

1) Family number: 40893074 (US2009297000A)

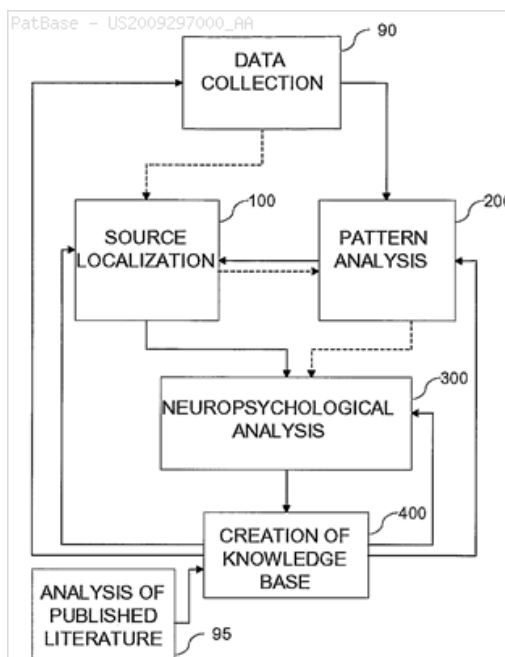
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Title: NEUROPSYCHOLOGICAL SPATIOTEMPORAL PATTERN RECOGNITION

Abstract: Systems and methods for identifying and analyzing neuropsychological flow patterns, include creating a knowledge base of neuropsychological flow patterns. The knowledge base is formed by obtaining signals from multiple research groups for particular behavioral processes, localizing sources of activity participating in the particular behavioral processes, identifying sets of patterns of brain activity for the behavioral processes and neuropsychologically analyzing the localized sources and the identified patterns for each of the research groups. The neuropsychological analysis includes identifying all possible pathways for the identified sets of patterns, ranking the possible pathways based on likelihood for the particular behavioral process and reducing the number of ranked possible pathways based on additional constraints. A system for comparison of obtained signals from an individual to the created knowledge base is provided. These obtained signals are then used to further update the existing knowledge base.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0476 G06F G06F15/18 G06F17/00 G06F17/18 G06F19/00 G06K G06K9/00 G06K9/62 G06N3/02 (Advanced/Invention); G06F15/18 G06K9/00 G06K9/62 (Core/Invention); A61B G06F G06K (Subclass/Invention)
CPC: G06K9/00543 G06K9/6224 A61B5/7246 A61B5/0476 A61B5/04008 A61B5/7275 A61B5/04012 G06F17/18 G16H50/50
European: G06F19/34H G06K9/00M3P G06K9/62B1P2
US: 1/1 382/128 382/128P 382/130 382/132 600/409 600/544 703/2 706/11 706/11P 706/15 706/15S



Family:

Publication number	Publication date	Application number	Application date
CA2653513 AA	20081125	CA20072653513	20070527
CA2653513 C	20150331	CA20072653513	20070527
EP2024901 A2	20090218	EP20070736379	20070527
IL195475 A0	20090901	IL20070195475	20070527
IL195475 A1	20151029	IL20070195475	20070527
IL206003 A0	20101130	IL20080206003	20081130
IL241842 A0	20151130	IL20070241842	20070527
IL241842 A1	20170330	IL20070241842	20070527
US2009297000 AA	20091203	US20070302271	20070527
US2011022548 AA	20110127	US20080745558	20081130
US2013080127 AA	20130328	US20120684651	20121126
US2014214730 A9	20140731	US20080745558	20081130
US2015305685 AA	20151029	US20150703913	20150505
US8320649 BB	20121127	US20070302271	20070527
US9135221 BB	20150915	US20120684651	20121126
US9730642 BB	20170815	US20150703913	20150505
WO07138579 A2	20071206	WO2007IL00639	20070527
WO07138579 A3	20080131	WO2007IL00639	20070527
WO07138579 B1	20080313	WO2007IL00639	20070527
WO09069135 A2	20090604	WO2008IL01559	20081130
WO09069135 A3	20100311	WO2008IL01559	20081130

Priority:

US20060808107P 20060525	US20070899385P 20070205	US20070302271 20070527
WO2007IL00639 20070527	US20070990945P 20071129	WO2008IL01559 20081130
US20080745558 20081130	US20090302271 20090526	IL20100206003 20100526
US20120684651 20121126	US20150703913 20150505	IL20150241842 20150924

Probable Assignee: ELMINDA LTD

Assignee(s): (std): AMIR B GEVA ; AMIT RECHES ; AYELET KANTER ; BEN BASSAT GUY ; ELMINDA LTD ; GEVA AMIR B ; ELMINDA LTD ; GODED SHAHAF ; GORDON URIT ; GEVA AMIR ; GUY BEN BASSAT ; ISRAEL TAUBER ; KANTER AYELET ; SHAHAF GODED ; SHAFAF GODED ; TAUBER ISRAEL ; PINCHUK NOGA ; RECHES AMIT ; NOGA PINCHUK ; URIT GORDON

Assignee(s): GODED SHAFAP

Inventor(s): (std): GEVA AMIR B ; SHAHAF GODED ; TAUBER ISRAEL ; RECHES AMIT ; PINCHUK NOGA ; GORDON URIT ; GEVA AMIR ; BEN BASSAT GUY ; KANTER AYELET ; SHAFAP GODED

Inventor(s): GODED SHAFAP ; AMIR B GEVA ; ISRAEL TAUBER ; GUY BEN BASSAT ; AYELET KANTER ; AMIT RECHES ; NOGA PINCHUK ; URIT GORDON ; GODED SHAFAP

Agent(s): RIDOUT AND MAYBEE LLP; BECKER KURIG STRAUS; WEBB AND CO; GE EHRlich 1995 LTD; FENNEMORE CRAIG; MARTIN D MOYNIHAN D B A PRtSI INC; WEBB AND ASSOCIATES Et AL

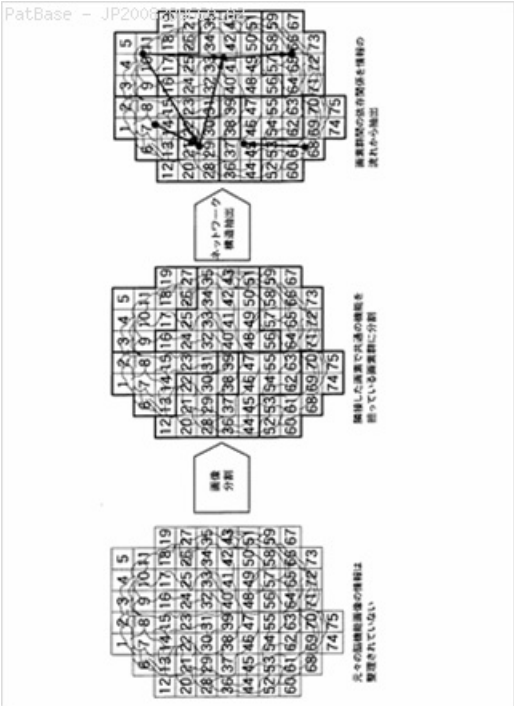
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2) Family number: 42764452 (JP2008289660A) © PatBase

Title: FUNCTIONAL BRAIN IMAGE ANALYSIS APPARATUS AND METHOD, AND PROGRAM FOR FUNCTIONAL BRAIN IMAGE ANALYSIS

Abstract: PROBLEM TO BE SOLVED: To detect relevance between areas in the brain from time series functional brain images. SOLUTION: According to one embodiment of the present invention, a functional brain image analysis apparatus includes: a functional brain image input part for inputting time series functional brain images; functional brain image analysis means for dividing the functional brain image into a plurality of areas on the basis of the time series corresponding to respective pixels in the functional brain images and calculating representative time series being time series representing respective divided areas; network structure extracting means for calculating an index showing strength of relevance between the respective divided areas on the basis of the representative time series in the respective divided areas and setting links between divided areas of strong relevance thereby extracting a network structure where each divided area is defined as one node; and a network structure output part for outputting the network structure.

Classifications:
International (IPC 8-9): A61B5/055 G01R33/54 G01T1/161 G06T1/00 (Advanced/Invention);
A61B5/055 G01R33/54 G01T1/00 G06T1/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2008289660 A2	20081204	JP20070138247	20070524

Priority:
JP20070138247 20070524

Probable Assignee: TOSHIBA CORP

Assignee(s): (std): TOSHIBA CORP

Assignee(s): TOSHIBA KK ; KABUSHIKI KAISHA TOSHIBA

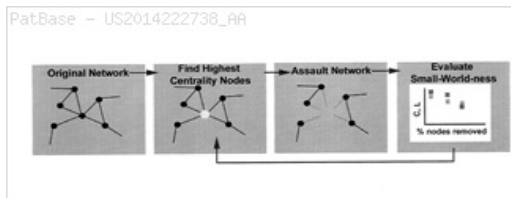
Inventor(s): (std): KAKIMOTO MITSURU

3) Family number: 52579584 (US2014222738A) © PatBase

Title: AGENT-BASED BRAIN MODEL AND RELATED METHODS

Abstract: An agent-based modeling system for predicting and/or analyzing brain behavior is provided. The system includes a computer processor configured to define nodes and edges that interconnect the nodes. The edges are defined by physiological interactions and/or anatomical connections. The computer processor further defines rules and/or model parameters that define a functional behavior of the nodes and edges. The computer processor assigns the nodes to respective brain regions, and the rules and/or model parameters are defined by observed physiological interaction of the nodes that are functionally and/or structurally connected by said edges of brain regions to thereby provide an agent-based brain model (ABBM) for predicting and/or analyzing brain behavior.

Classifications:
International (IPC 8-9): A61B5/0476 A61B5/05 A61B5/055 G06F19/00 G06N3/02 G06N3/08 G06N3/10



Family:

Publication number	Publication date	Application number	Application date
EP2718864 A2	20140416	EP20120796912	20120608
EP2718864 A4	20160629	EP20120796912	20120608
JP2014522283 T2	20140904	JP20140514896T	20120608
US2014222738 AA	20140807	US20120124407	20120608
WO12170876 A2	20121213	WO2012US41647	20120608
WO12170876 A3	20130307	WO2012US41647	20120608

Priority:

US20110495112P 20110609 US20120124407 20120608 WO2012US41647 20120608

Probable Assignee: WAKE FOREST UNIV HEALTH SCIENCES

Assignee(s): (std): HAYASAKA SATORU ; JOYCE KAREN E ; LAURIENTI PAUL J ; UNIV WAKE FOREST HEALTH ; UNIV WAKE FOREST HEALTH SCIENCES

Assignee(s): WAKE FOREST UNIV HEALTH SCIENCES ; WAKE FOREST UNIVERSITY HEALTH SCIENCES

Inventor(s): (std): HAYASAKA SATORU ; JOYCE KAREN E ; LAURIENTI PAUL J

Agent(s): KRANSELL AND WENNBORG KB; MYERS BIGEL SIBLEY AND SAJOVEC PA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 62474690 (KR101621849B)

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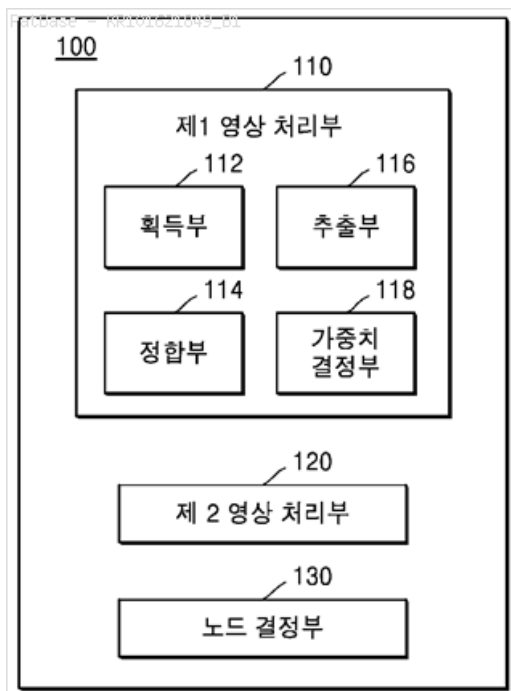
Title: APPARATUS AND METHOD FOR DETERMINING NODES FOR BRAIN NETWORK ANALYSIS

Abstract: The present invention provides a method for determining nodes for a brain network analysis and a magnetic resonance imaging apparatus. The method comprises the following steps of: determining a weight value of each divided area on the basis of how many brain nerve fibers are included in the divided areas of the brain; creating brain images given a weight value of each of divided areas for a plurality of brains respectively; matching the created brain images for each of the brains according to a predefined template and creating a group matching image; and, on the basis of weight values of the predefined areas within the group matching images and a physical distance between the predefined areas, determining a node within the group matching images.

Classifications:

International (IPC 8-9): A61B5/055 (Advanced/Invention)

CPC: A61B5/055 A61B5/0555 Y10S977/924



Family:

Publication number	Publication date	Application number	Application date
KR101621849 B1	20160531	KR20140170832	20141202

Priority:

KR20140170832 20141202

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): KWON HUN KI ; LEE JONG MIN ; LEE JUN KI ; PARK JUN SUNG

5) Family number: 48204710 (US2011022355A)

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Title: NETWORK CHARACTERIZATION, FEATURE EXTRACTION AND APPLICATION TO CLASSIFICATION

Abstract: Methods, systems and apparatus for characterizing networks are presented. For example, a method of characterizing a network represented by a plurality of nodes and a plurality of edges is provided. The method may be implemented on a processor device and includes calculating, for example, by the processor device, a passthrough count of at least a portion of the network. The passthrough count includes a count of a number of passthroughs in the at least a portion of the network. A passthrough includes one of the plurality of nodes, a directed edge of the plurality of edges coupled to the one of the plurality of nodes, and another edge of the plurality of edges coupled to the one of the plurality of nodes. At most one of the directed edge and the other edge is directed towards the one of the plurality of nodes. At most one of the directed edge and the other edge is directed away from the one of the plurality of nodes.

Classifications:

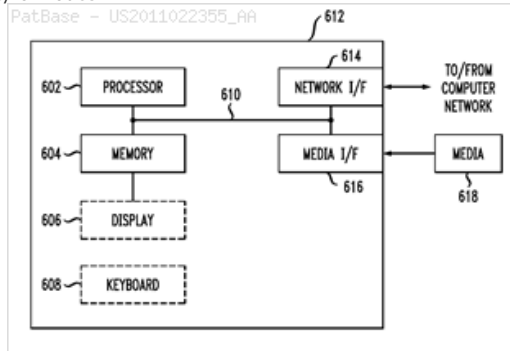
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G06N5/02 (Advanced/Invention)

CPC: G06K9/6296 G16H50/70 G06N20/00

European: G06F19/34J G06K9/62G

US: 702/182 702/182P 706/46



Family:

Publication number	Publication date	Application number	Application date
US2011022355 AA	20110127	US20090508791	20090724
US8271414 BB	20120918	US20090508791	20090724

Priority:

US20090508791 20090724

Probable Assignee: MOUNT SINAI SCHOOL OF MEDICINE OF NEW YORK UNIV

Assignee(s): (std): CECCHI GUILLERMO ALBERTO ; IBM ; IYENGAR SRINIVAS RAVI VIRARAGHAV ; MA AYAN AVI ; SINAI SCHOOL MEDICINE ; RAO RAVISHANKAR ; STOLOVITZKY GUSTAVO ALEJANDRO ; WAGNER JOHN MICHAEL

Assignee(s): MOUNT SINAI SCHOOL OF MEDICINE OF NEW YORK UNIV ; INT BUSINESS MACHINES CORP

Inventor(s): (std): CECCHI GUILLERMO ALBERTO ; MA AYAN AVI ; IYENGAR SRINIVAS RAVI VIRARAGHAV ; RAO RAVISHANKAR ; STOLOVITZKY GUSTAVO ALEJANDRO ; WAGNER JOHN MICHAEL

Inventor(s): MA'AYAN AVI

Agent(s): RYAN MASON AND LEWIS LLP; VAZKEN

6) Family number: 43761776 (US2009299645A)

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Title: GENETIC ANALYSIS

Abstract: The present invention provides methods for generating genetic profiles or analyses. Included are methods for conducting comprehensive, dynamic genetic analysis. Also provided are methods for determining genetic health scores for specific phenotypes, such as diseases, disorders, traits, and conditions, as well as for organ systems, for certain medical specialties, and for overall health.

Classifications:

International (IPC 8-9): C07H21/04 C12N C12N15/11 C12Q C12Q1/68 C40B30/00 C40B30/02 C40B40/06 C40B40/08 G06F17/30 G06F19/00 G06F19/20 G06F19/22 G06N5/02 G06N5/04 G06Q

G06Q50/00 (Advanced/Invention);

G06N5/00 (Advanced/Non-invention);

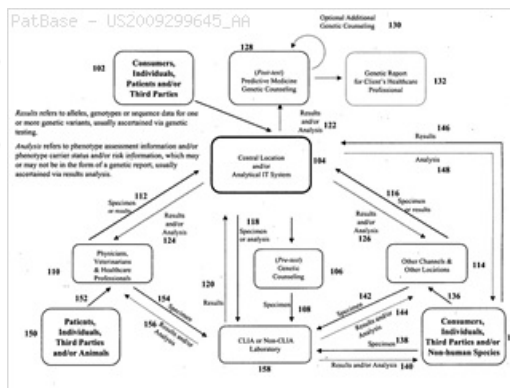
C07H21/00 C12N15/11 C12Q1/68 C40B30/00 C40B40/04 G06F17/30 G06F19/00 G06N5/00 G06Q50/00 (Core/Invention);

G06N5/00 (Core/Non-invention)

CPC: G16H50/30 Y02A90/22 Y02A90/26 C12Q1/6883 C12Q1/6886 C12Q2600/118 C12Q2600/156 C12Q2600/172 G06Q50/22 G16B20/00 C12Q2600/124

European: C12Q1/68M6 C12Q1/68M6B G06F19/34G G06Q50/22 M12Q600/118 M12Q600/156 M12Q600/172 S06F19/18

US: 435/6 435/6.11 435/6.110S 435/6S 506/17 506/17S 506/7 506/7S 536/24.31 536/24.310S 702/19 702/19P 705/2 705/2S 706/45 706/45S 706/54 706/54P 707/104.1 707/999.104 707/999.104S 707/999.107 707/999.107S 707/E17.009 707/E17.009S 707/E17.044 707/E17.044S



Family:

Publication number	Publication date	Application number	Application date
AU20092226083 AA	20090924	AU200902226083	20090318
CA2718887 AA	20100917	CA20092718887	20090318
EP2227780 A2	20100915	EP20090700016	20090318
EP2227780 A4	20110803	EP20090700016	20090318
HK1148376 A1	20110902	HK20110102399	20110310

US2009299645 AA	20091203	US20090383123	20090318
US2009307179 AA	20091210	US20090383110	20090318
US2009307180 AA	20091210	US20090383117	20090318
US2009307181 AA	20091210	US20090383122	20090318
WO09117122 A2	20090924	WO2009US01733	20090318
WO09117122 A3	20100107	WO2009US01733	20090318
WO09117122 A8	20100408	WO2009US01733	20090318

Priority:

US20080037959P 20080319	US20080050126P 20080502	US20080136266P 20080822
US20080091342P 20080822	US20080136266 20080822	US20080198765P 20081107
US20090383123 20090318	US20090383117 20090318	US20090383122 20090318
US20090383110 20090318	WO2009US01733 20090318	

Probable Assignee: EXISTENCE GENETICS LLC

Assignee(s): (std): COLBY BRANDON ; COLBY BRYON ; COLBY MELVYN ; EXISTENCE GENETICS LLC ; SLATER BETHANY ; SLATER BATHANY

Assignee(s): COLBY SUSAN

Inventor(s): (std): COLBY MELVYN ; COLBY BRYON ; COLBY BRANDON ; SLATER BATHANY ; SLATER BETHANY

Inventor(s): MELVYN COLBY ; BRYON COLBY ; BRANDON COLBY ; BETHANY SLATER

Agent(s): PIZZEYS ; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD ; OSLER HOSKIN AND HARCOURT LLP ; ROQUES SARAH ELIZABETH ; GLOBAL IP AGENT CO LTD ; WILSON SONSINI GOODRICH AND ROSATI ; GOETZ DAVID H ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 40997855 (US2007299802A)

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Title: HUMAN LEVEL ARTIFICIAL INTELLIGENCE SOFTWARE APPLICATION FOR MACHINE AND COMPUTER BASED PROGRAM FUNCTION

Abstract: A method of creating human level artificial intelligence in machines and computer software is presented here, as well as methods to simulate human reasoning, thought and behavior. The present invention serves as a universal artificial intelligence program that will store, retrieve, analyze, assimilate, predict the future and modify information in a manner and fashion which is similar to human beings and which will provide users with a software application that will serve as the main intelligence of one or a multitude of computer based programs, software applications, machines or compilation of machinery.

Classifications:

International (IPC 8-9): A63F9/00 G05B19/04 G06F15/18 G06F17/00 G06F17/30 G06F9/44 G06K9/62 G06N3/02 G06N5/02 G06N5/04

G06N7/00 G06N7/02 (Advanced/Invention);

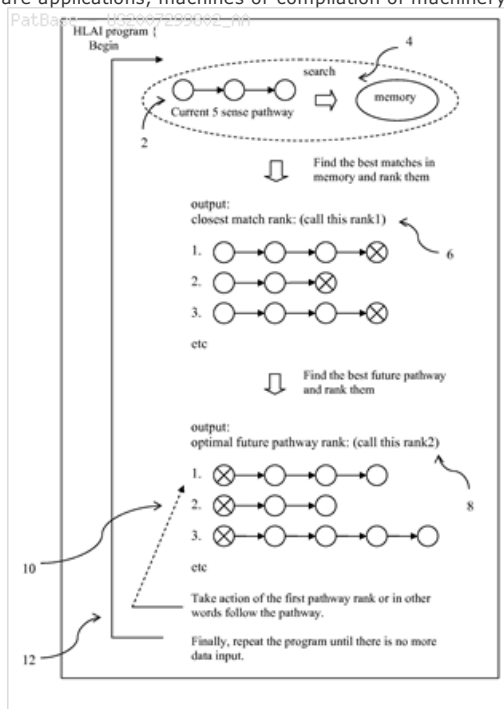
A63F9/00 G05B19/04 G06F15/18 G06F17/00 G06F17/30 G06F9/44

G06K9/62 G06N3/00 G06N5/00 G06N7/00 (Core/Invention)

CPC: G06N3/006 G06N3/008 Y02B10/30 G06N3/004 G06N7/005 G06N7/02

European: G06N3/00L G06N3/00L1 G06N3/00L3 G06N7/00P G06N7/02 Y02B10/30

US: 382/160 463/42 700/246 700/246S 706/12 706/12P 706/12S 706/20 706/20P 706/21 706/21S 706/46 706/46P 706/48 706/48S 706/50 706/50S 706/52 706/52P 706/59 706/59P 706/59S 707/3 707/999.003 707/999.003S 718/1 718/1S 901/47 901/50 901/50S



Family:

Publication number	Publication date	Application number	Application date
US2007299802 AA	20071227	US20070770734	20070629
US2008243745 AA	20081002	US20070744767	20070504
US2008243750 AA	20081002	US20070936725	20071107
US2008256008 AA	20081016	US20080129231	20080529
US2008281766 AA	20081113	US20080135132	20080606
US2009012920 AA	20090108	US20080014742	20080115
US2009164397 AA	20090625	US20080110313	20080426
US2009234788 AA	20090917	US20090471382	20090524
US2011093418 AA	20110421	US20100973955	20101221

Priority:

US20070909437P 20070331	US20070744767 20070504	US20070770734 20070629
US20070936725 20071107	US20070015201P 20071220	US20080014742 20080115

US20080028885P 20080214

US20080110313 20080426

US20080073256P 20080617

US20080079109P 20080708

US20090155113P 20090224

US20080035645P 20080311

US20080129231 20080529

US20080074634P 20080622

US20080080910P 20080715

US20090471382 20090524

US20080042733P 20080405

US20080135132 20080606

US20080077178P 20080701

US20080083930P 20080727

US20100973955 20101221

Probable Assignee:

Assignee(s): (std):

Inventor(s): (std):

Agent(s):

KWOK MITCHELL

KWOK MITCHELL

KWOK MITCHELL

MITCHELL KWOK

8) Family number: 53002906 (US2014228242A)

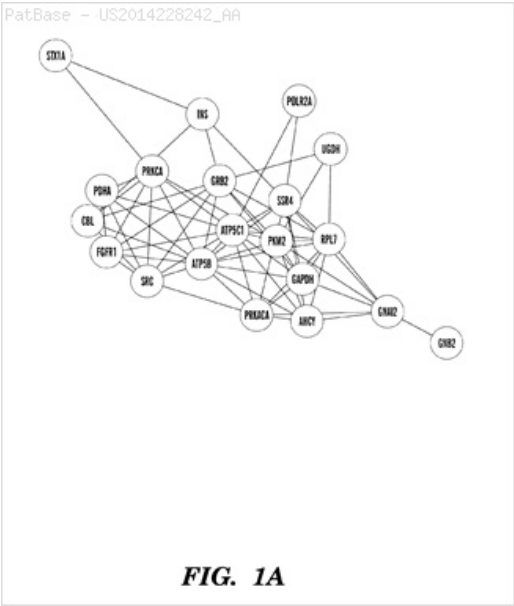
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Title: QUANTITATIVE GENOMICS OF THE RELAXATION RESPONSE

Abstract: Disclosed herein are assays for and methods of monitoring the relaxation response in a subject by measuring the expression level of one or more genes that are modulated in a relaxation response. Primers, probes and kits for use in the assays and methods are also provided.

Classifications:

International (IPC 8-9): C12N15/00 C12Q1/68 G06F19/20
G06Q50/00 (Advanced/Invention)
CPC: C12Q1/6809 G06Q10/10 G06Q50/22 C12Q2600/158
C12Q1/6876 C12Q2600/156 C12Q1/6883 Y02A90/22 G16B25/00
US: 435/6.11 506/17 506/9



Family:

Publication number	Publication date	Application number	Application date
US2014228242 AA	20140814	US20120236124	20120803
WO13020057 A1	20130207	WO2012US49539	20120803

Priority:

US20110514770P 20110803 US20120236124 20120803 WO2012US49539 20120803

Probable Assignee: GENERAL HOSPITAL CORP

Assignee(s): (std): BETH ISRAEL HOSPITAL ; BHASIN MANOJ KUMAR ; FRICCHIONE GREGORY ; LIBERMANN TOWIA ARON ; DUSEK JEFFERY A ; GEN HOSPITAL CORP ; BENSON HERBERT

Assignee(s): BETH ISRAEL DEACONESS MEDICAL CENTER INC ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; NIH DEITR ; GENERAL HOSPITAL CORP

Inventor(s): (std): BENSON HERBERT ; BHASIN MANOJ KUMAR ; DUSEK JEFFERY A ; FRICCHIONE GREGORY ; LIBERMANN TOWIA ARON

Agent(s): RESNICK DAVID S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW