City:	FRAMINGHAM	
State/Country:	MASSACHUSETTS	
Postal Code:	01702	
PROPERTY NUMBERS Total: 46		
Property Type	Number	
Application Number:	09571116	
Application Number:	11061295	
Application Number:	11058458	
Application Number:	09028551	
Application Number:	11355557	
Application Number:	08170579	
Application Number:	08410887	
Application Number:	09012904	
Application Number:	11060041	
Application Number:	10933854	
Application Number:	10423792	
Application Number:	09333213	
Application Number:	10081400	
Application Number:	09175684	
Application Number:	10082018	
Application Number:	11140676	
Application Number:	12050569	
Application Number:	11007852	
Application Number:	09175683	
Application Number:	10949975	
Application Number:	10835836	

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Property Type	Number
Application Number:	11586431
Application Number:	11051216
Application Number:	08391743
Application Number:	09143155
Application Number:	11284585
Application Number:	10300233
Application Number:	11378727
Application Number:	08376620
Application Number:	08088416
Application Number:	09627290
Application Number:	10185269
Application Number:	10396855
Application Number:	11057522
Application Number:	07938322
Application Number:	07839194
Application Number:	08246259
Application Number:	12269462
Application Number:	10492056
Application Number:	11788775
Application Number:	08648235
Application Number:	09550001
Application Number:	09490657
Application Number:	08282256
Application Number:	07942157
Application Number:	09298971

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NAME OF SUBMITTER:	CARL A. KUKKONEN, III
SIGNATURE:	/ck3/
DATE SIGNED:	03/14/2014

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REEL: 032448 FRAME: 0046

Total Attachments: 7

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RELEASE OF LIEN ON PATENTS

This RELEASE OF SECURITY INTEREST is given as of March ¹⁴ 2014, by LFB Biotechnologies S.A.S.U. ("Grantee"), in favor of GTC Biotherapeutics, Inc. (the "Grantor"), whose principal address is 175 Crossing Boulevard, Framingham, Massachusetts 01702. Capitalized terms not otherwise defined herein shall have the meanings set forth (or incorporated) in the Patent Assignment.

WHEREAS, pursuant to that certain Patent and License Security Agreement, dated as of December 22, 2008, by and between Grantee and Grantor (the "Patent Assignment"), and certain other collateral documents, Grantor granted to the Grantee a continuing security interest in certain personal property of Grantor, including all right, title and interest of Grantor in, to and under all patents and patent applications of the Grantor (the "Patent Collateral"), to secure the Grantor's secured obligations to Grantee pursuant to the terms of the Patent Assignment.

WHEREAS, the Patent Assignment was recorded on December 22, 2008 in the United States Patent and Trademark Office under Reel 022019, Frame 0205 and additionally under Reel 022019/0273.

WHEREAS, Grantee has agreed to release its security interest in the Patent Collateral covered by the Patent Assignment.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Grantee hereby releases its security interest in the Patent Collateral, including the Patent Collateral set forth on Schedule A, and revests Grantor with full right, title, and interest in, to, and under the Patent Collateral.

[Signature Follows]

IN WITNESS WHEREOF, Lender has caused this RELEASE OF SECURITY INTEREST to be duly executed as of the date above first written.

LFB BIOTECHNOLOGIES S.A.S.U

By: 

Name:

Christian BECHON

Title:

CEO

Schedule A
[See Attached]

27178746v1

GTC OWNED PATENTS AND PATENT APPLICATIONS

Docket No.	GTC Ref.	Title	Application No.	Filing Date	Publication No.	Publication Date	Patent No.	Issue Date	Ownership
G0744.70000US01	GTC-35	TRANSGENICALLY PRODUCED ANTITHROMBIN III AND MUTANTS THEREOF	09/571116	12-May-2000					GTC
G0744.70002US00	GTC-234 CIP	A METHOD OF USING AN ANTI-CD137 ANTIBODY AS AN AGENT FOR RADIOIMMUNOTHERAPY OR RADIOIMMUNODETECTION	11/061295	18-Feb-2005	US-2006-0188439-A1	24-Aug-2006			GTC and Mayo Foundation for Medical Education and Research
G0744.70019US00	GTC-233	AN ANTI-CD137 ANTIBODY AS AN AGENT IN THE TREATMENT OF CANCER AND GLYCOSYLATION VARIANTS THEREOF	11/058458	15-Feb-2005	US-2006-0182744-A1	17-Aug-2006			GTC and Mayo Foundation for Medical Education and Research
G0744.70010US00	GTC-11 CIP	TRANSGENICALLY PRODUCED NON-SECRETED PROTEINS	09/028551	24-Feb-1998			6528699	04-Mar-2003	GTC
G0744.70012US00	GTC-240	CLARIFICATION OF TRANSGENIC MILK USING DEPTH FILTRATION	11/355557	16-Feb-2006	US-2007-0192878-A1	16-Aug-2007			GTC
G0744.70014US00	GTC-1	TRANSGENIC PRODUCTION OF ANTIBODIES IN MILK	08/170579	20-Dec-1993			5827690	27-Oct-1998	GTC
G0744.70014US01	GTC-1D	TRANSGENIC PRODUCTION OF ANTIBODIES IN MILK	08/410887	27-Mar-1995			5849992	5-Dec-1998	GTC
G0744.70014US02	GTC-001 D3	TRANSGENIC PRODUCTION OF ANTIBODIES IN MILK	09/012904	23-Jan-1998	US-2004-0006776-A1	08-Jan-2004			GTC
G0744.70015US02	GTC-211C	COMPOSITIONS AND METHODS FOR PREVENTION OF PHOTOAGING	11/060041	17-Feb-2005	US-2005-0208000-A1	22-Sep-2005			GTC
G0744.70017US01	GTC-220	METHOD FOR THE PRODUCTION OF FUSION PROTEINS IN TRANSGENIC MAMMAL MILK	10/933854	03-Sep-2004	US-2006-0105347-A1	18-May-2006			GTC
G0744.70021US03	GTC-34D	TRANSGENIC AND CLONED MAMMALS	10/423792	25-Apr-2003	US-2003-0177513-A1	18-Sep-2003			GTC
G0744.70030US01	GTC-6	ERYTHROPOIETIN ANALOG-HUMAN SERUM ALBUMIN FUSION	09/333213	15-Jun-1999			6548653	5-Apr-2003	GTC
G0744.70030US02	GTC-6 D	ERYTHROPOIETIN ANALOG-HUMAN SERUM ALBUMIN FUSION	10/081400	20-Feb-2002	US-2002-0155998-A1	24-Oct-2002	7101971	05-Sep-2006	GTC
G0744.70031US02	GTC-39	NOVEL MODIFIED MSP-1 NUCLEIC ACID SEQUENCES AND METHODS FOR INCREASING mRNA LEVELS AND PROTEIN EXPRESSION IN CELL SYSTEMS	09/175084	20-Oct-1998			6593463	15-Jul-2003	GTC

G0744.70031US03	GTC-39C	NOVEL MODIFIED MSP-1 NUCLEIC ACID SEQUENCES AND METHODS FOR INCREASING MRNA LEVELS AND PROTEIN EXPRESSION IN CELL SYSTEMS	10/08/2018	20-Feb-2002	US-2002-0144299-A1	03-Oct-2002	GTC
G0744.70031US04	GTC-39 D	NOVEL MODIFIED MSP-1 NUCLEIC ACID SEQUENCES AND METHODS FOR INCREASING MRNA LEVELS AND PROTEIN EXPRESSION IN CELL SYSTEMS	11/14/0676	27-May-2003	US-2003-0235371-A1	20-Oct-2003	GTC
G0744.70034US02	GTC-222	ERYTHROPOIETIN ANALOG-IGG FUSION PROTEINS	12/05/0569	18-Mar-2008			GTC
G0744.70036US00	GTC-229	METHOD OF PURIFYING RECOMBINANT MSP 1-42 DERIVED FROM PLASMODIUM FALCIPARUM	11/007852	09-Dec-2004	US-2006-0120159-A1	15-Jun-2006	GTC
G0744.70037US02	GTC-40	NOVEL MODIFIED NUCLEIC ACID SEQUENCES AND METHODS FOR INCREASING MRNA LEVELS AND PROTEIN EXPRESSION IN CELL SYSTEMS	09/175683	20-Oct-1998			GTC
G0744.70037US03	GTC-40C	NOVEL MODIFIED MSP-1 NUCLEIC ACID SEQUENCES AND METHODS FOR INCREASING MRNA LEVELS AND PROTEIN EXPRESSION IN CELL SYSTEMS	10/94/0975	24-Sep-2004	US-2005-0071890-A1	31-Mar-2005	GTC
G0744.70040US00	GTC-226	METHOD OF USING RECOMBINANT HUMAN ANTITHROMBIN FOR NEUROCOGNITIVE DISORDERS	10/833836	30-Apr-2004	US-2005-0245444-A1	03-Nov-2005	GTC
G0744.70045US01	GTC-238	ANTIBODIES WITH ENHANCED ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY ACTIVITY, METHODS OF THEIR PRODUCTION AND USE	11/586431	23-Oct-2006	US-2008-0118501-A1	22-May-08	GTC and Genzyme
G0744.70046US01	GTC-225 01	METHODS OF PROTEIN FRACTIONATION USING HIGH PERFORMANCE TANGENTIAL FLOW FILTRATION	11/051216	04-Feb-2005	US-2005-0197496-A1	08-Sep-2005	GTC
G0744.70047US00	GTC-10	TRANSGENICALLY PRODUCED ANTITHROMBIN III	08/791743	21-Feb-1995			GTC
G0744.70047US01	GTC-10C	TRANSGENICALLY PRODUCED ANTITHROMBIN III	09/143155	28-Aug-1998			GTC
G0744.70047US03	GTC-10C3	TRANSGENICALLY PRODUCED ANTITHROMBIN III	11/284585	14-Nov-2005	US-2008-0176786-A1	24-Jul-08	GTC

GTC LICENSED PATENTS & APPLICATIONS

Docket No.	GTC Ref.	Title	Application No.	Filing Date	Publication No.	Publication Date	Patent No.	Issue Date	Ownership
G0744.70025US00	GTC-210	A METHOD FOR THE CRYSTALLIZATION OF HUMAN SERUM ALBUMIN	10300233	19-Nov-2002	US-2004-0097710-A1	20-May-2004	7087719	08-Aug-2006	Taurus USA LLC (joint venture of GTC and Fresenius)
G0744.70025US01	GTC-210D	METHOD FOR THE CRYSTALLIZATION OF HUMAN SERUM ALBUMIN	11/378727	17-Mar-2006	US-2006-0178309-A1	10-Aug-2006			Taurus USA LLC (joint venture of GTC and Fresenius)
G0744.70032US01	GTC-2	ISOLATION OF COMPONENTS OF INTEREST FROM MILK	08/376620	23-Jan-1995			5756687	26-May-1998	Genzyme
G0744.70033US01	GTC-38C	PRODUCTION OF CFTR IN THE MILK OF TRANSGENIC MICE	08/084416	07-Jul-1993			6418469	10-Sep-2002	Genzyme
G0744.70033US02	GTC-38C2	THE PRODUCTION OF MEMBRANE PROTEINS IN THE MILK OF TRANSGENIC MAMMALS	09/627290	28-Jul-2000			6472584	29-Oct-2002	Genzyme
G0744.70033US03	GTC-38C3	PRODUCTION OF CFTR IN THE MILK OF TRANSGENIC MICE	10/185269	27-Jun-2002	US-2003-0033618-A1	13-Feb-2003	6743966	01-Jun-2004	Genzyme
G0744.70038US01	GTC-62	TREATMENT OF LUNG DISORDERS	10/596855	25-Mar-2003	US-2004-0192393-A1	30-Sep-2004			Board of Regents, The University of Texas System
G0744.70039US01	GTC-224	METHOD OF PREVENTING FIBRIN CLOTS IN PULMONARY TISSUE THROUGH THE USE OF AEROSOLIZED ANTICOAGULANTS	11/057522	14-Feb-2005	US-2005-0192226-A1	01-Sep-2005			Board of Regents, The University of Texas System
G0744.70042US03	GTC-3C2	TRANSGENIC ANIMALS SECRETING DESIRED PROTEINS INTO MILK	07/938322	31-Aug-1992			7045676	16-May-2006	Genzyme
G0744.70042US07	GTC-3 D3	TRANSGENIC ANIMALS SECRETING DESIRED PROTEINS INTO MILK	07/839194	20-Feb-1992					Genzyme
G0744.70042US08	GTC-3 C3	TRANSGENIC ANIMALS SECRETING DESIRED PROTEINS INTO MILK	08/246259	19-May-1994			6727405	27-Apr-2004	Genzyme and US Dept of HHS
G0744.70045US01	GTC-238	ANTIBODIES WITH ENHANCED ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY ACTIVITY, METHODS OF THEIR PRODUCTION AND USE	11/586431	23-Oct-2006	US-2008-0118501-A1	22-May-08			GTC and Genzyme
G0744.70049US02	GTC-241	TREATMENT AND PROPHYLAXIS WITH 4-1BB-BINDING AGENTS	12/269462						Mayo Foundation for Medical Education and Research
G0744.70050US01	GTC-242	ENHANCEMENT OF IMMUNE RESPONSES BY 4-1BB-BINDING AGENTS	10/492056	17-Aug-2004	US-2005-0013811-A1	20-Jan-2005			Mayo Foundation for Medical Education and Research

G0744.70051US01	GTC-243	METHODS AND PRODUCTS RELATED TO THE TRANSFER OF MOLECULES FROM BLOOD TO THE MAMMARY GLAND	11/788775	20-Apr-2007	US-2008-0063780-A1	13-Mar-08	GTC
G0744.70058US00	GTC-13	PURIFICATION OF BIOLOGICALLY ACTIVE PEPTIDES FROM MILK	08/648235	13-May-1996			11-Jul-2001 GTC
G0744.70059US01	GTC-30	METHOD OF PURIFYING HETEROLOGOUS PROTEINS	09/550001	14-Apr-2000			GTC
G0744.70063US02	GTC-14D	TRANSGENICALLY PRODUCED PROLACTIN	09/490657	24-Jan-2000			08-Apr-2003 GTC
G0744.70079US00	GTC-52	PROCESS FOR STERILE FILTRATION OF MILK	08/282246	29-Jul-1994			09-Nov-1996 GTC
G0744.70080US01	GTC-63C	INHIBITOR-RESISTANT UROKINASE	07/942137	08-Sep-1992			TSI Corp. (wholly owned subsidiary of GTC) 05-Jul-1997
G0744.70081US00	GTC-33C	METHODS OF RECONSTRUCTED GOAT EMBRYO TRANSFER	09/798971	23-Apr-1999			07-Jun-2003 GTC