### 503431144 08/11/2015

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
D. LORNE TYRRELL	07/30/2015
HENDRIKJE GEESJE STEENBERGEN	07/29/2015
MICHAEL A. JOYCE	07/30/2015

#### **RECEIVING PARTY DATA**

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14423991

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ATTORNEY DOCKET NUMBER:	UALB-008
NAME OF SUBMITTER:	CAROL L. FRANCIS
SIGNATURE:	/Carol L. Francis, Reg. No. 36513/
DATE SIGNED:	08/11/2015

**Total Attachments: 2** 

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PATENT 503431144 REEL: 036296 FRAME: 0773

## ASSIGNMENT OF APPLICATION (JOINT)

Atty Docket No. UALB-008WO

THIS ASSIGNMENT, by D. Lome Tyrrell, Hendrikje Geesje Steenbergen, and Michael A. Joyce, (hereinafter referred to as the assignors), residing in Edmonton, Alberta, Canada, Edmonton, Alberta, Canada and Edmonton, Alberta, Canada respectively, witnesseth:

WHEREAS, the said assignors have invented certain new and useful improvements in:

"Methods for Producing Cells Having a Phenotype of a Primary Human Hepatocytes and Compositions"

X filed on August 30, 2013 as U.S. Application Serial No. or PCT International Application No. PCT/IB2013/002501 designating the United States.

WHEREAS, The Governors of the University of Alberta, Governed by the Post Secondary Learning Act. Province of Alberta duly organized under and pursuant to the laws of Canada, and having its principal place of business at Suite 4000, 10230 — Jasper Avenue, Edmonton, Alberta, Canada TSJ 4P6 (hereinafter referred to as the assignee) is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

PATENT REEL: 036296 FRAME: 0774

# ASSIGNMENT OF APPLICATION (JOINT)

Atty Docket No. UALB-008WO

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Date July 39/20/ Name of Inventor D. Lorne Tyrrell  D. Lorne Tyrrell	
Date JAJ 29 2015 Name of Inventor Hendrikje Geesje Steenbergen	
Date July 30, 2015 Name of Inventor Michael A. Joyce	
Hereby accepted on behalf of the assignee	
Signature	
AUGUST 7, LOST OLIS LUNG	
Date Name (print)	
The Governors of the University of Alberta  Title	

PATENT REEL: 036296 FRAME: 0775

**RECORDED: 08/11/2015**