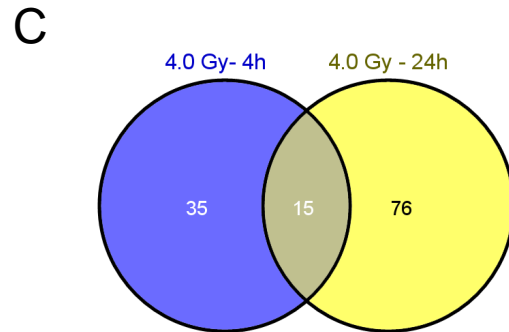
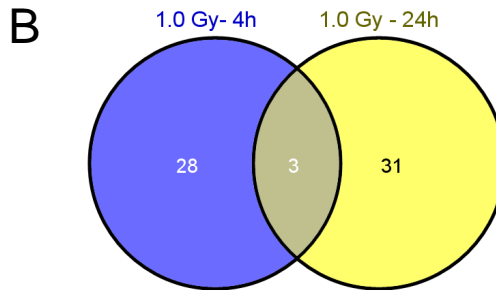
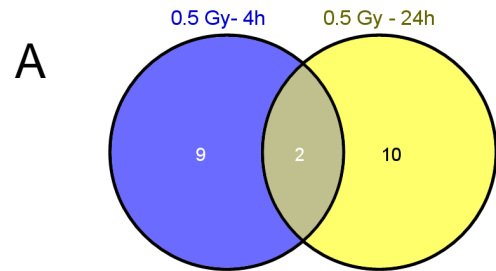


SI Figure S1



D

Accession number	Symbol	Name	0.5 Gy - 4h	Variability [%]	0.5 Gy - 24h	Variability [%]
ENSMUSP00000029405	Gmps	guanine monophosphate synthetase	1.65	14.9	1.49	13.5
ENSMUSP00000048425	Pebp1	phosphatidylethanolamine binding protein 1	1.36	27.8	1.35	28.3

E

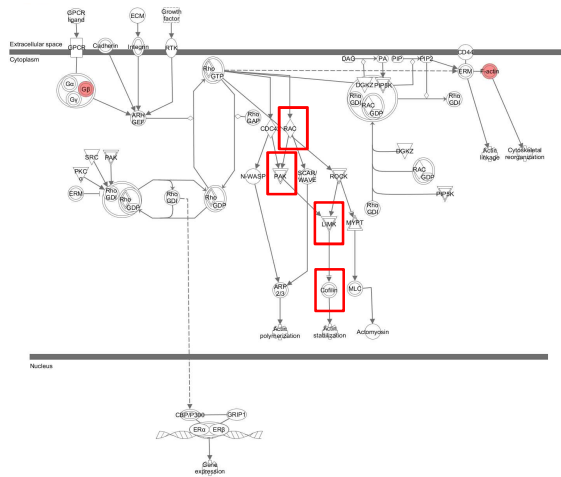
Accession number	Symbol	Name	1.0 Gy - 4h	Variability [%]	1.0 Gy - 24h	Variability [%]
ENSMUSP00000016703	H3f3b	H3 histone, family 3B	3.63	10.2	2.16	27.5
ENSMUSP00000029405	Gmps	guanine monophosphate synthetase	2.51	20.4	1.73	13.5
ENSMUSP00000023235	Eef1d	eukaryotic translation elongation factor 1 delta	2.10	26.7	1.90	23.4

F

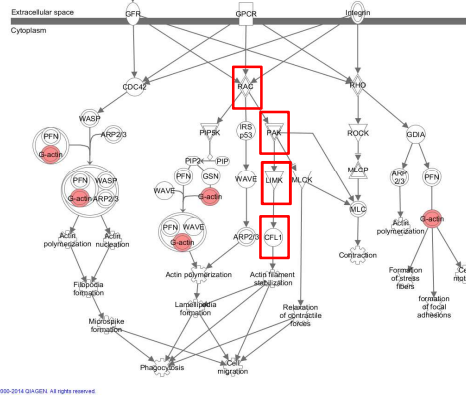
Accession number	Symbol	Name	4.0 Gy - 4h	Variability [%]	4.0 Gy - 24h	Variability [%]
ENSMUSP000000130479	Gspt1	G1 to S phase transition 1	1.65	13.4	1.43	12.5
ENSMUSP000000128967	Immt	inner membrane protein, mitochondrial	1.52	28.1	1.31	20.6
ENSMUSP000000126790	Mcm4	minichromosome maintenance deficient 4 homolog	1.40	27.0	1.39	6.9
ENSMUSP000000103365	Rpl18	ribosomal protein L18	-1.31	9.6	-1.32	8.3
ENSMUSP00000008812	Rps18	ribosomal protein S18	-1.32	8.4	-1.34	2.0
ENSMUSP00000000756	Rpl13	ribosomal protein L13	-1.33	11.9	-1.37	7.6
ENSMUSP000000100998	Rps15	ribosomal protein S15	-1.34	16.4	-1.44	1.1
ENSMUSP00000016463	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5	-1.37	8.3	-1.47	22.3
ENSMUSP00000079180	Rps25	ribosomal protein S25	-1.40	22.8	-1.41	2.2
ENSMUSP00000079356	Hist1h1b	histone cluster 1, H1b	-1.40	3.7	-1.60	3.8
ENSMUSP00000063714	Arhgdia	Rho GDP dissociation inhibitor (GDI) alpha	-1.51	6.7	-1.39	6.6
ENSMUSP000000114135	Rpl24	ribosomal protein L24	-1.56	12.0	-1.52	8.9
ENSMUSP00000027127	Sf3b1	splicing factor 3b, subunit	-1.59	26.5	-1.31	22.1
ENSMUSP000000131489	Rpl14	ribosomal protein L14	-1.60	18.3	-1.52	3.4
ENSMUSP00000031617	Rpl6	ribosomal protein L6	-1.65	26.1	-1.41	3.3

SI Figure S2

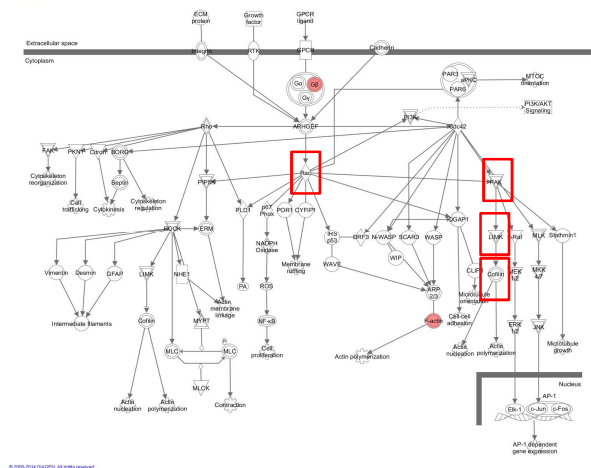
RhoGDI signalling



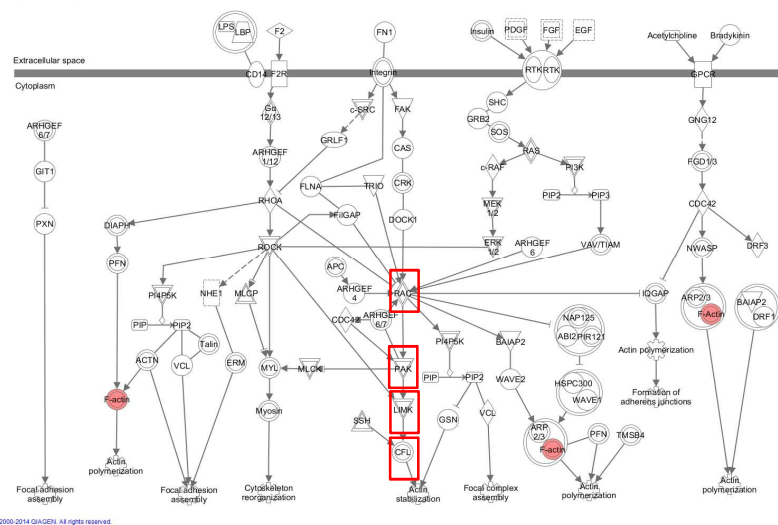
Regulation of Actin-based Motility by Rho



Regulation by Rho Family GTPases



Actin Cytoskeleton Signalling

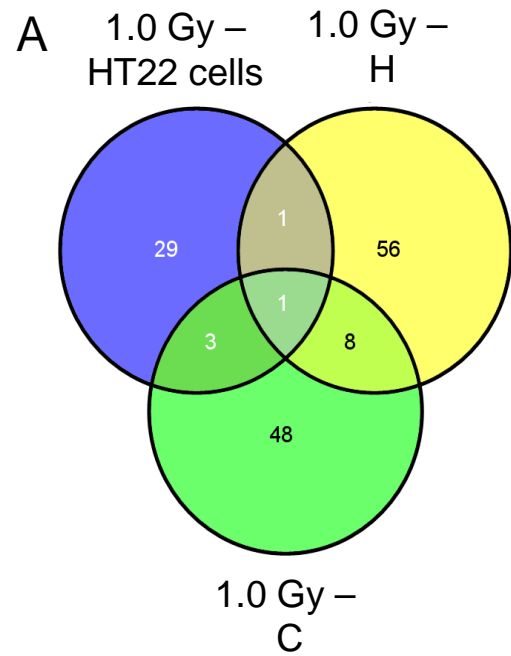


Signalling pathway	Overlapping proteins
RhoGDI Signalling	Rac, PAK, LIMK, Cofilin
Actin Cytoskeleton Signalling	
Regulation of Actin-based Motility by Rho	
Signalling by Rho Family GTPases	

SI Figure S3

Accession number	Symbol	Name	1.0 Gy - Hippocampus	Variability [%]	1.0 Gy - Cortex	Variability [%]
ENSMUSP00000007130	Ctnnb1	catenin (cadherin associated protein), beta 1	3.18	24.9	1.65	19.7
ENSMUSP00000111516	Cdh2	cadherin 2	3.06	29.1	2.15	23.8
ENSMUSP00000066304	Nlgn3	neuroligin 3	2.68	28.9	1.98	27.3
ENSMUSP00000126883	Ank2	ankyrin 2, brain	2.67	25.9	1.77	8.4
ENSMUSP00000026743	Uqcrc1	ubiquinol-cytochrome c reductase core protein 1	2.47	19.1	2.12	18.5
ENSMUSP00000029405	Gmps	guanine monophosphate synthetase	1.96	22.9	1.77	26.1
ENSMUSP00000092658	Rab7	RAB7, member RAS oncogene family	1.48	10.6	1.41	13.9
ENSMUSP00000030940	Gnb1	guanine nucleotide binding protein (G protein), beta 1	1.39	2.5	1.32	27.1

SI Figure S4



B

Symbol	Name	1.0 Gy - Hippocampus	Variability [%]	1.0 Gy - Cortex	Variability [%]	1.0 Gy - HT22 cells	Variability [%]
Gmps	guanine monophosphate synthetase	1.96	22.9	1.77	26.1	1.73	13.5

SI Figure S5

