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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Bal Ram Singh	12/05/1997
Zhong Zhang	11/15/1997

RECEIVING PARTY DATA

Name:	University of Massachusetts Dartmouth	
Street Address:	18 Tremont Street	
Internal Address:	Suite 800	
City:	Boston	
State/Country:	MASSACHUSETTS	
Postal Code:	02108	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12247124

CORRESPONDENCE DATA

Fax Number: (877)769-7945

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 2: P.O.BOX 1022

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ATTORNEY DOCKET NUMBER:	08387-0002004
NAME OF SUBMITTER:	Sherwin Chan

NAME OF SUBMITTER: Sherwin Chan

Total Attachments: 2

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ASSIGNMENT

For valuable consideration, we, <u>Bal Ram Singh</u>, of <u>Dartmouth</u>, <u>Massachusetts</u> and <u>Zhong</u> <u>Zhang</u> of <u>New Bedford</u>, <u>Massachusetts</u> hereby assign to <u>University of Massachusetts</u>, a <u>Massachusetts</u> corporation having a place of business at <u>18 Tremont Street</u>, <u>Suite 800</u>, <u>Boston</u>, <u>Massachusetts 02108</u>, 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 an application for United States Patent signed by us, entitled <u>NOVEL PROTEINS WITHIN THE TYPE E BOTULINUM</u>

NEUROTOXIN COMPLEX, filed July 8, 1997, and assigned U.S. Serial Number 08/889,354, this assignment including said application, 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 date of said application 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, and 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.

IN WITNESS WHEREOF, I hereto set my hand and seal at UMass Darfmouth	
this 5th day of Oceanber, 1997	
Bel Ran Songh	L.S.
Bal Ram Singh	
STATE OF Wassachusetts:	
COUNTY OF Bristol::	
Before me this 5th day of 10com be 1997, personally appeared	

<u>Bal Ram Singh</u> known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

My Commission Expires:

[Notary's Seal Here]

My Commission Expires Isnuary 25, 2002

PATENT REEL: 022356 FRAME: 0500

IN WITNESS WHEREOF, I hereto set my hand and seal at BankBoston 21 th Faunce Co. Rd. No. Das Through,
this 15th day of November, 1997
L.S.
STATE OF Massachuse 115:
COUNTY OF BV15/0/:
Before me this 15th day of Mile imber, 1997, personally appeared
Zhong Zhang known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.
Mugaes M May Notary Public
My Commission Expires: Feb. 6, 1998

[Notary's Seal Here]

PATENT

RECORDED: 03/06/2009 REEL: 022356 FRAME: 0501