

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM390648

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Medical Neurogenetics, LLC		07/07/2016	Limited Liability Company: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Plexus Fund III, L.P.		
<b>Street Address:</b>	4601 Six Forks Road		
<b>Internal Address:</b>	Suite 528		
<b>City:</b>	Raleigh		
<b>State/Country:</b>	NORTH CAROLINA		
<b>Postal Code:</b>	27609		
<b>Entity Type:</b>	Limited Partnership: DELAWARE		
<b>PROPERTY NUMBERS Total: 3</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	3843034	MNG	
<b>Registration Number:</b>	3843035		
<b>Registration Number:</b>	4135141	NGS-PLUS	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	9198216800		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	919-838-2034		
<b>Email:</b>	pkarmire@smithlaw.com		
<b>Correspondent Name:</b>	Perky L. Karmire/Smith Anderson		
<b>Address Line 1:</b>	150 Fayetteville Street		
<b>Address Line 2:</b>	Suite 2300		
<b>Address Line 4:</b>	Raleigh, NORTH CAROLINA 27601		
<b>NAME OF SUBMITTER:</b>	Perky L. Karmire		
<b>SIGNATURE:</b>	/Perky L. Karmire/		
<b>DATE SIGNED:</b>	07/07/2016		
<b>Total Attachments: 5</b>			
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## TRADEMARK SECURITY AGREEMENT

This **TRADEMARK SECURITY AGREEMENT** (this "Agreement"), dated as of July 7, 2016, is entered into by and between **MEDICAL NEUROGENETICS, LLC**, a Delaware limited liability company (the "Grantor"), and **PLEXUS FUND III, L.P.** (the "Assignee"), as collateral agent, pursuant to (i) that certain Security Agreement, dated as of the date hereof (as amended, amended and restated, supplemented, modified, extended, renewed or replaced from time to time, the "Security Agreement"), among the Assignee, the Grantor and certain other parties, and (ii) that certain Securities Purchase Agreement, dated as of the date hereof (as amended, amended and restated, supplemented, modified, extended, renewed or replaced from time to time, the "Securities Purchase Agreement"), between, among others, the Grantor, the Assignee, certain other parties and certain Purchaser party thereto.

Capitalized terms not otherwise defined herein have the respective meanings ascribed to them in the Security Agreement or the Securities Purchase Agreement, as applicable.

WHEREAS, pursuant to the Security Agreement, the Grantor has granted in favor of the Assignee a security interest in certain Collateral, including the registered Trademarks set forth on Schedule A hereto as of the date hereof.

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Grantor and the Assignee hereby agree as follows:

1. Grant of Security Interest

(a) Subject to the terms and conditions of the Security Agreement, to evidence further the security interest granted by the Grantor to the Assignee pursuant to the Security Agreement, the Grantor hereby grants to the Assignee a security interest in all of the Grantor's right, title and interest in, to and under the Trademarks now owned or at any time hereafter acquired or arising and wherever located by the Grantor, as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of the Grantor's Obligations. For the purposes of this Agreement, "Trademarks" means, collectively, all of the following of the Grantor: (a) all trademarks, rights and interests in trademarks, trade names, corporate names, company names, business names, fictitious business names, trade styles, service marks, logos, other business identifiers, prints and labels on which any of the foregoing have appeared or appear, whether registered or unregistered, all registrations and recordings thereof, and all applications in connection therewith (other than any "intent to use" a trademark applications for which a statement of use has not been filed (but only until such statement is filed)) anywhere in the world, (b) all reissues, extensions, continuations (in whole or in part) and renewals of any of the foregoing, (c) all income, royalties, damages and payments now or hereafter due and/or payable under any of the foregoing or with respect to any of the foregoing, including, without limitation, damages or payments for past, present or future infringements of any of the foregoing, (d) the right to sue for past, present and future infringements of any of the foregoing and (e) all rights corresponding to any of the foregoing (including the goodwill) throughout the world, including, without limitation, any of the foregoing referred to on Schedule A.

(b) As of the date hereof, Schedule A hereto contains a true and accurate list of all of the federally registered United States Trademark registrations and applications for the registration of United States federal Trademarks owned by the Grantor as of the date hereof.

(c) The security interest granted hereby is granted concurrently and in conjunction with the security interest granted to the Assignee under the Security Agreement. In the event that any of the

provisions of this Agreement are in conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

2. Modifications

This Agreement or any provision hereof may not be waived, amended, supplemented or otherwise modified except in accordance with Section 12.4 of the Securities Purchase Agreement. Notwithstanding the foregoing, the Grantor authorizes the Assignee, upon notice to the Grantor, to modify this Agreement without obtaining the Grantor's signature to such modification, to the extent that such modification constitutes an amendment of Schedule A hereto, to add any right, title or interest in any Trademarks owned or subsequently acquired by the Grantor or to delete any reference to any right, title or interest in any Trademarks in which the Grantor no longer has or claims any right, title or interest. Subject to the terms and conditions of the Securities Purchase Agreement and Security Agreement, the Grantor additionally agrees to execute any additional instruments and take such further action as the Assignee reasonably deems necessary to perfect, protect, ensure the priority of or continue the Assignee's Lien on any Trademarks owned or subsequently acquired by the Grantor that constitute Collateral or to effect the purposes of this Agreement.

3. Applicable Law

THIS AGREEMENT SHALL BE GOVERNED BY, CONSTRUED IN ACCORDANCE WITH, AND ENFORCED UNDER, THE LAWS OF THE STATE OF NORTH CAROLINA, WITHOUT REGARD TO THE PRINCIPLES OF CONFLICTS OF LAW OF SUCH STATE THAT WOULD REQUIRE THE APPLICATION OF THE LAW OF ANOTHER JURISDICTION.

4. Counterparts

This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts (including by telecopy or electronic transmission), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

[Signature Page Follows]

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed and delivered as of the date first above written.

ASSIGNEE:

**PLEXUS FUND III, L.P.**,  
as Collateral Agent

By: Plexus Fund III GP, LLC  
Its: General Partner

By:   
Name: Michael S. Becker  
Title: Manager

Address of Assignee:

Plexus Fund III, L.P.  
4601 Six Forks Road, Suite 528  
Attn: Alexander C. Bean  
Facsimile No.: (919) 256-6350  
Email: [abean@plexuscap.com](mailto:abean@plexuscap.com)

[Signature Page to Trademark Security Agreement (Medical Neurogenetics, LLC)]

**TRADEMARK**  
**REEL: 005830 FRAME: 0191**

GRANTOR:

MEDICAL NEUROGENETICS, LLC

By: Ralph Nelson  
Name: Ralph Nelson  
Title: CEO

Mailing address:

Medical Neurogenetics, LLC  
c/o HealthEdge Investment Partners, LLC  
5550 West Executive Drive, Suite 230  
Tampa, FL 33609

Attn: Ralph Nelson

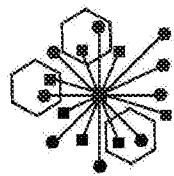
Facsimile No.: 813-490-7111

Email: Ralph@Healthedgepartners.com

[Signature Page to Trademark Security Agreement (Medical Neurogenetics, LLC)]

**TRADEMARK**  
**REEL: 005830 FRAME: 0192**

**SCHEDULE A**

<b>Loan Party</b>	<b>Jurisdiction</b>	<b>Registration No.</b>	<b>Registration Date</b>	<b>Mark</b>
Medical Neurogenetics, LLC	USPTO	3843034	August 31, 2010	MNG
Medical Neurogenetics, LLC	USPTO	3843035	August 31, 2010	Design: 
Medical Neurogenetics, LLC	USPTO	4135141	May 1, 2012	NGS-PLUS