

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	PUBLIC UNIVERSITY CORPORATION NARA MEDICAL UNIVERSITY	03/22/2019
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	<b>Property Type</b>	<b>Number</b>
	Application Number:	15512187
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<b>SIGNATURE:</b>	/Cathy A. O'Brien/	
<b>DATE SIGNED:</b>	04/22/2019	
<b>Total Attachments: 4</b>		
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ASSIGNMENT

Assignor: Public University Corporation Nara Medical University  
a corporation organized and existing under the laws of Japan, and having a place  
of business at:  
840, Shijo-cho, Kashihara-shi  
Nara 6348521 JAPAN

Assignee: Chugai Seiyaku Kabushiki Kaisha  
a corporation organized and existing under the laws of Japan, and having a place  
of business at:  
5-1, Ukima 5-chome, Kita-ku  
Tokyo 1158543 JAPAN

Country	Application No.	Filing Date	Title
United States	15/512,187	March 17, 2017	METHOD FOR MEASURING REACTIVITY OF FVIII

1. Assignor represents that it is a co-owner of the patent application listed above, and of all foreign and domestic patents, patent applications, including continuation-in-part applications, reissues, re-examinations, certificates of invention, and the like that derive priority from, or claim the benefit of the filing date of, the patent application listed above (the "Patents and Patent Applications") and of all new and useful inventions and improvements that are disclosed in the Patents and Patent Applications (the "Inventions"). The Patents and Patent Applications and the Inventions are collectively referred to as the "Patent Assets."
2. Assignor hereby assigns to Assignee its entire worldwide right, title, and interest in and to the Patent Assets, including the right to file and prosecute, in its own name wherever so permitted by law or in the name of Assignee wherever necessary, patent applications, including corresponding and continuing applications, reissues, re-examinations, certificates of invention, and the like based on any of the Patent Assets, and to claim priority to any of the Patents and Patent Applications pursuant to the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. Assignor acknowledges receipt of fair and adequate consideration for this Assignment.
3. Assignor shall, when requested by Assignee and at no cost to Assignor, (i) execute or cause to be executed all rightful oaths, assignments, and powers of attorney to Assignee or to agents and

legal representatives of Assignee, and all other papers necessary and proper to carry out the intent and purpose of this Assignment; (ii) execute all papers necessary in connection with the Patents and Patent Applications, and any continuing, divisional, reissue, reexamination or other corresponding application thereof or post-grant proceeding relating thereto and to execute any separate assignment in connection with any such application as Assignee may deem necessary or expedient; and (iii) perform all affirmative acts that may be necessary to obtain a grant of a valid patent to Assignee on any of the Inventions.

4. Assignor hereby assigns to Assignee all of Assignor's right, title, and interest in and to any claims, whether known or unknown, suspected or unsuspected, of any nature, including choses in action, that Assignor has or may have against any party for infringement of the Patents and Patent Applications, and acknowledges receipt of fair and adequate consideration for this Assignment.
5. Assignor represents that Assignor has the full right to convey the interests assigned by this Assignment, and that Assignor has not executed and will not execute any agreement in conflict with this Assignment.
6. This Assignment is binding upon and inures to the benefit of the successors and assigns of the parties.

[ASSIGNMENT CONTINUES ON SIGNATURE PAGE]

The Assignor hereby executes this Assignment.

Assignor: PUBLIC UNIVERSITY CORPORATION NARA MEDICAL UNIVERSITY

Signature: Hosoi

Date: March 22, 2019

Name: Hiroshi Hosoi

Title: President

Witnessed by:

Signature: Hitoshi Tetsumura

Date: March 22, 2019

Print Name: Hitoshi Tetsumura

Signature: Kodai Okamoto

Date: March 22, 2019

Print Name: Kodai Okamoto

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CHUGAI SEIYAKU KABUSHIKI KAISHA

Signature: Kazuyuki Ojima

Date: April 12, 2019

Name: Kazuyuki Ojima

Title: Department Manager, Intellectual Property Department

Witnessed by:

Signature: Kazuhiko Nagakura

Date: April 12, 2019

Print Name: Kazuhiko Nagakura

Signature: Katsunori Kajihara

Date: April 12, 2019

Print Name: Katsunori Kajihara

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