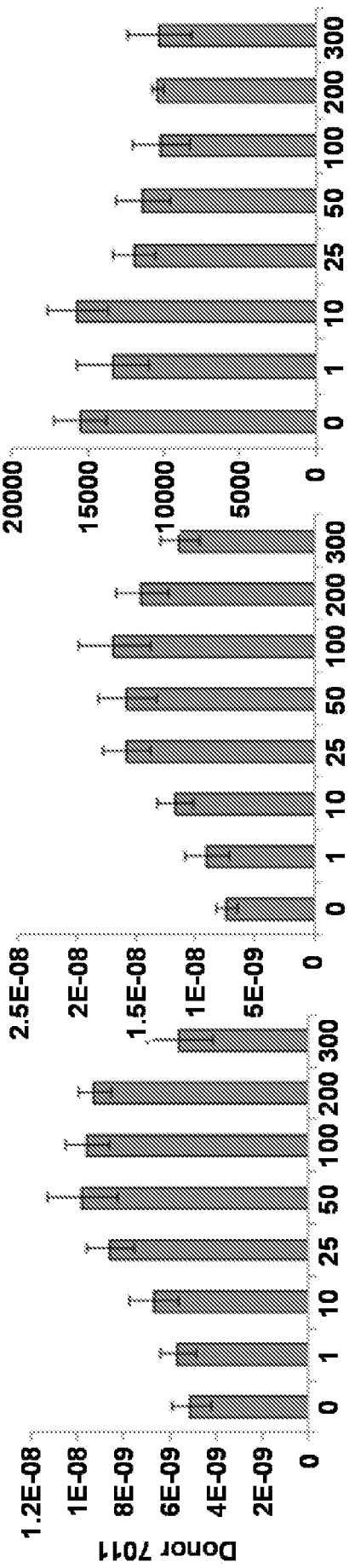


FIG. 1A

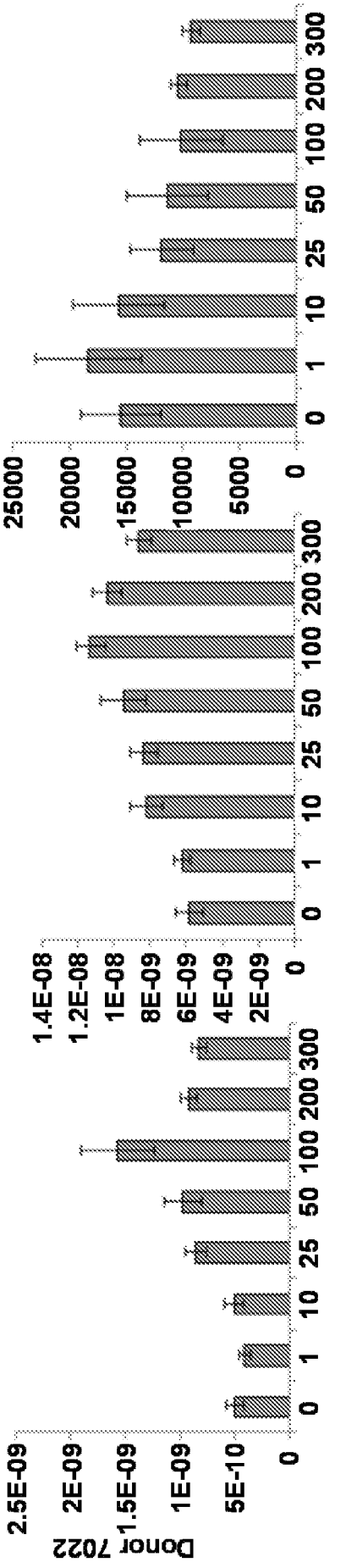


FIG. 1B

FIG. 1C

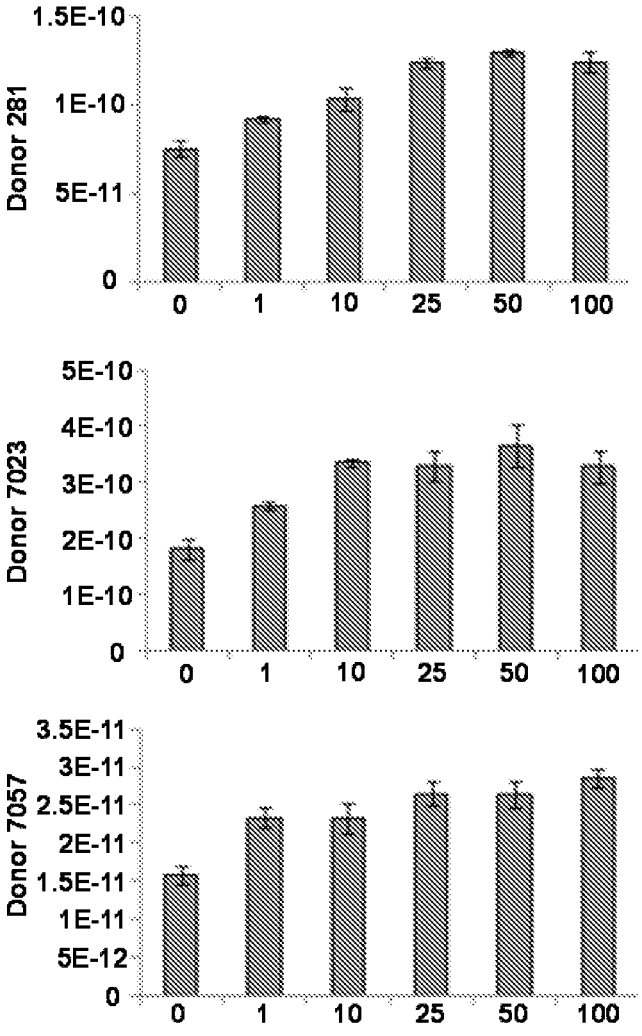

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1E-10
5E-11
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0 1 10 25 50 100
Donor 7023
5E-10
4E-10
3E-10
2E-10
1E-10
0
0 1 10 25 50 100
Donor 7057
3.5E-11
3E-11
2.5E-11
2E-11
1.5E-11
1E-11
5E-12
0
0 1 10 25 50 100

FIG. 2A

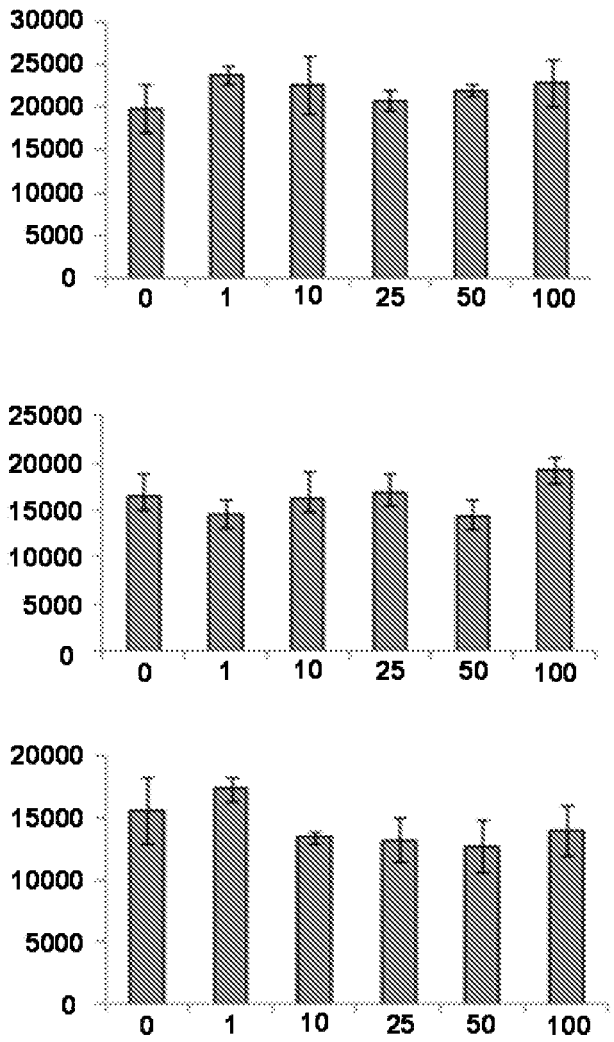

30000
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20000
15000
10000
5000
0
0 1 10 25 50 100
25000
20000
15000
10000
5000
0
0 1 10 25 50 100
20000
15000
10000
5000
0
0 1 10 25 50 100

FIG. 2B

Cat.	Term	RT	Count	%	P-Value	Benjamini
A	Bone normal 3rd ⇦	RT	21	6.7	4.6E-14	1.9E-10
A	Bone neoplasia 3rd	RT	15	4.8	6.8E-9	1.4E-5
A	Uncharacterized tissue normal 3rd	RT	17	5.4	1.2E-7	1.6E-4
A	Eye normal 3rd	RT	13	4.2	1.6E-6	1.6E-3
A	bone marrow normal 3rd	RT	11	3.5	1.7E-6	1.4E-3
A	uncharacterized tissue neoplasia 3rd	RT	7	2.2	3.7E-6	2.5E-3
A	uncharacterized tissue uncharacterized histology 3rd	RT	10	3.2	7.2E-6	4.2E-3
B	Plasma	RT	17	5.4	1.0E-5	2.0E-3
A	prostate normal 3rd	RT	8	2.6	1.9E-5	9.6E-3
B	Aorta	RT	11	3.5	2.4E-5	2.3E-3
A	uncharacterized tissue neoplasia 3rd	RT	8	2.6	3.0E-5	1.4E-2
A	placenta normal 3rd	RT	10	3.2	3.4E-5	1.4E-2
B	Liver	RT	55	17.6	4.5E-5	2.9E-3
A	Cartilage normal 3rd	RT	8	2.6	4.7E-5	1.7E-2
A	Placenta normal 3rd	RT	10	3.2	7.5E-5	2.5E-2
A	uncharacterized tissue neoplasia 3rd	RT	9	2.9	7.6E-5	2.4E-2
A	cartilage uncharacterized histology 3rd	RT	9	2.9	8.9e-5	2.6E-2
A	memory gland normal 3rd	RT	9	2.9	2.0E-4	5.3E-2
A	synovium uncharacterized histology 3rd	RT	11	3.5	2.1E-4	5.2E-2
A	cartilage neoplasia 3rd	RT	9	2.9	2.7E-4	6.4E-2
A	uterus uncharacterized histology 3rd	RT	12	3.8	3.7E-4	8.2E-2
A	vascular normal 3rd	RT	14	4.5	3.8E-4	8.0E-2
A	lung normal 3rd	RT	7	2.2	4.6E-4	9.0E-2
A	placenta normal 3rd	RT	9	2.9	5.3E-4	9.9E-2
A	uncharacterized tissue neoplasia 3rd	RT	8	2.6	5.6E-4	1.0E-1
A	Colon neoplasia 3rd	RT	8	2.6	6.4E-4	1.1E-1
A	cartilage uncharacterized histology 3rd	RT	8	2.6	7.2E-4	1.2E-1
A	Eye normal 3rd	RT	5	1.6	7.4E-4	1.2E-1
A	placenta normal 3rd	RT	6	1.9	7.7E-4	1.2E-1
A	prostate normal 3rd	RT	5	1.6	8.6E-4	1.2E-1
A	uncharacterized tissue neoplasia 3rd	RT	9	2.9	9.9E-4	1.4E-1

A – CGAP_EST_QUARTILE
B – UP_TISSUE

FIG. 3

Cat.	Term	RT	Count	%	P-Value
B	Plasma	RT	10	9.9	1.4E-5
A	Bone normal 3rd	RT	7	6.9	3.2E-5
A	Cartilage normal 3rd	RT	5	5.0	1.5E-4
A	uncharacterized tissue normal 3rd	RT	7	6.9	8.2E-4
A	placenta normal 3rd	RT	5	5.0	1.8E-3
A	uncharacterized tissue normal 3rd	RT	6	5.9	1.9E-3
A	gastrointestinal tract uncharacterized histology 3rd	RT	5	5.0	2.6E-3
A	Eye normal 3rd	RT	7	6.9	3.8E-3
A	head and neck neoplasia 3rd	RT	4	4.0	6.4E-3
A	uncharacterized tissue neoplasia 3rd	RT	3	3.0	6.5E-3
A	Uncharacterized tissue uncharacterized histology 3rd	RT	4	4.0	7.4E-3
A	Prostate normal 3rd	RT	3	3.0	7.4E-3
B	Cartilage	RT	3	3.0	7.6E-3
A	Thymus uncharacterized histology 3rd	RT	4	4.0	7.7E-3
A	uncharacterized tissue uncharacterized histology 3rd	RT	4	4.0	7.9E-3
B	Prostate	RT	9	8.9	8.1E-3
A	Uncharacterized tissue uncharacterized histology 3rd	RT	4	4.0	8.4E-3
A	placenta normal 3rd	RT	3	3.0	9.0E-3
A	uncharacterized tissue uncharacterized histology 3rd	RT	4	4.0	9.3E-3
A	stomach normal 3rd	RT	3	3.0	1.2E-2
A	placenta normal 3rd	RT	4	4.0	1.3E-2
A	Bone neoplasia 3rd	RT	4	4.0	1.6E-2
A	placenta normal 3rd	RT	5	5.0	1.8E-2
B	Blood	RT	9	8.9	1.9E-2
A	colon neoplasia 3rd	RT	4	4.0	2.1E-2
A	Colon normal	RT	3	3.0	2.3E-2
A	cerebrum normal 3rd	RT	3	3.0	2.3E-2
A	prostate normal 3rd	RT	3	3.0	2.3E-2
A	thyroid neoplasia 3rd	RT	3	3.0	2.3E-2
A	synovium uncharacterized histology 3rd	RT	4	4.0	2.5E-2
A	cartilage normal 3rd	RT	5	5.0	2.6E-2

A – CGAP_EST_QUARTILE
B – UP_TISSUE

FIG. 4

Cat.	Term	RT	Count	%	P-Value	Benjamini
B	Epithelium	RT	151	29.2	1.6E-23	3.4E-21
A	thyroid neoplasia 3rd	RT	19	3.7	3.4E-10	1.8E-6
A	uterus neoplasia 3rd	RT	17	3.3	1.5E-9	4.1E-6
A	uncharacterized tissue neoplasia 3rd	RT	19	3.7	4.8E-9	8.4E-6
A	Lymph node normal 3rd	RT	21	4.1	5.6E-8	7.4E-5
B	Brain	RT	260	50.2	6.0E-8	6.6E-6
A	uterus uncharacterized histology 3rd	RT	13	2.5	8.5E-8	9.0E-5
A	Nervous normal 3rd	RT	26	5.0	1.0E-7	8.9E-5
A	Soft tissue normal 3rd	RT	20	3.9	1.5E-7	1.1E-4
A	Uncharacterized tissue uncharacterized histology 3rd	RT	22	4.2	1.5E-7	1.0E-4
A	Placenta normal 3rd	RT	16	3.1	2.8E-7	1.6E-4
A	placenta normal 3rd	RT	15	2.9	4.1E-7	2.2E-4
A	Thyroid neoplasia 3rd	RT	16	3.1	4.2E-7	2.0E-4
A	Mammary gland normal 3rd	RT	17	3.3	4.4E-7	2.0E-4
A	Head and neck neoplasia 3rd	RT	17	3.3	4.9E-7	2.0E-4
A	bone normal 3rd	RT	21	4.1	6.2E-7	2.3E-4
A	placenta normal 3rd	RT	14	2.7	7.3E-7	2.6E-4
A	thymus normal 3rd	RT	18	3.5	9.4E-7	3.1E-4
A	placenta normal 3rd	RT	13	2.5	1.0E-6	3.2E-4
A	Brain neoplasia 3rd	RT	24	4.6	1.1E-6	3.3E-4
A	uterus uncharacterized histology 3rd	RT	16	3.1	1.4E-6	3.8E-4
A	Testis normal 3rd	RT	13	2.5	1.5E-6	3.9E-4
A	lymph node normal 3rd	RT	19	3.7	1.6E-6	4.2E-4
A	brain neoplasia 3rd	RT	13	2.5	1.9E-6	4.5E-4
A	Placenta normal 3rd	RT	8	1.5	2.7E-6	6.1E-4
A	Mammary gland neoplasia 3rd	RT	11	2.1	3.3E-6	7.3E-4
A	Colon neoplasia 3rd	RT	15	2.9	4.9E-6	1.0E-3
A	Prostate normal 3rd	RT	15	2.9	4.9E-6	1.0E-3
A	Testis normal 3rd	RT	10	1.9	7.1E-6	1.4E-3
A	placenta normal 3rd	RT	10	1.9	7.1E-6	1.4E-3
A	stomach normal 3rd	RT	9	1.7	7.4E-6	1.5E-3

A – CGAP_EST_QUARTILE
B – UP_TISSUE

FIG. 5

Donor	Term	RT	Count	%	P-Value	Benjamini
281	ECM receptor interaction	RT	13	4.2	1.8E-8	1.8E-6
	vascular smooth muscle contraction	RT	10	3.2	1.4E-4	7.1E-3
	focal adhesion	RT	13	4.2	1.9E-4	6.4E-3
7023	ECM receptor interaction	RT	5	5.0	9.1E-4	3.3E-2
	focal adhesion	RT	5	5.0	2.0E-2	3.2E-1
7057	axon guidance	RT	11	2.1	1.2E-3	1.2E-1
	endometrial cancer	RT	7	1.4	1.6E-3	8.4E-2
	focal adhesion	RT	13	2.5	3.6E-3	1.3E-1

FIG. 6

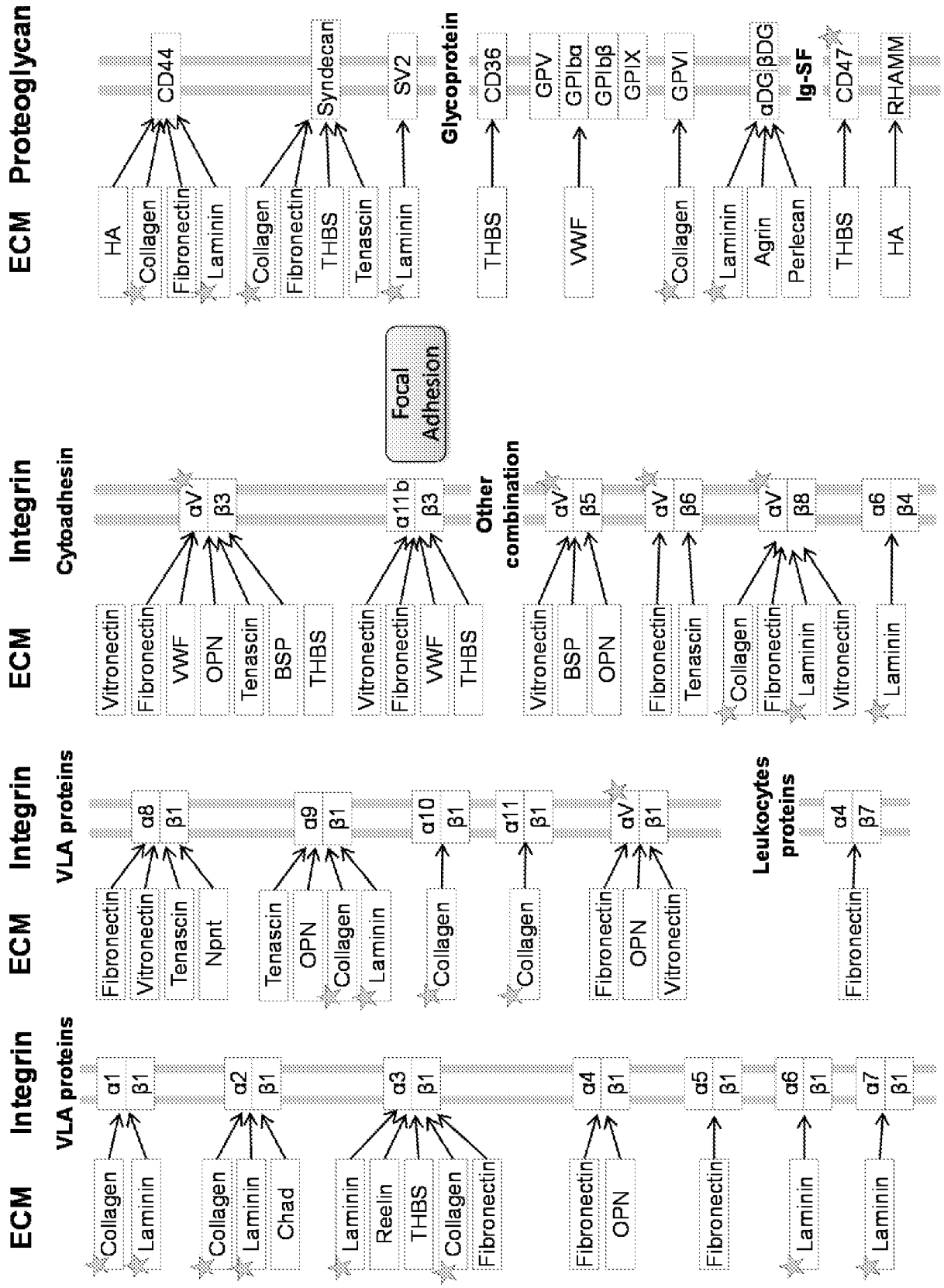

ECM Integrin
VLA proteins
α1 β1
Collagen
Laminin
α2 β1
Collagen
Laminin
Chad
α3 β1
Laminin
Reelin
THBS
Collagen
Fibronectin
α4 β1
Fibronectin
OPN
α5 β1
Fibronectin
α6 β1
Laminin
α7 β1
Laminin
ECM Integrin
VLA proteins
α8 β1
Fibronectin
Vitronectin
Tenascin
Npnt
α9 β1
Tenascin
OPN
Collagen
Laminin
α10 β1
Collagen
α11 β1
Collagen
αV β1
Fibronectin
OPN
Vitronectin
Leukocytes proteins
α4 β7
Fibronectin
ECM Integrin
Cytoadhesin
αV β3
Vitronectin
Fibronectin
VWF
OPN
Tenascin
BSP
THBS
α11b β3
Vitronectin
Fibronectin
VWF
THBS
Focal Adhesion
Other combination
αV β5
Vitronectin
BSP
OPN
αV β6
Fibronectin
Tenascin
αV β8
Collagen
Fibronectin
Laminin
Vitronectin
α6 β4
Laminin
ECM Proteoglycan
HA
Collagen
Fibronectin
Laminin
CD44
Collagen
Fibronectin
THBS
Tenascin
Syndecan
Laminin
SV2
Glycoprotein
THBS
CD36
VWF
GPV
GPIbα
GPIbβ
GPIX
Collagen
GPVI
Laminin
Agrin
Perlecan
αDG βDG
Ig-SF
THBS
CD47
HA
RHAMM

FIG. 7

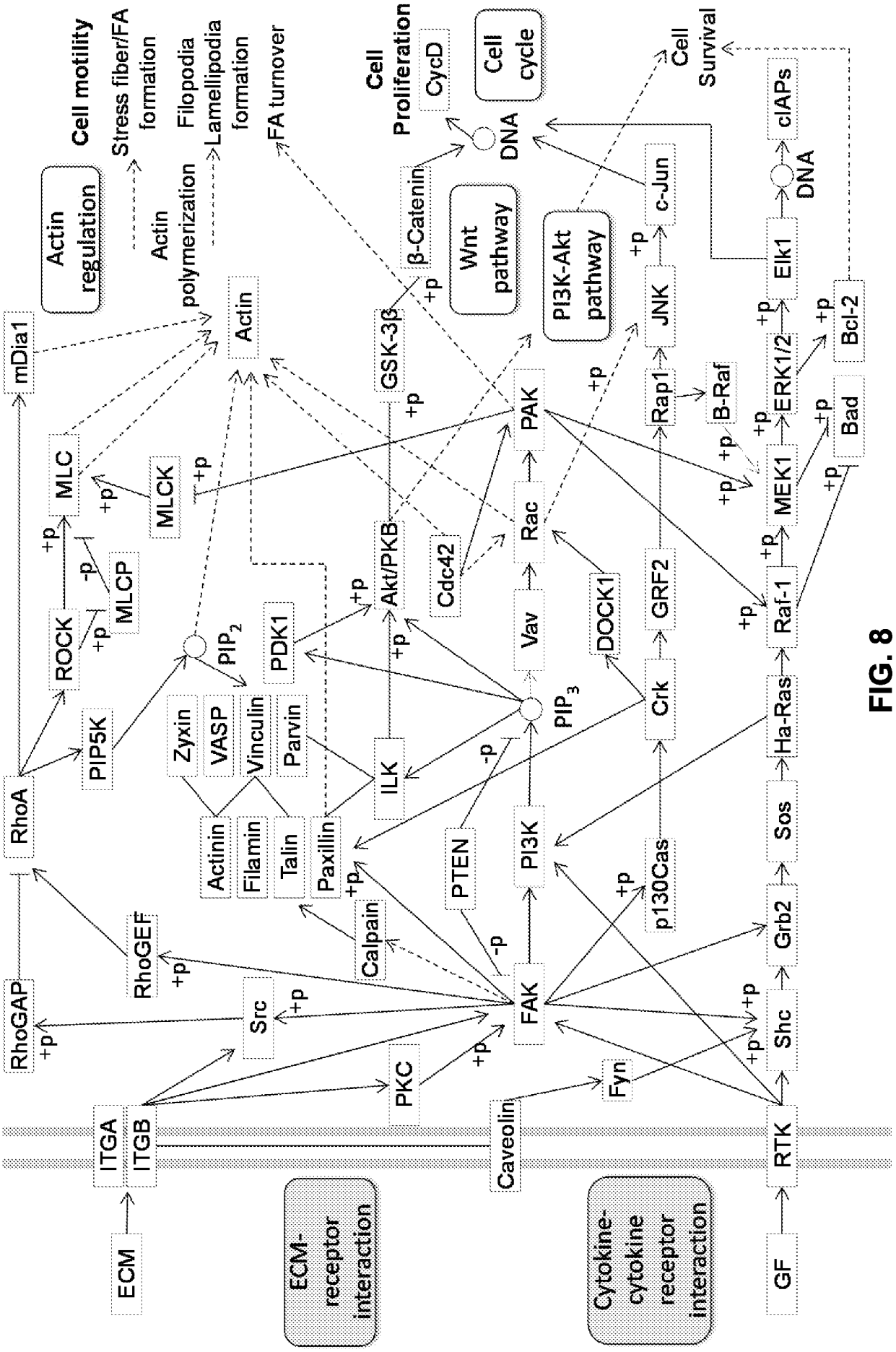

Cell motility
Stress fiber/FA formation
Filopodia Lamellipodia formation
FA turnover
Actin regulation
Actin polymerization
Actin
mDia1
MLC
MLCK
MLCP
ROCK
PIP5K
RhoA
RhoGAP
RhoGEF
Src
Calpain
Zyxin
VASP
Vinculin
Parvin
Actinin
Filamin
Talin
Paxillin
ILK
PIP2
PDK1
Akt/PKB
PTEN
PI3K
PIP3
FAK
PKC
Fyn
Caveolin
ITGA
ITGB
ECM
ECM-receptor interaction
Cell Proliferation
CycD
Cell cycle
DNA
β-Catenin
Wnt pathway
GSK-3β
Cdc42
Rac
PAK
Vav
DOCK1
PI3K-Akt pathway
Cell Survival
c-Jun
JNK
Rap1
B-Raf
GRF2
Crk
p130Cas
Grb2
Sos
Ha-Ras
Raf-1
MEK1
ERK1/2
Elk1
cIAPs
Bad
Bcl-2
RTK
Shc
GF
Cytokine-cytokine receptor interaction
+p
-p

FIG. 8

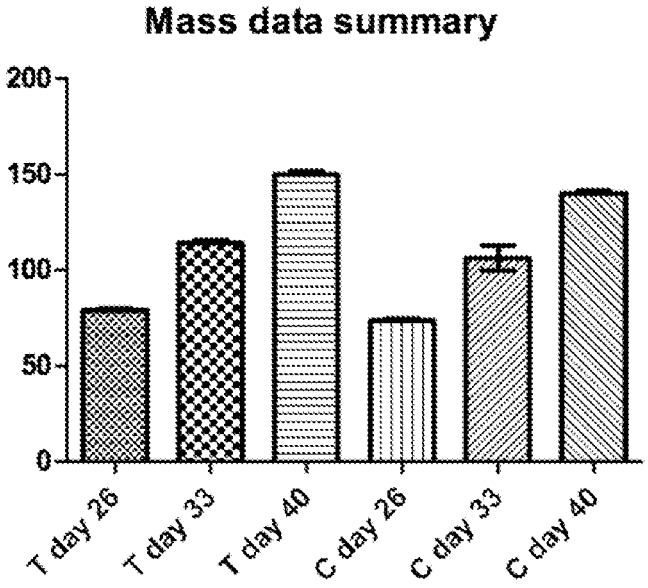


FIG. 9A

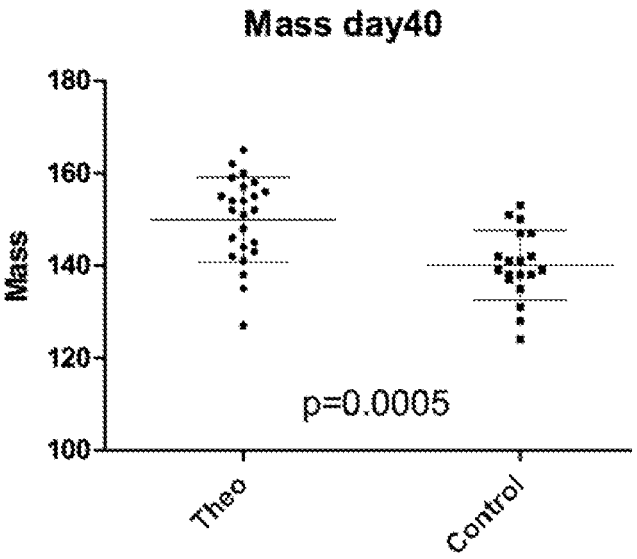


FIG. 9B

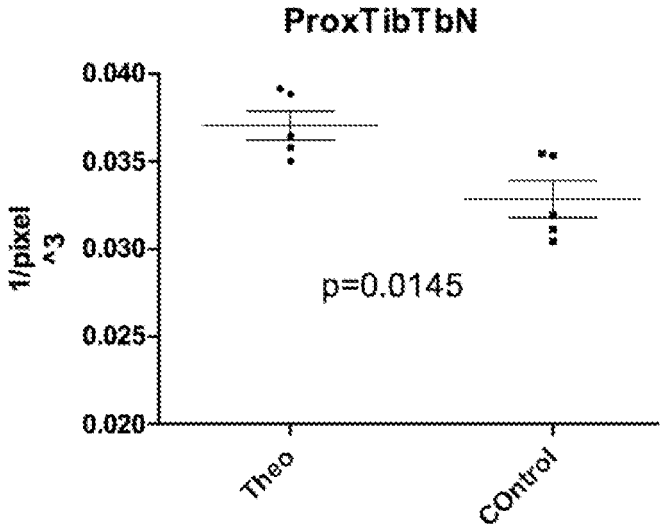


FIG. 9C

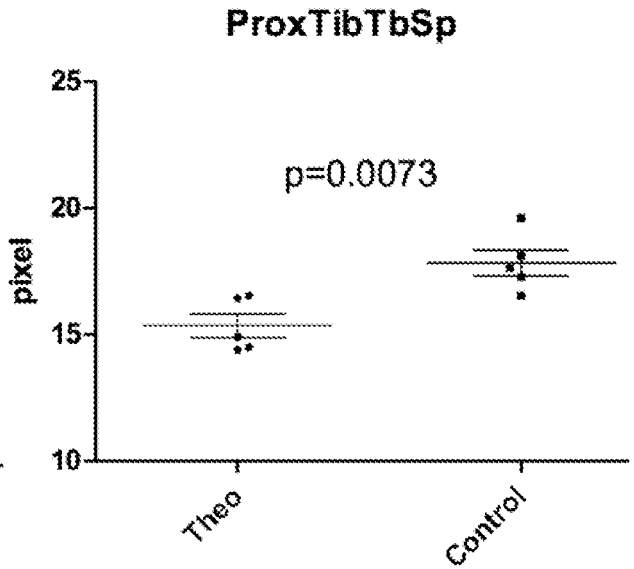


FIG. 9D

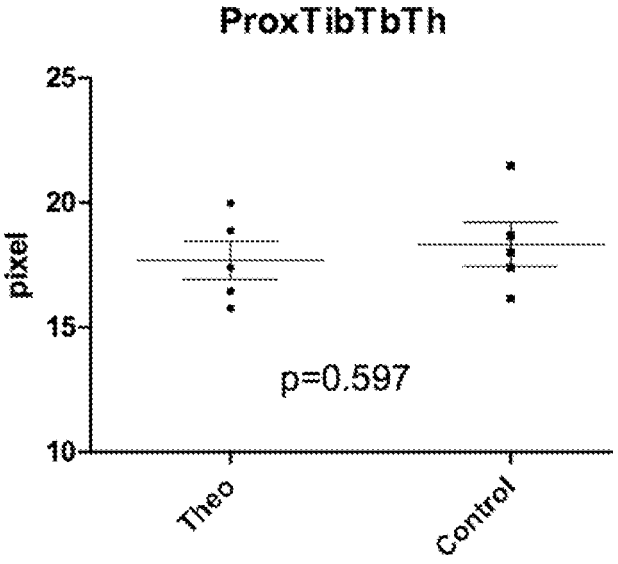


FIG. 9E

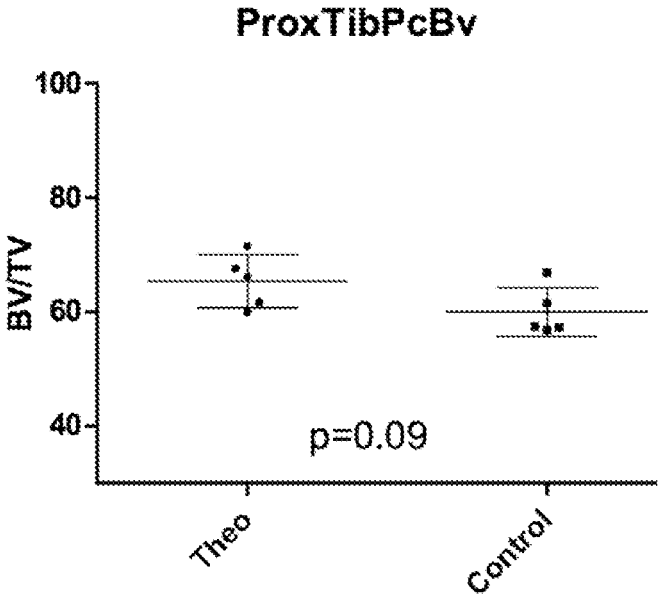


FIG. 9F

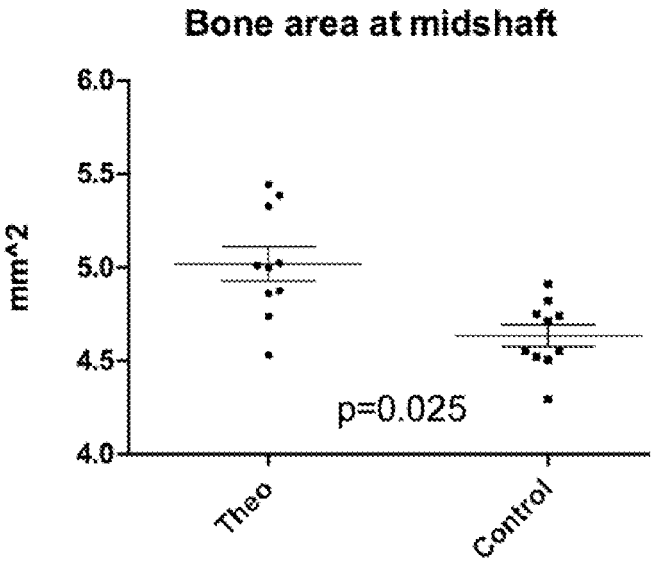


FIG. 9G

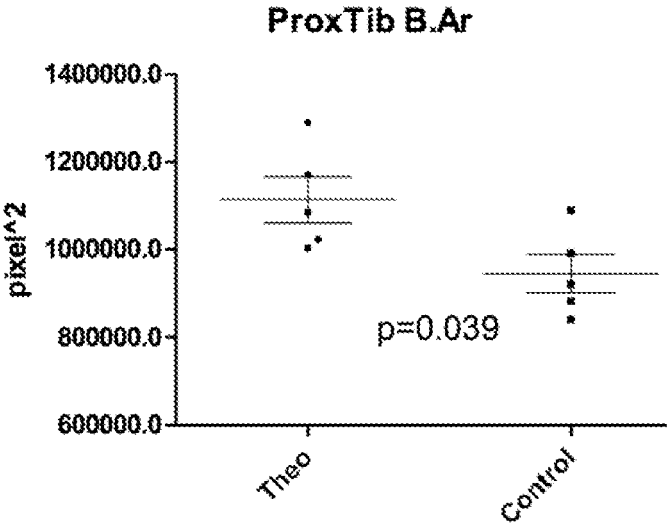


FIG. 9H

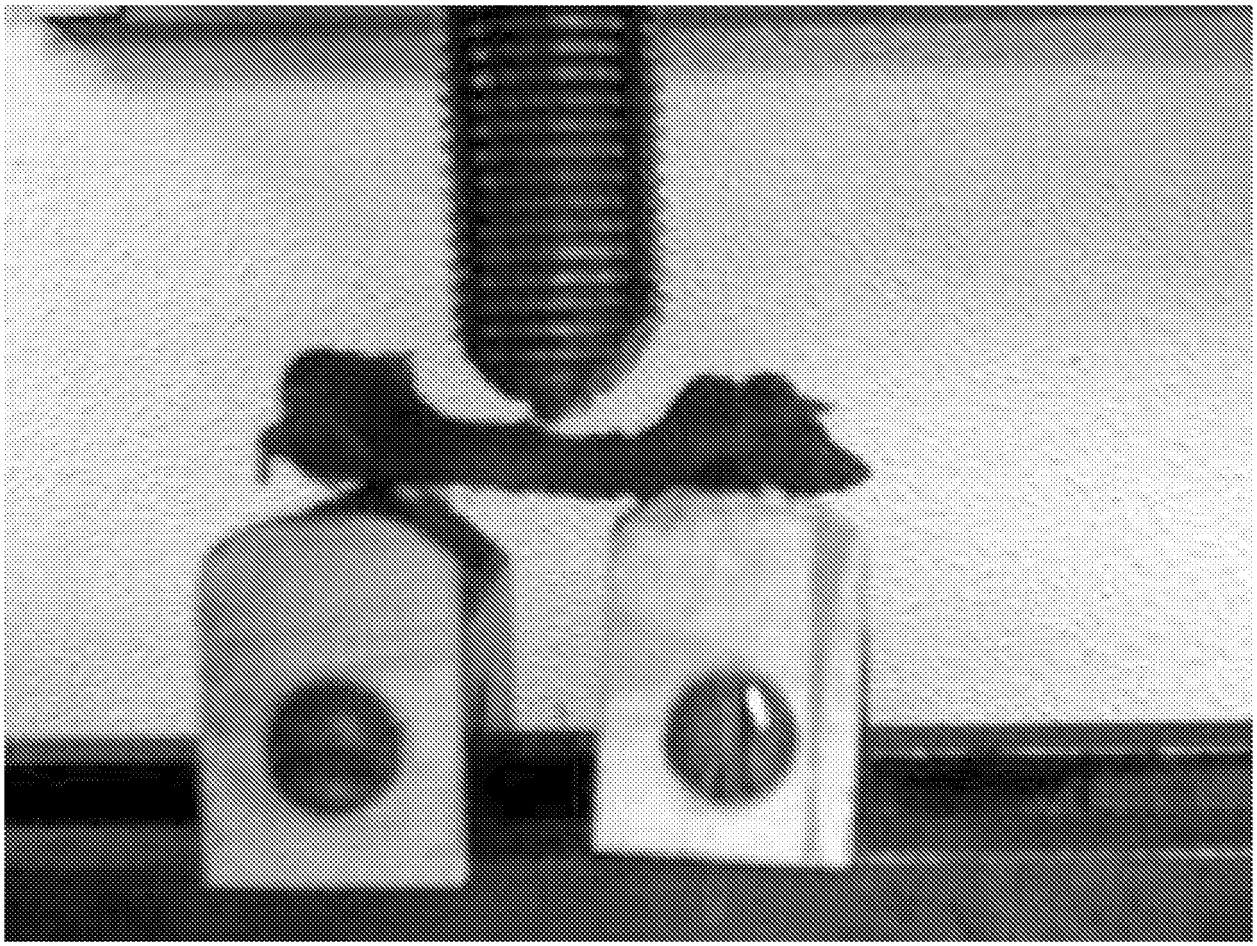


FIG. 10