PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAWRENCE J. WANGH	01/17/2006
JOHN E. RICE	01/17/2006
J. A. SANCHEZ	01/17/2006
KENNETH E. PIERCE	01/17/2006
JESSE SALK	01/16/2006
ARTHUR H. REIS	01/18/2006
CRISTINA HARTSHORN	01/17/2006

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PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	7632642

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DATE SIGNED:	08/08/2018

PATENT 505042083 REEL: 046587 FRAME: 0863

Total Attachments: 3

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PATENT REEL: 046587 FRAME: 0864

Attorney Docket No: 08609-015001

ASSIGNMENT

For valuable consideration, we, Lawrence J. Wangh Ph.D., of Auburndale, MA 02466; John Rice, M.S. of Quincy, MA 02169; J. Aquiles Sanchez, Ph.D. of Framingham, MA 01701; Kenneth Pierce, Ph.D. of Natick, MA 01760; Jesse Salk, B.S. of Seattle, WA 98105, Arthur Reis, Ph.D., of Arlington, MA 02476-5624 and Cristina Hartshorn, Ph.D. of Needham, MA 02492; hereby assign to BRANDE(S UNIVERSITY, a corporation of Massachusetts, having a place of business at 415 South Street, Waltham, MA 02454-9110, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of (a) an application for United States Patent entitled PRIMERS, PROBES AND METHODS FOR NUCLEIC ACID AMPLIFICATION, filed October 17, 2005, and assigned U.S. Serial Number 11/252,433, and (b) a United States Provisional Application of the same title filed October 18, 2004 and assigned Application Number 60/619,654, this assignment including said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing dates of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Attorney Docket No: 08609-015001

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DATE: 1/17/06

DATE: 1/17/06

KENNETH PIERCE, Ph.D.

DATE: ______

DATE: 1-17-06

JESSE SALK

CRISTINA HARTSHORN, Ph.D.

5/5

Attorney Docket No: 08609-015001

DATE:	LAWRENCE J. WANGH, PH.D.
DATE:	JOHN RICE, MS
DATE:	J. AQUILES SANCHEZ, PH.D.
DATE:	KENNETH PIERCE, PH.D.
DATE:	JESSE SAPK, BS
DATE:	ARTHUR REIS, PH.D.
DATE:	CRISTINA HARTSHORN, PH.D.