TRADEMARK ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Pathway Genomics Corporation	FORMERLY Gene24, Inc.	12/28/2011	CORPORATION: DELAWARE

RECEIVING PARTY DATA

Name:	Venture Lending & Leasing VI, Inc.	
Street Address:	104 La Mesa Drive, Suite 102	
City:	Portola Valley	
State/Country:	CALIFORNIA	
Postal Code:	94028	
Entity Type:	CORPORATION: MARYLAND	

PROPERTY NUMBERS Total: 10

Property Type	Number	Word Mark
Registration Number:	3982532	PATHWAY FIT
Registration Number:	3850282	
Registration Number:	3951363	DNA LOCKBOX
Registration Number:	3811649	PATHWAY GENOMICS
Serial Number:	85026809	PATHWAY
Serial Number:	85017783	PATHWAYNUTRITION
Serial Number:	77816608	EDOC
Serial Number:	77672926	DNA HEALTHGUARD
Serial Number:	77664286	PATHWAY
Serial Number:	77933463	THE VALUE OF KNOWING

CORRESPONDENCE DATA

 Fax Number:
 (415)777-4961

 Phone:
 415 981 1400

Email: gkiviat@grmslaw.com

TRADEMARK REEL: 004689 FRAME: 0403 DP \$265.00 398253;

900210926

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: Jeffrey T. Klugman

Address Line 1: Four Embarcadero Center, Suite 4000
Address Line 4: San Francisco, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER:	47558/0118
NAME OF SUBMITTER:	Jeffrey T. Klugman
Signature:	/Jeffrey T. Klugman/
Date:	12/30/2011

Total Attachments: 14

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "Agreement") is made as of December 28, 2011, by and between Pathway Genomics Corporation, a Delaware corporation ("Grantor"), and VENTURE LENDING & LEASING VI, INC., a Maryland corporation ("Secured Party").

RECITALS

- A. Pursuant to that certain Loan and Security Agreement of even date herewith between Grantor, as borrower, and Secured Party, as lender, as such agreement may from time to time be amended, restated, supplemented or otherwise modified (the "Loan Agreement"), Secured Party has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in the Loan Agreement. All capitalized terms used herein without definition shall have the meanings ascribed to them in the Loan Agreement.
- B. Secured Party is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Secured Party a security interest in substantially all of Grantor's personal property whether presently existing or hereafter acquired. To that end, Grantor has executed in favor of Secured Party the Loan Agreement granting a security interest in all Collateral, and is executing this Agreement with respect to certain items of Intellectual Property, in particular.

NOW, THEREFORE, THE PARTIES HERETO AGREE AS FOLLOWS:

- 1. Grant of Security Interest. As collateral security for the prompt and complete payment and performance of all of Grantor's present or future Obligations, Grantor hereby grants a security interest and mortgage to Secured Party, as security, in and to Grantor's entire right, title and interest in, to and under the following Intellectual Property, now owned or hereafter acquired by Grantor or in which Grantor now holds or hereafter acquires any interest (all of which shall collectively be called the "Collateral" for purposes of this Agreement):
- (a) Any and all copyrights, whether registered or unregistered, held pursuant to the laws of the United States, any State thereof or of any other country; all registrations, applications and recordings in the United States Copyright Office or in any similar office or agency of the United States, and State thereof or any other country; all continuations, renewals, or extensions thereof; and any registrations to be issued under any pending applications, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");
- (b) All letters patent of, or rights corresponding thereto in, the United States or any other country, all registrations and recordings thereof, and all applications for letters patent of, or rights corresponding thereto in, the United States or any other country, including, without limitation, registrations, recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country; all reissues, continuations, continuations-in-part or extensions thereof, all petty patents, divisionals, and patents of addition, and all patents to be issued under any such applications, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");
- (c) All trademarks, trade names, corporate names, business names, trade styles, service marks, logos, other source or business identifiers, prints and labels on which any of the foregoing have appeared or appear, designs and general intangibles of like nature, now existing or hereafter adopted or acquired, all registrations and recordings thereof, and any applications in connection therewith, including, without limitation, registrations,

recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country or any political subdivision thereof, and reissues, extensions or renewals thereof, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on <u>Exhibit C</u> attached hereto (collectively, the "Trademarks");

- (d) Any and all claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;
- (c) All licenses or other rights to use any of the Copyrights, Patents or Trademarks, and all license fees and royalties arising from such use to the extent permitted by such license or rights;
- (f) All amendments, renewals and extensions of any of the Copyrights, Trademarks or Patents; and
- (g) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

Notwithstanding the foregoing the term "Collateral" shall not include: (a) "intent-to-use" trademarks at all times prior to the first use thereof, whether by the actual use thereof in commerce, the recording of a statement of use with the United States Patent and Trademark Office or otherwise, but only to the extent the granting of a security interest in such "intent to use" trademarks would be contrary to applicable law or (b) any contract, instrument or chattel paper in which Grantor has any right, title or interest if and to the extent such contract, instrument or chattel paper includes a provision containing a restriction on assignment such that the creation of a security interest in the right, title or interest of Grantor therein would be prohibited and would, in and of itself, cause or result in a default thereunder enabling another person party to such contract, instrument or chattel paper to enforce any remedy with respect thereto; provided, however, that the foregoing exclusion shall not apply if (i) such prohibition has been waived or such other person has otherwise consented to the creation hereunder of a security interest in such contract, instrument or chattel paper, or (ii) such prohibition would be rendered ineffective pursuant to Sections 9-407(a) or 9-408(a) of the UCC, as applicable and as then in effect in any relevant jurisdiction, or any other applicable law (including the Bankruptcy Code) or principles of equity); provided further that immediately upon the ineffectiveness, lapse or termination of any such provision, the term "Collateral" shall include, and Grantor shall be deemed to have granted a security interest in, all its rights, title and interests in and to such contract, instrument or chattel paper as if such provision had never been in effect; and provided further that the foregoing exclusion shall in no way be construed so as to limit, impair or otherwise affect Secured Party's unconditional continuing security interest in and to all rights, title and interests of Grantor in or to any payment obligations or other rights to receive monies due or to become due under any such contract, instrument or chattel paper and in any such monies and other proceeds of such contract, instrument or chattel paper.

- 2. <u>Covenants and Warranties</u>. Grantor represents, warrants, covenants and agrees as follows:
 - (a) Grantor is now the sole owner of the Collateral, except for Permitted Liens;
- (b) During the term of this Agreement, Grantor will not transfer or otherwise encumber any interest in the Collateral, except for Permitted Liens;
- (c) To its knowledge, each of the Patents is valid and enforceable, and no part of the Collateral has been judged invalid or unenforceable, in whole or in part, and no claim has been made that any part of the Collateral violates the rights of any third party;

- (d) Grantor shall deliver to Secured Party within thirty (30) days of the last day of each fiscal quarter, a report signed by Grantor, in form reasonably acceptable to Secured Party, listing any applications or registrations that Grantor has made or filed in respect of any patents, copyrights or trademarks and the status of any outstanding applications or registrations. Grantor shall promptly advise Secured Party of any material change in the composition of the Collateral, including but not limited to any subsequent ownership right of the Grantor in or to any Trademark, Patent or Copyright not specified in this Agreement;
- (e) Grantor shall use reasonable commercial efforts to (i) protect, defend and maintain the validity and enforceability of the Trademarks, Patents and Copyrights (ii) detect infringements of the Trademarks, Patents and Copyrights and promptly advise Secured Party in writing of material infringements detected and (iii) not allow any material Trademarks, Patents or Copyrights to be abandoned, forfeited or dedicated to the public without the written consent of Secured Party, which consent shall not be unreasonably withheld;
- (f) Grantor shall apply for registration on an expedited basis (to the extent not already registered) with the United States Patent and Trademark Office or the United States Copyright Office, as applicable: (i) those intellectual property rights listed on Exhibits A, B and C hereto within thirty (30) days of the date of this Agreement; and (ii) those additional intellectual property rights developed or acquired by Grantor from time to time in connection with any product or service, prior to the sale or licensing of such product or the rendering of such service to any third party (including without limitation revisions or additions to the intellectual property rights listed on such Exhibits A, B and C), except with respect to such rights that Grantor determines in its sole but reasonable commercial judgment need not be registered to protect its own business interests. Grantor shall, from time to time, execute and file such other instruments, and take such further actions as Secured Party may reasonably request from time to time to perfect or continue the perfection of Secured Party's interest in the Collateral. Grantor shall give Secured Party notice of all such applications or registrations; and
- (g) Grantor shall not enter into any agreement that would materially impair or conflict with Grantor's obligations hereunder without Secured Party's prior written consent, which consent shall not be unreasonably withheld. Grantor shall not permit the inclusion in any material contract to which it becomes a party of any provisions that could or might in any way prevent the creation of a security interest in Grantor's rights and interests in any property included within the definition of the Collateral acquired under such contracts.

Further Assurances; Attorney in Fact.

- (a) On a continuing basis, Grantor will make, execute, acknowledge and deliver, and file and record in the proper filing and recording places in the United States, all such instruments, including appropriate financing and continuation statements and collateral agreements and filings with the United States Patent and Trademark Office and the Register of Copyrights, and take all such action as may reasonably be deemed necessary or advisable, or as reasonably requested by Secured Party, to perfect Secured Party's security interest in all Copyrights, Patents and Trademarks and otherwise to carry out the intent and purposes of this Agreement, or for assuring and confirming to Secured Party the grant or perfection of a security interest in all Collateral.
- (b) Grantor hereby irrevocably appoints Secured Party as Grantor's attorney-in-fact, with full authority in the place and stead of Grantor and in the name of Grantor, from time to time in Secured Party's discretion, to take any action and to execute any instrument which Secured Party may deem necessary or advisable to accomplish the purposes of this Agreement, including (i) to modify, in its sole discretion, this Agreement without first obtaining Grantor's approval of or signature to such modification by amending Exhibits A, B and C, hereof, as appropriate, to include reference to any right, title or interest in any Copyrights, Patents or Trademarks acquired by Grantor after the execution hereof or to delete any reference to any right, title or interest in any Copyrights, Patents or Trademarks in which Grantor no longer has or claims any right, title or interest, (ii) to file, in its sole discretion,

one or more financing or continuation statements and amendments thereto, relative to any of the Collateral without the signature of Grantor where permitted by law, and (iii) after the occurrence of an Event of Default, subject to Part 2, Section 2 of the Supplement, to transfer the Collateral into the name of Secured Party or a third party to the extent permitted under the California Uniform Commercial Code.

- 4. <u>Events of Default.</u> The occurrence of any of the following shall constitute an Event of Default under this Agreement:
 - (a) An Event of Default under the Loan Agreement; or
- (b) Grantor breaches any warranty or agreement made by Grantor in this Agreement and, as to any breach that is capable of cure, Grantor fails to cure such breach within thirty (30) days of the sooner to occur of Grantor's receipt of notice of such breach from Secured Party or the date on which such breach first becomes known to Grantor.
- 5. <u>Amendments</u>. This Agreement may be amended only by a written instrument signed by both parties hereto, except for amendments permitted under Section 3 hereof to be made by Secured Party alone.
- 6. <u>Counterparts.</u> This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

[Signature Pages Follow]

[Signature page to Intellectual Property Security Agreement]

IN WITNESS WHEREOF, the partic written.	is hereto have executed this Agreement on the day and year first above
	GRANTOR:
Address of Grantor:	PATHWAY GENOMICS CORPORATION
4045 Sorrento Valley Blvd. San Diego, CA 92121 Attn:	Name: Somes Plante. Its: President on CEC
	SECURED PARTY:
Address of Secured Party:	VENTURE LENDING & LEASING VI, INC.
104 La Mesa Dr., Suite 102 Portola Valley, CA 94028 Attn: Chief Financial Officer	By:
	Its:

[Signature page to Intellectual Property Security Agreement]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written. GRANTOR: Address of Grantor: PATHWAY GENOMICS CORPORATION 4045 Sorrento Valley Blvd. San Diego, CA 92121 $\mathsf{B}\mathsf{y};$ Attu Name: lts: SECURED PARTY: Address of Secured Party VENTURE LENDING & LEASING VI, INC. 104 La Mesa Dr., Suite 102 By: Portola Valley, CA 94028 Attn: Chief Financial Officer Name: Maurice Werdegar

Hs;

President and CEO

EXHIBIT A

Copyrights

Description

Registration Number

Registration Date

None

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EXHIBIT B

Patents

<u>Title</u>	Application Number Registration Number	Application Filed Date Issued Date
Fit Product I Fit Product II Saliva Vial Collection System Saliva Collection Vial Design	12/804,363 13/316,924 12/383,535 29/314,382	7-19-2010 12-12-2011 3-25-2009 03-25-2009
Dual Mode - Genotyping + Copy Number Assays	13/068,384	05-16-2011
Genetics Based Automated Alerting System Blood Sample Collection Apparatus	12/387,782 12/584,153	02-03-2010 09-01-2009
Genome Based Drug Management System Genome Based Drug Management System	12/387,783 13/333,883	02-03-2010 12-21-2011

EXHIBIT C

Trademarks

		Description	Application Number Registration Number	Application Date Registration Date
DNA HEA	LTHGÜARD		2937763	18-Aug-2009
Country:	Argentina		2371031	28-May-2010
Classes:	42			
	LTHGUARD		830368671	18-Aug-2009
Country:	Brazil	×.		
Classes:	42			
YXXIA EXPE	LTHGUARD			16 1 8200
Country:	Canada		1448513 769984	18-Aug-2009 17-Jun-2010
Classes:	Ganada 42			17*300*2010
Carasca.	42			
DNA HEA	LTHGUARD		874693	18-Aug-2009
Country:	Chile			10.146 2000
Classes:	38, 44		레이지 얼마 가는 그 어때?	
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	LTHGUARD	#4.	7627440	18-Aug-2009
Country:	China (Peop	ple's Republic)		
Classes:	42			
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Country:	LTHGUARD Colombia		09086063 400941	18-Aug-2009 26-Apr-2010
Classes:	Colomola 44		400241	*ZU-7/\pi -2010
esmagea,	44			
DNA HEAT	LTHGUARD		8495384	18-Aug-2009
Country:	European C	ommunity	9,0,000	1000 1 K 20 25 C 20 C 20 C
Classes:	44	***************************************		
		4. 		
	LTHGUARD		1851859	18-Aug-2009
Country:	India			
Classes:	42			
DNA HEAT	THGUARD		1027956	18-Aug-2009
Country:	Mexico		1027930	10-Mug-2009
Classes:	42			
Commence	The second second			
DNA HEAL	THGUARD		77/672926	18-Feb-2009
Country:	United State	s of America		
Clusses:	38, 44			
INNEA COZOC	 ZBAN			60 P. C. 0020
DNA LOCK Country:	(BOX United State:	An Add A control Clies	77/672929 3951363	18-Feb-2009
Country: Classes:	- Omited States	s OF MIRCHER		26-Apr-2011
#1414 313 C 3 +	JF			

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	Description	Application Number Registration Number	Application Date Registration Date
	China (People's Republic) 42	7990999	13-Jan-2010
	United States of America 42	77/816608	31-Aug-2009
**	United States of America	77/505802	23-Jun-2003
HUMAN ELE Country: 1		830597050	06-May-2010
HUMAN ELEI Country: 1		830597085	06-May-2010
HUMAN ELE Country: U		85/027295 3850282	30-Apr-2010 21-Sep-2010
HUMAN ELEN		2010008057	28-May-2010
HUMAN ELEN	MENT LOGO 'enezuela	2010008058	28-May-2010
PATHWAY	razil	830597026	06-May-2010
PATHWAY	rožil	830597042	06-May-2010
PATHWAY Country: U	nited States of America	77/664286	05-Feb-2009
	nited States of America	85/026809	29-Apr-2010
PATHWAY	onozuela	2010007573	21sMay-2010

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<u>Description</u>	Application Number Registration Number	Application Date Registration Date
Classes: 10		
PATHWAY Country: Venezuela Classes: 42	2010007574	21-May-2010
PATHWAY FIT Country: United States of America Classes: 42, 44	85/01/7/27 3982532	19-Apr-2010 21-Jun-2011
PATRWAY GENOMICS Country: Brazil Classes: 10	830379606	14-Sep-2009
PATHWAY GENOMICS Country: Brazil Classes: 42	830379614	14-Sep-2009
PATHWAY GENOMICS Country: Brazil Classes: 45	830379592	14-Sep-2009
PATHWAY GENOMICS Country: Canada Classes: 10, 42, 45	1438316	15-May-2009
PATHWAY GENOMICS Country: China (People's Republic) Classes: 10	7403607 7403607	18-May-2009 28-Sep-2010
PATHWAY GENOMICS Country: China (People's Republic) Classes: 42	7403608 7403608	18-May-2009 07-Dec-2010
PATHWAY GENOMICS Country: China (People's Republic) Classes: 42 (Previously 45)	7403606 7403606	18-Mny-2009 07-Jan-2011
PATHWAY GENOMICS Country: Colombia Classes: 10	9089090 410655	25-Aug-2009 21-Sep-2010
PATHWAY GENOMICS Country: Colombia Classes: 42	9089092 410657	25-Aug-2009 21-Sep-2010
PATHWAY GENOMICS Country: Colombia Classes: 45	9089091 410656	25-Aug-2009 21-Sep-2010

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	Description	Application Number Registration Number	Application Date Registration Date
PATHWA	Y GENOMICS	A0020004	21-May-2010
Country:	Egypt		
Classes:	10,42		
	그 경기를 살아 하다는 그 바라 보니 그 나라		
	Y GENOMICS	8304214	15-May-2009
Country:	European Community	8304214	01-Dec-2009
Classes:	10, 42, 45		
PATHWAY	Y GENOMICS	1818835	15-May-2009
Country:	India		
Clusses:	10, 42, 45		
	GENOMICS	A0020004	21-May-2010
Country:	Int'l Registration - Madrid Agreement / Protocol	1041218	21-May-2010
Classes:	10, 42		
PATHWAY	GENOMICS	20903	24-Aug-2010
Country:	Libya		
Classes:	10		
PATHWAY	GENOMICS	20904	24-Aug-2010
Country:	Libya		
Classes:	42		
PATHWAY	GENOMICS	1087032	04-May-2010
Country:	Mexico	1197393	19 Jan-2011
Clusses:			
PATHWAY	GENOMICS	1087034	04-May-2010
Country:	Mexico	1190620	24-Nov-2010
Classes:	42		
PATERWAY	GENOMICS	20100011105	11-May-2010
Country:	Panama		
Classes:	10		
	GENOMICS	20100011104	11-May-2010
Country:	Panama		
Classes:	42		
PATHWAY	GENOMICS	420541	10-May-2010
Country:	Peru Peru	171453	30-Dec-2010
Classes:	10		
- SHOULUI			
PATHWAY	GENOMICS	420542	10-May-2010
Country:	Peru		
Classes:	42		
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	GENOMICS	A0020004	21-May-2010
Country:	Russian Federation		

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	Description	Application Number Registration Number	Application Date Registration Date
Classes:	10, 42		
	Y GENOMICS	156673	30-Jun-2010
Country;	Saudi Arabia		
Classes:	10		
	Y GENOMICS	156674	30-Jun-2010
Country: Classes:	Saudi Arabia 42		
	Y GENOMICS	142041	04-May-2010
Country: Classes:	United Arab Emirates 10		
Cinases.			
PATHWA	Y GENOMICS	142042	04-May-2010
Country:	United Arab Emirates		
Classes:	42 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
PATHWA	Y GENOMICS	77/615360	16-Nov-2008
Country:	United States of America	3811649	29-Jun-2010
Classes:	10,42		
D A 70' 8 88' 8 7' A 3	12 CONTROL AND CO	0010009090	01.12
Country:	Y GENOMICS Venezuela	2010007572	21-May-2010
Classes:	10		
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	Y GENOMICS	2010010354	30-Jun-2010
Country:	Venezuela	410105	
Classes:	42		
	GENOMICS INSIGHT	77/968244	25-Mar-2010
Country:	United States of America		
Classes:			
Pathwov M	edical Technologies, Inc. v. Pathway Genomics	Opp #91197253	
Corporation			
Country:	United States of America		
PATHWAY	NUTRITION	85/017783	19-Apr-2010
Country:	United States of America		
Classes:	42		
THE COUN	CE OF ME	77/632065	16-Dec-2008
Country:	United States of America	77/633965	10*1200-2003
Clusses:	10, 42, 45		
- 10000 400			
THE SCIEN		77/633958	16-Dec-2008
Country:	United States of America		
Classes:	10, 42, 45		The state of the s

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	Description	Application Number Registration Number	Application Date Registration Date
THE SCIEN Country: Classes:	CE OF YOU United States of America 10, 42, 45	77/633962	[6-Dec-2008
THE VALU Country: Classes:	E OF KNOWING United States of America 10, 42, 44	77/933463	11-Feb-2010
YOUR FUT Country: Classes:	URE. ONLY BETTER United States of America 10, 42, 44, 45	77/674132	19-Feb-2009
YOUR GEN Country: Classes:	ES, YOUR LIFE United States of America 10, 42, 45	77/505828	77/505828

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> TRADEMARK REEL: 004689 FRAME: 0418

RECORDED: 12/30/2011