03/16/2018 504823570

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4870305

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OTTAWA HOSPITAL RESEARCH INSTITUTE	03/29/2017

RECEIVING PARTY DATA

Name:	TURNSTONE LIMITED PARTNERSHIP	
Street Address:	1 FIRST CANADIAN PLACE	
City:	TORONTO	
State/Country:	CANADA	
Postal Code:	M5X 1B8	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15919554

CORRESPONDENCE DATA

Fax Number: (778)329-0752

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.

Email: ipmailvancouver@blg.com

Correspondent Name: BORDEN LADNER GERVAIS LLP

Address Line 1: 1200 WATERFRONT CENTRE, 200 BURRARD STR.

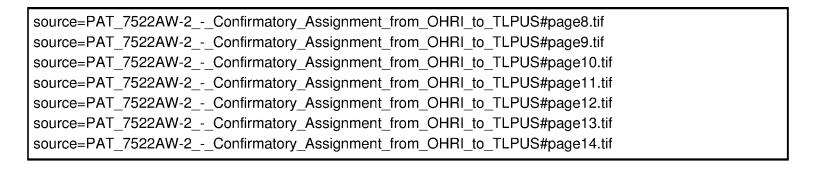
Address Line 4: VANCOUVER, CANADA V7X 1T2

ATTORNEY DOCKET NUMBER:	PAT 7522AW-2
NAME OF SUBMITTER:	ERIN STEFFEN
SIGNATURE:	/Erin Steffen/
DATE SIGNED:	03/16/2018

Total Attachments: 14

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PATENT REEL: 045254 FRAME: 0937 504823570



PATENT REEL: 045254 FRAME: 0938

CONFIRMATORY ASSIGNMENT

THIS CONFIRMATORY ASSIGNMENT is hereby executed for the purpose of recording the assignment in various patent offices. This confirmatory assignment is between **Turnstone Limited Partnership**, by Turnstone (GP) Ontario Inc., in its capacity as the general partner of Turnstone Limited Partnership, having an address at 1 First Canadian Place, Toronto, Ontario, M5X 1B8 ("TLP") and Ottawa Hospital Research Institute, having an address at 501 Smyth Road, Ottawa, Ontario, K1H 8L6 (the "Institute"). TLP and the Institute, are collectively referred to as the "Parties" and individually as a "Party".

RECITALS:

- A. The Parties entered into that certain agreement titled Assignment and Termination Agreement dated 2nd of October, 2015 (the "Assignment and Termination Agreement").
- B. Under the Assignment and Termination Agreement, the Institute assigned, transferred and conveyed, to TLP, effective as of October 2, 2015 (the "Effective Date"), any and all of their right, title and interest in the Assigned Technology (as defined in the Assignment and Termination Agreement).
- C. This assignment is intended to confirm the assignment, transfer and conveyance to TLP of the Assigned Technology and the patents relating thereto effective as of the Effective Date.

1. Definitions

Capitalized terms in this Assignment have the meanings given to such terms in the Assignment and Termination Agreement.

2. Assignment

For and in consideration of the sum of One Hundred Canadian Dollars (CA\$100), and other good and valuable consideration, the receipt of which is acknowledged by the Institute, the Institute hereby confirms that it has assigned, transferred and conveyed to TLP, effective as of the Effective Date, any and all of its right, title and interest in the Assigned Technology including the Patents listed in Schedule 1 to this confirmatory assignment. The Institute confirms having assigned, transferred and conveyed, to TLP their full and exclusive right, title and interest in and to the inventions described and claimed in such Patents worldwide, patents and patent applications for the inventions, all continuations, continuations in part, divisions, re-issues, re-examinations or extensions of the foregoing and any patent applications, continuations, continuations, in-part, divisions, re-issues, re-examinations or extensions for improvements to the foregoing.

The Institute consents to the assignment of the share of rights in the Assigned Technology owned by co-applicant(s), McMaster University and/or Children's Hospital of Eastern Ontario Research Institute Inc., to Turnstone Limited Partnership.

Page 1 of 14

3. Other Rights

The assignment, transfer and conveyance of Assigned Technology hereunder includes the right to bring a Claim, litigation or other proceeding, at law or in equity or otherwise, for any past, present and/or future infringement, breach, interference, violation, dilution, depreciation or misappropriation such Assigned Technology and to receive all monies, income, royalties, damages, compensation and other relief in connection with such Assigned Technology.

4. Further Assurances

The Institute agrees, with reasonable diligence, to do all such things and provide all such reasonable assurances as may be required to consummate the transactions contemplated by this Assignment, and the Institute shall provide such further documents or instruments required by TLP as may be reasonably necessary to effect the purpose of this Assignment and carry out its provisions, whether before or after the Effective Date.

5. Miscellaneous Provisions

- (a) Applicable Law. This Assignment shall be governed by, and construed in accordance with, the laws of the Province of Ontario and the Federal laws of Canada applicable in the Province of Ontario (without giving effect to the choice of law principles thereof), and the Parties agree to attorn to the Courts of the Province of Ontario sitting in the City of Toronto to resolve any disputes that may arise under this Assignment and irrevocably waive, to the fullest extent it may effectively do so, the defence of an inconvenient forum to the maintenance of such action, application or proceeding.
- (b) Headings. The paragraph headings contained in this Assignment are for convenient reference only and shall not affect the meaning or interpretation hereof.
- (c) Successors and Assigns. This Assignment shall enure to the benefit of and is binding upon the Parties and their respective successors and permitted assigns.
- (d) Counterpart Execution. This Assignment may be executed in separate counterparts and may be executed and delivered by facsimile and all such executed counterparts and facsimiles together shall constitute one agreement.
- (e) The undersigned hereby authorize the firm of **Borden Ladner Gervais LLP** to correct errors in this assignment or to insert any further identification or other information necessary or desirable to make this Confirmatory Assignment suitable for recordal throughout the world.

IN WITNESS WHEREOF, the Parties hereto have caused this Assignment to be duly executed by their respective authorized officers.

[Remainder of this page intentionally left blank]

OTTAWA HOSPITAL RESEARCH	Witness:
INSTITUTE	,
Everyted at MAGUIO	1. Anouk Fortin
City	Print Name
Executed at <u>OHQUO</u> City On Fario Canada Province/State, Country	whose full post office address
_	is: 1269 Grayrock Cr.
This <u>99</u> day of <u>Masch</u> , 2017. Day Month	Ottawa, Onterio K2C 2A6 Canad
Day Month	was personally present and did see
By: Marisa Akow	Marisa Akow
By: Marisa Akow Director, Research Administration	Print Name
Title:	execute the within assignment and such
	representative is personally known to me.
MIL	Leut Fort
Signature	Signature
TURNSTONE (GP) ONTARIO INC., in its	Witness:
capacity as general partner of	
Herewith declare that they accept the assignment executed at Ottowa City	Print Name whose full post office address is: 100 VARLEY LANE AFT 105
Ontario Canada Province/State, Country This 28 TH day of July , 2017. Day Month	is: 100 VARLEY LANE AT 105 STAWA ON KZK 1E5 was personally present and did see MAURA CAMPBELL
By: Maura Campbell	Print Name execute the within assignment and such

representative is personally known to me.

Signature

Schedule 1 to Confirmatory Assignment

Patent Famil Inventors: D		Owner (Ottawa Hospital R	esearch Inctit	ute	
Christopher B John Bell				ogen on myth		
Patent Family: Oncolytic Rhabdovirus (Abstract – Embodiments of the invention include compositions and methods related to non-VSV rhabdoviruses and their use as anticancer therapeutics. Such rhabdoviruses possess tumor cell killing properties in vitro and in vivo)			Priority Date: September 15, 2006. (US 60/844,726)			
Country	Number		Associate	Filing Date dd/mm/yr	Reference No.	Status or Patent No.
PCT	WO 09/0 (published	d 05/02/09) dentified as	Morgan Lewis	17/09/07	TBI- 001PC	National Phase In: Canada, China, Europe, Japan and US
Canada	2,663,034		Gowlings	17/09/07	TBI- 001CA	Issued 2,663,034
China	20078004	0733.6	CCPIT Patent & Trademark Law Office	17/09/07	TBI- 001CN	Issued 200780040733.6
Europe	20078751	68	Dehmel & Bettenhausen Patentanwälte	17/09/07	TBI- 001EP	Issued EP 2064229
Austria	Validation patent	ı of EP	Sonn & Partner	17/09/07	TBI- 001AT	Issued E741511
Belgium	Validation patent	n of EP	De Clercq & Partners CVBA	17/09/07	TBI- 001BE	Issued EP 2064229
France	Validation patent	ı of EP	Dehmel & Bettenhausen Patentanwälte	17/09/07	TBI- 001FR	Issued EP 2064229
Germany	Validation patent	ı of EP	Dehmel & Bettenhausen Patentanwälte	17/09/07	TBI- 001DE	Issued 602007042608.1
Great Britain	Validation patent	of EP	Dehmel & Bettenhausen Patentanwälte	17/09/07	TBI- 001GB	Issued EP 2064229

Ireland	Validation of EP patent	Dehmel & Bettenhausen	17/09/07	TBI- 001IE	Issued EP 2064229
Italy	Validation of EP	Patentanwälte Perani & Partners S.P.A.	17/09/07	TBI- 001IT	Issued 502015000071945
Luxembourg	Validation of EP patent	Dehmel & Bettenhausen Patentanwälte	17/09/07	TBI- 001LU	Issued EP 2064229
Netherlands	Validation of EP patent	Dehmel & Bettenhausen Patentanwälte	17/09/07	TBI- 001NL	Issued EP 2064229
Spain	Validation of EP patent	Balder IP Law	17/09/07	TBI- 001ES	Issued ES 2551892
Japan	2009527930	Shimizu Patent Office	17/09/07	TBI- 001JP	Published
US	12/441,494	Morgan Lewis	17/09/07	TBI- 001US	Issued 8,481,023
US	13/937,043	Morgan Lewis	08/07/13	TBI- 001USDIV	Published

Patent Fam	ily: TBI-003				
Inventors: John Bell and Dave Stojdl Owners: Ottawa Hospital Research Children's Hospital of Eastern Ont Institute Inc.					
Patent Fam	ily:				Priority Date:
Oncolytic Rhabdovirus					December 10, 2009
(Abstract – Embodiments of the invention include compositions and methods related to Maraba virus and their use as anti-cancer therapeutics. Such rhabdoviruses possess tumor cell killing properties <i>in vitro</i> and <i>in vivo</i>)				(US 61/285,461)	
Country		Associate	Filing	Reference	Status or Patent
			Date	No.	No.
************			dd/mm/yr	1 4 8 8 8	
PCT	PCT/IB10/003396	BLG	10/12/10	TBI-	National Phase
	WO 11/070440			003PC	In: Australia,
	(published				Brazil, Canada,
	16/06/11)	1	1	į	China, Europe,
	10/00/11)				India, Israel,
	Originally identified				India, Israel, Japan, Mexico and
					India, Israel,
	Originally identified				India, Israel, Japan, Mexico and
Australia	Originally identified	Griffith Hack	10/12/10	TBI-	India, Israel, Japan, Mexico and

Australia	2016202789	Griffith Hack	10/12/10	TBI- 003AUDIV	Pending
Brazil	BR 11 2012 013644-0	Magellan IP Propriedade Intelectual Ltda.	10/12/10	TBI- 003BR	Pending
Canada	2,836,117	BLG	10/12/10	TBI- 003CA	Pending
China	201080063490.X	WinGuan Patent and Trademark Attorneys	10/12/10	TBI- 003CN	Issued 102585989
Europe	10835567.8	ABG Patentes, S.L.	10/12/10	TBI-003EP	Issued 2510088
Austria	Validation of European Patent	REDL Life Science Patent Attorneys	10/12/10	TBI- 003AT	Issued AT E 834694
Belgium	Validation of EP patent	BIIP Business- Integrated Intellectual Property	10/12/10	TBI- 003BE	Issued EP 2510088
France	Validation of EP patent	ICOSA European Patent Attorneys	10/12/10	TBI- 003FR	Issued EP 2510088
Germany	Validation of EP patent	Gleiss & Große	10/12/10	TBI- 003DE	Issued 60 2010 037 038.0
Ireland	Validation of EP patent	MacLachlan & Donaldson	10/12/10	TBI-0031E	Issued EP 2510088
Italy	Validation of EP patent	Jacobacci & Partners S.p.A.	10/12/10	TBI-003IT	Issued 502016000131903
Luxembourg	Validation of EP patent	Molitor	10/12/10	TBI- 003LU	Issued EP 2510088
Netherland	Validation of EP patent	Vereenigde Octrooibureaux N.V.	10/12/10	TBI- 003NL	Issued EP 2510088
Spain	Validation of EP patent	ABG Patentes, S.L.	10/12/10	TBI-003ES	Issued EP 2510088
United Kingdom	Validation of EP patent	HGF Limited	10/12/10	TBI- 003UK	Issued EP 2510088
India	6009/DELNP/2012	Lakshmikumaran & Sridharan	10/12/10	TBI-003IN	Pending
Israel	220221	Ben-Ami & Associates	10/12/10	TBI-003IL	Published
Japan	2012-542635	Soei Patent & Law Firm	10/12/10	TBI-003JP	Published
Japan	2016-105211	Soei Patent & Law Firm	10/12/10	TBI-003JP	Pending

Mexico	MX/a/2012/006508	Panamericana de Patentes Y Marcas, S.C.	10/12/10	TBI- 003MX	Issued 337062
Mexico	MX/a/2016/001812	Panamericana de Patentes Y Marcas, S.C.	10/12/10	TBI- 003MX	Pending
United States	13/514,837	BLG	10/12/10	TBI-003US	Issued 9,045,729
United States	14/696,028	BLG	24/04/15	TBI- 003USDIV	Published

Patent Family	: TBI-004						
Inventors: Byram Bridle, Brian Lichty, Yonghong Wan, Jean-Simon Diallo, Chantal Lemay and John Bell Owners: McMaster University, and Hospital Research Institute							
Patent Family: A Method of Vaccination Comprising a Histone Deacetylase Inhibitor (Abstract — A vaccination method is provided. The method comprises administering to a mammal a histone deacetylase inhibitor in conjunction with a vaccine that expresses an antigen to which the mammal has a pre-existing immunity)							
Country	Number	Associate	Filing Date dd/mm/yr	Reference No.	Status or Patent No.		
PCT	PCT/CA12/000212 WO 12/122629 (published 20/09/12)	Gowlings	09/03/12	TBI-004PC	National Phase In: Canada, China, Europe, Japan and US		
Canada	2,829,607	Gowlings	09/03/12	TBI-004CA	Pending		
China	201280020513		09/03/12	TBI-004CN	Pending		
Europe	2012757601	Sagittarius IP	09/03/12	TBI-004EP	Pending		
Japan	2013556943	Okuyama & Sasajima	09/03/12	TBI-004JP	Pending		
United States	14/004,546	Gowlings	09/03/12	TBI-004US	Pending		

Patent Far	nily: TBI-005						
Inventors:	John Bell and Dave Stojdl	Childr	Owners: Ottawa Hospital Research Institute, and Children's Hospital of Eastern Ontario Research Institute Inc.				
Patent Far	nily:				Priority		
	ons and Methods for the Tr				Date: None		
(Abstract – Described herein is an isolated viral particle having a genome that includes open reading frames that encode: Maraba proteins N, P and L or variants thereof; as well as Maraba protein M or protein delta 51M, or variants thereof; and a Bahia Grande G protein, a LCMV G protein, or an Ebola G protein. Maraba protein N may have a sequence which includes SEQ ID NO:3. Maraba proteins M and delta 51M may have sequence which include SEQ ID NO: 4 and 5, respectively. Bahia Grande G protein may have a sequence which includes SEQ ID NO: 6. LCMV G protein may have a sequence which includes SEQ ID NO: 7. Ebola G protein may have a sequence which includes							
SEQ ID NO Country	Number	Associate	Filing Date	Reference No.	Status or Patent No.		
PCT	PCT/CA12/050893 WO 14/089668 (published 19/06/14)	BLG	12/12/12	TBI-005PC	National Phase Entry in: Australia Brazil, Canada, China, Europe, India, Israel Japan, Mexico, Russia and US		
Australia	2012396787	Griffith Hack	12/12/12	TBI-005AU	Pending		
Brazil BR 11 2015 013669.9 Magellar Propried		Magellan IP Propriedade Intelectual Ltda.	12/12/12	TBI-005BR	Pending		
Canada	2,894,618	BLG	12/12/12	TBI-005CA	Pending		
China	China 201280077698.6 DEQI Inte Property L Corporatio		12/12/12	TBI-005CN	Published		
Europe	12889818.6	ABG Patentes, S.L.	12/12/12	TBI-005EP	Published		
India	5049/DELNP/2015	Lakshmikumaran & Sridharan	12/12/12	TBI-005IN	Published		
Israel	239374	Ben-Ami & Associates	12/12/12	TBI-005IL	Published		

Japan	2015-546782	Soei Patent &	12/12/12	TBI-005JP	Published
		Law Firm			
Mexico	MX/a/2015/007093	Panamericana de Patentes Y Marcas, S.C.	12/12/12	TBI-005MX	Pending
Russia	2015128078	Sojuzpatent	12/12/12	TBI-005RU	Published
United States	14/651,761	BLG	12/12/12	TBI-005US	Published

********	nily: TBI-006					
and Jonatha	Dave Stojdl, John Bell, Br nn Pol	Owners: Ottawa Hospital Research Institute, Children's Hospital of Eastern Ontario Research Institute Inc., and McMaster University				
Patent Fan	nily:					Priority Date
Vaccine Co	I	ebruary 21, 1013				
mammal, the Virus E6/E Prostate protate protate from mammal. To variant of the variant of the Virus Early of	There is described a kit for ne kit includes: a first virus 7 fusion protein, human Siz otein, or Cancer Testis Anti- ulated to generate an immu- The kit also includes a Mara ne same antigen. The Mara sponse in the mammal. The	that express x-Transmem igen 1, or a v unity to the p aba MG1 vir aba MG1 vir	ses MAGEA3, Hebrane Epithelial ariant thereof as rotein or variant us encoding the us is formulated	uman Papillo Antigen of the an antigenice thereof in the same antiger to induce the	oma 6 ne 6 protein 6 n, or	US 11/767,776)
Country	Number	Associate	Filing Date dd/m	No	i i	Status or Patent No.
PCT .	PCT/CA14/050118 WO 14/127478 (published 28/08/14)	BLG	20/02	2/14 TB	SPC E	National Phase Entry in: Australia, Brazil, Canada, China, Europe ndia, Israel, apan, Mexico, Russia and US
Australia	2014221143	Griffith H	ack 20/02	1		ending
Brazil	BR 11 2015 019838.4	Magellan Propriedad Intelectua	de	7/14 TB		ending
	2,901,501	BLG	20/02	/14 TB	v 7	ending

China	201480020723.6	DEQI Intellectual	20/02/14	TBI-	Pending
		Property Law		006CN	
		Corporation			
Europe	14754562.8	ABG Patentes,	20/02/14	TBI-006EP	Published
		S.L.			
India	7820/DELNP/2015	Lakshmikumaran	20/02/14	TBI-006IN	Pending
		& Sridharan			
Israel	240723	Ben-Ami &	20/02/14	TBI-006IL	Published
		Associates			
Japan	2015-558314	Soei Patent &	20/02/14	TBI-006JP	Published
		Law Firm			
Mexico	MX/a/2015/010783	Panamericana de	20/02/14	TBI-	Pending
		Patentes Y		006MX	
		Marcas, S.C.			4 4 6 6 8
Russia	2015135890	Patentica	20/02/14	TBI-	Pending
				006RU	
United	14/769,035	BLG	20/02/14	TBI-006US	Published
States					

Inventors:	John Bell and Fabrice LeBo	oeuf Own	er: Ottawa Hosp	ital Research Inst	itute
Patent Family: Engineered Synergistic Oncolytic Viral Symbiosis (Abstract – In one aspect, the invention provides methods for preferentially killing target proliferating cells in a host, such as cancer cells, by infecting host tissues with two or more strains of virus. The strains of virus may be selected to provide a synergistic and symbiotic effect, involving a contemporaneous lytic infection in the target proliferating cells. In selected embodiments, the viruses are selected so that expression of a first virulence factor in proliferating cells infected with the first virus increases the lytic effect of the second virus; and, expression of the second virulence factor in proliferating cells infected with the second virus increases the lytic effect of the first virus. The genomes of the first and second viruses may be selected so that they are incompatible for recombination between the viral genomes in cells of the host.)					
Country	Number	Associate	Filing Date dd/mm/yr	Reference No.	Status or Patent No.
PCT	PCT/CA09/001176 WO 10/020056 (published 24/02/10)	Smart & Biggar	20/08/09	TBI-007PC	National Phase in Canada, Europe, Japan and U
Canada	2,734,740	Gowlings	20/08/09	TBI-007CA	Pending
Europe	2009807799	Dehmel & Bettenhausen Patentwälte PartmbB	20/08/09	TBI-007EP	Published
Japan	2011523281	Hiraki & Associates	20/08/09	TBI-007JP	Abandoned
United States	13/060,028	Morgan Lewis & Bockius LLP	20/08/09	TBI-007US	Published

Patent Fam	ily: TBI-008					
Inventors: John Bell, Fabrice LeBoeuf and Jean- Simon Diallo Owner: Ottawa Hospital Research In						
Patent Fam	ily:				Priority	
Recombinant Oncolytic Virus Expressing an IFN Binding Protein						
oncolytic rh that binds IF "interferon l	The present disclosure provides a sabdovirus that includes a polynucle $(N-\alpha, 1FN-\beta, or both)$. The soluble pinding protein. The interferon but the oncolytic rhabdovirus)	eotide seque protein is r	ence encoding a eferred to herei	i soluble protein n as an	(US 61/832,740)	
Country	Number	Associate	Filing Date dd/mm/yr	Reference No.	Status or Patent No.	
PCT	PCT/CA14/050534	BLG	09/06/14	TBI-008PC	National Phase Entry	
	WO 14/194433				deadline	
	(published 11/12/14)				07/12/15	

Patent Family	: TBI-009		11 A 4 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A			
	rolina Ilkow, Fabrice LeBoer on Diallo and Rozanne Arula		ier: Ottawa Ho	spital Research	Institute	
Patent Family: Compositions and Methods for Enhancing Virus Replication (Abstract – Described herein is a method of enhancing virus replication in permissive cells that express a receptor to FGF2 protein. The method includes administering FGF2 protein or a functional variant thereof and the virus to the permissive cells. An oncolytic virus having a genome that includes an open reading frame that encodes FGF2 protein or a functional variant thereof is also described.)						
Country	Number	Associate	Filing Date dd/mm/yr	Reference No.	Status or Patent No.	
PCT	PCT/CA14/050564 WO 14/198003 (published 18/12/14)	BLG	16/06/14	TBI-009PC	National Phase in Canada, Europe, and US	
Canada	2,915,045	BLG	16/06/14	TBI-009CA	Pending	
Europe	14811047.1	ABG Patentes, S.L.	16/06/14	TBI-009EP	Published	
			<u> </u>	<u>i</u>	1	

Patent Fam	ily: TBI-010						
Inventors: . Tangney and	Institute, and						
Patent Fam	Priority						
A Bacteriun	A Bacterium Producing an Interferon Binding Protein and Uses Thereof						
	June 14, 2013						
(Abstract -	Described herein is a non-invasiv	e bacterium t	hat includes a	polynucleotide	(US		
	coding a soluble interferon bindin				61/835,453)		
	soluble protein is secretable by th						
to aid in the patient.)	replication of an IFN-sensitive on	icolytic virus	in a tumorous	cancer in a			
Country	Number	Associate	Filing Date	Reference	Status or		
			dd/mm/yr	No.	Patent No.		
РСТ	PCT/CA14/050563	BLG	16/06/14	TBI-010PC	National		
					Phase Entry		
	WO 14/198002				deadline		
	(published 18/12/14)				07/12/15		