

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
Epoch Biosciences, Inc.	06/20/2008

RECEIVING PARTY DATA	
Name:	Drug Royalty LP1
Street Address:	c/o DRI Capital, Inc.
Internal Address:	22 St. Clair Avenue East, Suite 200
City:	Toronto, Ontario
State/Country:	CANADA
Postal Code:	M4T 2S5

PROPERTY NUMBERS Total: 28

Property Type	Number
Patent Number:	6727356
Patent Number:	6790945
Patent Number:	6699975
Application Number:	11338866
Patent Number:	6312894
Patent Number:	6492346
Application Number:	10870578
Application Number:	11784539
Patent Number:	5801155
Patent Number:	6084102
Patent Number:	6426408
Patent Number:	6486308
Patent Number:	RE38416
Application Number:	10302607

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Patent Number:	6127121
Patent Number:	6485906
Patent Number:	6949367
Patent Number:	7045610
Patent Number:	6683173
Application Number:	10672429
Application Number:	11109923
Patent Number:	6660845
Patent Number:	6972328
Application Number:	11129003
Patent Number:	6962991
Application Number:	10302608
Patent Number:	5512667
Application Number:	11448218

CORRESPONDENCE DATA

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Address Line 4: New York, NEW YORK 10036

NAME OF SUBMITTER:

Margaret B. Brivanlou

Total Attachments: 9

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COLLATERAL ASSIGNMENT AGREEMENT

(ASSIGNMENT FOR SECURITY - PATENTS)

WHEREAS, Epoch Biosciences, Inc., a corporation incorporated under the Delaware General Corporation Law (herein referred to as "**Assignor**"), owns the letters patent and patent applications listed or described on Schedule A annexed hereto as part hereof (collectively, the "**Patents**");

WHEREAS, Assignor is a party to that certain Second Amended and Restated Collaboration, License and Supply Agreement between Assignor and Applera Corporation dated as of August 17, 2000, as amended by the First Side Agreement dated October 31, 2001, Amendment No. 1 to the Second Amended and Restated Collaboration, License and Supply Agreement dated July 26, 2002 and Amendment No. 2 to the Second Amended and Restated Collaboration, License and Supply Agreement dated as of December 31, 2005, as it may be further amended from time to time after the date hereof (collectively, the "**License Agreement**");

WHEREAS, Assignor is obligated to Drug Royalty LP1, a limited partnership organized under the laws of the State of Delaware (referred to herein as the "**Assignee**") under the Supplemental Royalty Interest Assignment Agreement dated as of March 28, 2008 among Assignor and Assignee;

WHEREAS, Assignor and Assignee have also entered into a Security Agreement dated as of the date hereof (the "**Security Agreement**") to secure the prompt, punctual and faithful payment and performance of the Obligations (as defined in the Security Agreement); and

WHEREAS, pursuant to the Security Agreement, Assignor has granted a security interest in the Collateral (as defined in the Security Agreement) in favor of Assignee, which Collateral includes the License Agreement, the Know-How (as defined in the Security Agreement), the Patents, and all proceeds thereof (including without limitation any reissue, continuation, continuation-in-part or extension of the Patents).

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor does hereby grant to Assignee a continuing security interest in, and mortgage on, and does hereby assign as security to Assignee, all of Assignor's right, title and interest in and to the Collateral to secure the prompt, punctual and faithful payment and performance of the Obligations. The recitals form an integral portion of this instrument and are incorporated into the operative provisions hereof.

Assignor and, by its acceptance hereof, Assignee do hereby further acknowledge and affirm that their respective rights and Assignee's remedies with respect to the continuing security interest in and mortgage on the Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

Assignee's address is c/o DRI Capital inc., 22 St. Clair Avenue East, Suite 200, Toronto, Ontario, M4T 2S5, Canada.

IN WITNESS WHEREOF, Assignor has caused this Collateral Assignment Agreement (Assignment for Security – Patents) to be duly executed by its officer thereunto duly authorized as of the 20 day of June, 2008.

EPOCH BIOSCIENCES, INC.

By: _____
Name:
Title:



Address: 21720 23rd Drive SE, #150, Bothwell, WA 98021, USA

{Schedule A Begins on Next Page}

Schedule A

Licensed U.S. Patents, Related Patents and Application

US Patent #	Application Number	Title	Status
6,727,356	09/457,616	Fluorescent Quenching Detection Reagents And Methods	Granted
6,790,945	09/876,830	Fluorescent Quenching Detection Reagents And Methods	Granted
6,699,975	10/093,769	Fluorescent Quenching Detection Reagents And Methods	Granted
	11/338,866	Fluorescent Quenching Detection Reagents And Methods	Pending
6,312,894	09/054,832	Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Granted
6,492,346	09/640,953	Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Granted
	10/870,578	Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Abandoned

US Patent #	Application Number	Title	Status
	11/784,539	Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Pending
5,801,155	08/415,370	Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Granted
6,084,102	09/141,764	Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Granted
6,426,408	09/507,345	Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Granted
6,486,308	09/739,928	Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Granted
RE38,416	09/693,213	Cross-Linking Oligonucleotides	Granted
	10/302,607	Cross-Linking Oligonucleotides	Abandoned
6,127,121	09/054,830	Oligonucleotides Containing Pyrazolo 3,4-D Pyrimidines for Hybridization and Mismatch Discrimination	Granted
6,485,906	09/431,385	Oligonucleotides containing pyrazolo[3,4-D] pyrimidines for hybridization and mismatch discrimination	Granted
6,949,367	09/724,959	Modified Oligonucleotides for Mismatch Discrimination	Granted

US Patent #	Application Number	Title	Status
7,045,610	09/796,988	Modified Oligonucleotides for Mismatch Discrimination	Granted
6,683,173	10/032,307	Tm Leveling Methods	Granted
	10/672,429	Tm Leveling Methods	Pending
	11/109,923	Tm Leveling Compositions	Pending
6,660,845	09/447,936	Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Granted
6,972,328	10/702,007	Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Granted
	11/129,003	Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Pending
6,962,991	09/954,624	Process for the Synthesis of Pyrazolopyrimidines	Granted
	10/302,608	Oligonucleotides Containing Pyrazolo (3,4-D) Pyrimidines for Hybridization and Mismatch Discrimination	Abandoned
5,512,667	08/012,896	Trifunctional Intermediates for Preparing 3'-Tailed Oligonucleotides	Granted
	11/448,218	Process for the Synthesis of Pyrazolopyrimidines	Pending

Licensed Foreign Patents and Applications

Title	Country	Patent Number	Application Number	Status
Fluorescent Quenching Detection Reagents And Methods	Australia	782204	20748/01	Granted
Fluorescent Quenching Detection Reagents And Methods	Canada		2396795	Pending
Fluorescent Quenching Detection Reagents And Methods	Europe		00984069.5 (published as EP1235938)	Pending
Fluorescent Quenching Detection Reagents And Methods	Europe		02737392.7 (published as EP1430147)	Pending
Fluorescent Quenching Detection Reagents And Methods	Japan		2001-544376	Pending
Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Australia	763948	34721/99	Granted
Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Canada		2329135	Pending
Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Europe		99916391.8 (published as EP1144429)	Pending
Hybridization and Mismatch Discrimination Using Oligonucleotides Conjugated to Minor Groove Binders	Japan		2000-542342	Pending

Title	Country	Patent Number	Application Number	Status
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Australia	716108	53842/96	Granted
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Canada		2223678	Pending
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	China	CN1186496C	96194421.8	Granted
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates (Divisional)	China		200410055897.4	Pending
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Europe	EP0819133	96910723.4	Granted
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	UK	0819133	96910723.4	Granted
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Germany	0819133	96910723.4	Granted
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	France	0819133	96910723.4	To Be Validated by Apr. 2, 2008
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Spain	0819133	96910723.4	To Be Validated by Apr. 2, 2008
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Italy	0819133	96910723.4	Granted

Title	Country	Patent Number	Application Number	Status
Covalently Linked Oligonucleotide Minor Groove Binder Conjugates	Japan		531051/96	Pending
Oligonucleotides Containing Pyrazolo [3,4-D] Pyrimidines for Hybridization and Mismatch Discrimination	Australia	759944	34724/99	Granted
Oligonucleotides Containing Pyrazolo[3,4-D] Pyrimidines for Hybridization and Mismatch Discrimination	Canada		2327547	Pending
Oligonucleotides Containing Pyrazolo [3,4-D] Pyrimidines for Hybridization and Mismatch Discrimination	Germany	69930379.6-08	99916394.2	Granted
Oligonucleotides Containing Pyrazolo [3,4-D] Pyrimidines for Hybridization and Mismatch Discrimination	Europe	1068358	99916394.2	Granted
Oligonucleotides Containing Pyrazolo [3,4-D] Pyrimidines for Hybridization and Mismatch Discrimination	France	1068358	99916394.2	Granted
Oligonucleotides Containing Pyrazolo [3,4-D] Pyrimidines for Hybridization and Mismatch Discrimination	Japan		2000-542486	Pending
Modified Oligonucleotides for Mismatch Discrimination	Australia		43403/01	Abandoned
Modified Oligonucleotides for Mismatch Discrimination	Canada		2401781	Pending

Title	Country	Patent Number	Application Number	Status
Modified Oligonucleotides for Mismatch Discrimination	Europe		01916372.4 (published as EP1261616)	Pending
Modified Oligonucleotides for Mismatch Discrimination	Japan		2001-563645	Pending
Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Australia		17989/01	Abandoned
Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Canada		2392033	Pending
Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Europe		00980769.4	Pending
Non-Aggregating, Non-Quenching Oligomers Comprising Nucleotide Analogues; Methods Of Synthesis And Use Thereof	Japan		2001-539925	Pending
Process for the Synthesis of Pyrazolopyrimidines	Europe		02766251.9 (published as EP1468112)	Pending
Solid Support for Synthesis of 3'-Tailed Oligonucleotides	Japan	3256539	5154341/1991	Granted
Solid Support for Synthesis of 3'-Tailed Oligonucleotides - (Divisional)	Japan	3284127	08/090408	Granted