

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT2835581

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LONZA BIOLOGICS INC.	05/10/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALEXION PHARMACEUTICALS, INC.
<b>Street Address:</b>	352 KNOTTER DRIVE
<b>City:</b>	CHESHIRE
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06410
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14000055
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	612-335-5070
<b>Email:</b>	wasilkus@fr.com
<b>Correspondent Name:</b>	FISH & RICHARDSON P.C.
<b>Address Line 1:</b>	60 SOUTH SIXTH STREET
<b>Address Line 2:</b>	3200 RBC PLAZA
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	37460-0004US1
<b>NAME OF SUBMITTER:</b>	ANGELA D. FOLLETT, PH.D., REG. NO. 60365
<b>SIGNATURE:</b>	/Angela D. Follett, Ph.D./
<b>DATE SIGNED:</b>	04/30/2014
<b>Total Attachments: 2</b>	
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source=Lonza_AlexionPharm#page2.tif	

ASSIGNMENT

WHEREAS, Lonza Biologics Inc. (hereinafter termed "Assignor"), a Delaware Corporation, having a place of business at 101 International Drive, Portsmouth, New Hampshire 03801, owns the entire right, title, and interest of the Lonza Biologics Inc. inventors Xiangtian Long, Danmei Dai, and Andreas Brunner in the inventions described below (hereinafter "Said Inventions"),

**METHOD FOR SYNTHESIZING MOLYBDOPTERIN PRECURSOR Z DERIVATIVES**

naming as inventors Xiangtian Long of Room 2-2-302, Gezhi Garden, Sun Yat-sen University, Guangzhou Higher Education Mega Center, Guangzhou 510006, China; Danmei Dai of Room A1905, Building 19, Dongfang 3 Lu, Tianhe District, Guangzhou 510630, China; and Andreas Brunner of Metzgergasse 2, Brig CH-3900, Switzerland, together with Derek Kevin Watt, Keith Clinch, Rachel Anne Dixon, Sylvia Myrna Baars, Nicolas Georges Rene Proisy, Cyrille Abel Sébastien Landreau, and Gillian Mary Little, for which U.S. Provisional Patent Application Serial Number 61/599,314 was filed on February 15, 2012, and said Assignor authorizes and requests the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known, and

WHEREAS, Alexion Pharmaceuticals, Inc. (hereinafter termed "Assignee"), a corporation organized and existing under the laws of the state of Delaware, having a principle place of business at 352 Knotter Drive, Cheshire, Connecticut 06410, desires to acquire said Assignor's entire right, title, and interest in and to Said Inventions, and in and to any and all patent applications, patents, inventor's certificates, and other forms of protection thereon granted in the United States and foreign countries, the desired acquisition in accordance with agreements duly entered into with said Assignor;

NOW, THEREFORE, in consideration of said agreements and of good and valuable consideration acknowledged by said Assignor to have been received from said Assignee:

I. Said Assignor has sold, assigned, transferred, and conveyed, and by these presents does hereby sell, assign, transfer, and convey, unto said Assignee the entire right, title, and interest: (a) in Said Inventions; (b) in and to all rights to apply for foreign patents on Said Inventions pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on Said Inventions in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

2. Said Assignor hereby covenants and agrees to reasonably cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title, and interest herein conveyed in the United States and foreign countries. Such cooperation by said Assignor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations, or other papers, and other assistance all to the extent deemed reasonably necessary or desirable by the parties: (a) for perfecting in said Assignee the right, title, and interest herein conveyed; (b) for prosecuting any of said applications relating to Said Inventions; (c) for filing and prosecuting substitute, divisional, continuing, or additional applications covering Said Inventions; (d) for filing and prosecuting applications for reissuance of any of said patents relating to Said Inventions; (e) for interference or other priority proceedings involving Said Inventions; and (f) for legal proceedings involving Said Inventions and any applications therefore and any patents granted thereon, including, without limitation, reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions, and any court actions.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns, and other legal representatives, and shall be binding upon the Assignor, its successors, assigns, and other legal representatives.

4. Said Assignor hereby warrants and represents that the Assignor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Assignor has executed and delivered this instrument to said Assignee this 10<sup>th</sup> day of May, 2012.

LONZA BIOLOGICS INC.

ALEXION PHARMACEUTICALS, INC.

By: *Scott B. Waldman*

By: \_\_\_\_\_

Title: Scott B. Waldman  
U.S. General Counsel,  
Vice President and Secretary

Title: \_\_\_\_\_

