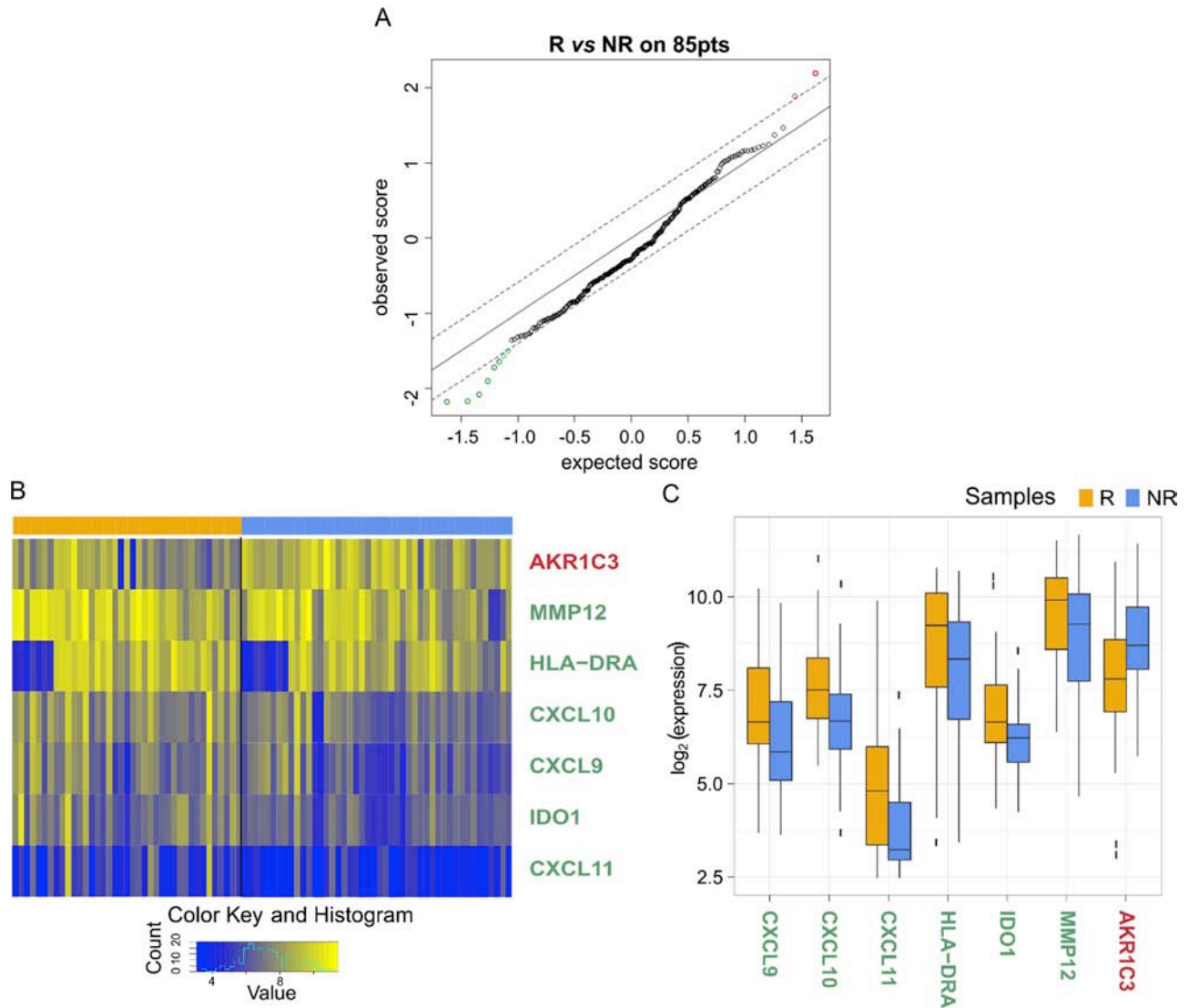
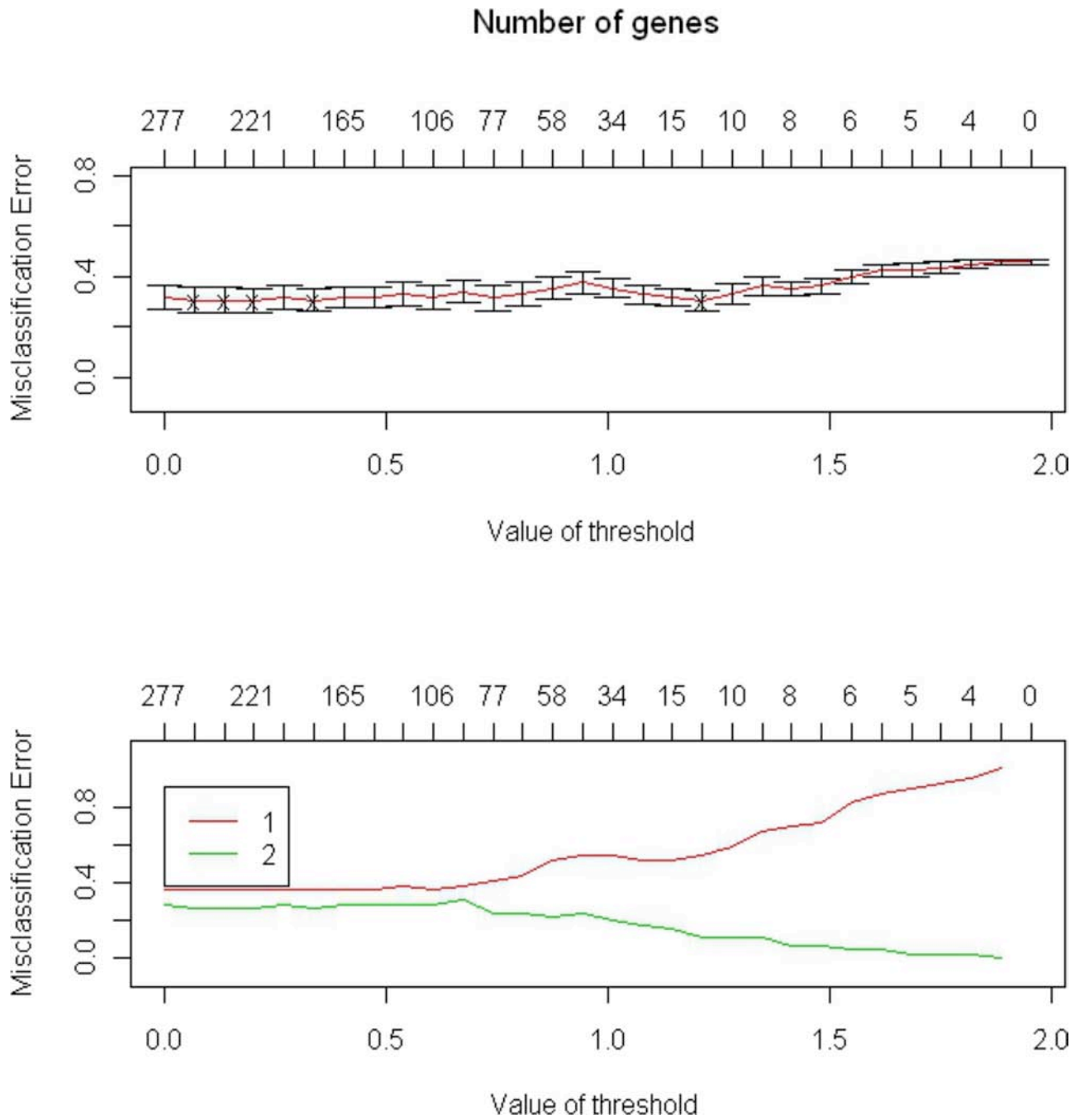


SUPPLEMENTARY FIGURES AND TABLES

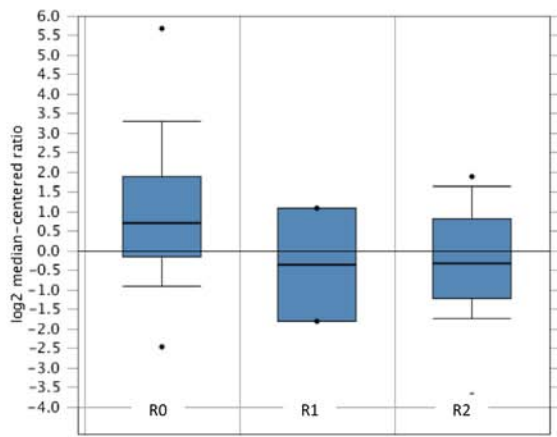


Supplementary Figure S1: Seven genes differentially expressed between responders and non-responders identified by SAM analysis. CXCL9, CXCL10, CXCL11, HLA-DRA, IDO1 and MMP12 were up-regulated while AKR1C3 was down-regulated in the responders group, and vice versa: **A.** SAM plot with significantly up-regulated genes labeled in red, down-regulated genes in green. Only genes beyond the 95% confidence interval have been considered; **B.** Heatmap of Differentially Expressed Genes (DEG) expression profiles in considered samples; **C.** Boxplot showing expression variation of DEGs in considered groups.

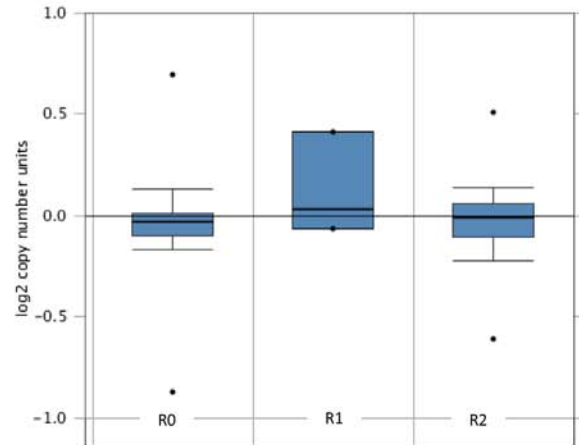


Supplementary Figure S2: PAM results: misclassification error rates between responders and non-responders using the set of 277 filtered genes.

IDO1 Expression in TCGA Colorectal Statistics, grouped by Residual tumor



AKR1C3 Expression in TCGA Colorectal Statistics, grouped by Residual tumor



Supplementary Figure S3: TCGA data set analysis. IDO 1 and AKR1C3 expression level vs Residual tumor grade [R0=no residual tumor; R1=microscopic residual tumor; R2=macroscopic residual tumor;]. R0 were considered complete/good response while R1 and R2 bad/absent response.

Supplementary Table S1: Differentially expressed genes between responders and non-responders groups identified by the three different studies

<i>Kim et al.</i>			<i>Agostini et al.</i>		<i>Rimkus et al.</i>	
AP2B1 Gene ID: 163	FLJ14054 Gene ID: 4883	LOC339692 Gene ID: 440895	RPS4Y1 Gene ID: 6192	XRCC3ID: 7517	ADPRHL2 Gene ID: 54936	PEX14 Gene ID: 5195
ARHGEF7 Gene ID: 8874	FLJ20674 Gene ID: 54621	LOC90379 Gene ID: 90379	SAE1 Gene ID: 10055	ZNF160ID: 90338	BLVRA Gene ID: 644	SDHC Gene ID: 6391
ASL Gene ID: 435	FLNA Gene ID: 2316	LOC92482 Gene ID: 92482	SEMA3C Gene ID: 10512	HFM1ID: 164045	C10orf4 Gene ID: 118924	SF3A1 Gene ID: 10291
BICD2 Gene ID: 23299	FOXO3A Gene ID: 2309	MAX Gene ID: 4149	SLC24A3 Gene ID: 57419	ASXL2ID: 55252	C14orf48 Gene ID: 256369	SLC35E1 Gene ID: 79939
BMP4 Gene ID: 652	FRMD4A Gene ID: 55691	MCF2L Gene ID: 23263	SOX4 Gene ID: 6659		C9orf57 Gene ID: 138240	SP2 Gene ID: 6668
BTAF1 Gene ID: 9044	GLDC Gene ID: 2731	MLF2 Gene ID: 8079	SULT1A2 Gene ID: 6799		CASP1 Gene ID: 834	STAT2 Gene ID: 6773
RPAP2 Gene ID: 79871	GPR107 Gene ID: 57720	MMP14 Gene ID: 4323	TAF6 Gene ID: 6878		CCNK Gene ID: 8812	TDE1 Gene ID: 10955
MIS18A Gene ID: 54069	H2AFX Gene ID: 3014	MSX2 Gene ID: 4488	TBC1D13 Gene ID: 54662		COX15 Gene ID: 1355	TIAL1 Gene ID: 7073
CENPM Gene ID: 79019	HEMK1 Gene ID: 51409	NF1 Gene ID: 4763	TBL2 Gene ID: 26608		ETS2 Gene ID: 2114	TNFRSF1B Gene ID: 7133
FAM134A Gene ID: 79137	ZFP276 Gene ID: 92822	NUP62 Gene ID: 23636	TFR2 Gene ID: 7036		FREM1 Gene ID: 158326	TOE1 Gene ID: 114034
C7orf25 Gene ID: 79020	HNRNPC Gene ID: 3183	P2RY13 Gene ID: 53829	TGOLN2 Gene ID: 10618		GGA2 Gene ID: 23062	TUBD1 Gene ID: 51174
CDC20 Gene ID: 991	HNRPR Gene ID: 10236	PCSK5 Gene ID: 5125	TPM4 Gene ID: 7171		GRCC10 Gene ID: 113246	ZNF652 Gene ID: 22834
CPS1 Gene ID: 1373	HSD3B2 Gene ID: 3284	PDCD4 Gene ID: 27250	TRAF4 Gene ID: 9618		H41 Gene ID: 55573	USP42 Gene ID: 84132
DDX1 Gene ID: 1653	HSPC047 Gene ID: 29060	PDXK Gene ID: 8566	TUBB Gene ID: 203068		KCNJ2 Gene ID: 3759	USP48 Gene ID: 84196

(Continued)

<i>Kim et al.</i>			<i>Agostini et al.</i>		<i>Rimkus et al.</i>	
EIF4A1 Gene ID: 1973	HSPC152 Gene ID: 51504	PHF7 Gene ID: 51533	TYMS Gene ID: 7298		KPNA6 Gene ID: 23633	VPS37C Gene ID: 55048
ELAVL1 Gene ID: 1994	HTR2C Gene ID: 3358	PIP3-EGene ID: 26034	UBR2 Gene ID: 23304		KPNB1 Gene ID: 3837	WTAP Gene ID: 9589
ENO1 Gene ID: 2023	IGLC2 Gene ID: 3538	PLCE1 Gene ID: 51196	ULK4 Gene ID: 54986		LOC199899 Gene ID: 199899	YY1AP1 Gene ID: 55249
ZNF84 Gene ID: 7637	ILF3 Gene ID: 3609	PYCARD Gene ID: 29108	USP14 Gene ID: 9097		MAFB Gene ID: 9935	ZNF24 Gene ID: 7572
EPS15 Gene ID: 2060	ITM2A Gene ID: 9452	RAD23B Gene ID: 5887	YIPF2 Gene ID: 78992		MFN1 Gene ID: 55669	
EZH1 Gene ID: 2145	KCNH2 Gene ID: 3757	RAP1A Gene ID: 5906			MGC14288 Gene ID: 84987	
FBS1 Gene ID: 26232	LEMD3 Gene ID: 23592	RAPGEF2 Gene ID: 9693			M-RIP Gene ID: 23164	
FGFR4 Gene ID: 2264	LMNB2 Gene ID: 84823	RPL10L Gene ID: 140801			NARF Gene ID: 26502	
FHL1 Gene ID: 2273	LOC283768 Gene ID: 283768	RPS2Gene ID: 6187			PAPD1 Gene ID: 55149	

Supplementary Table S2: Single matrix of 277 differently expressed genes obtained through *de-novo* integration of gene expression data

ProbeID				
	GC01M020174_at	GC04M149219_at	GC0XP102437_at	GC17M015073_at
	GC01M047421_at	GC04M157902_at	GC0XP115481_at	GC17M023108_at
	GC01M103055_at	GC04M169375_at	GC0YM020326_at	GC17M036285_at
	GC01M107915_at	GC04P074845_at	GC0YP002769_at	GC17M036332_at
	GC01M109988_at	GC04P075470_at	GC0YP013454_at	GC17M037029_at
	GC01M120003_at	GC04P078623_at	GC0YP020142_at	GC17M044158_at
	GC01M149603_at	GC04P089115_at	GC0YP021075_at	GC17P001612_at
	GC01M151629_at	GC04P156807_at	GC10M069226_at	GC17P007151_at
	GC01M153424_at	GC04P157044_at	GC10M069713_at	GC17P029636_at
	GC01M184907_at	GC04P166519_at	GC10M095341_at	GC17P055582_at
	GC01M201414_at	GC05M000848_at	GC10M133631_at	GC18P027281_at
	GC01M205168_at	GC05M016527_at	GC10P005126_at	GC18P059297_at
	GC01M224140_at	GC05M042835_at	GC10P029006_at	GC19M006628_at
	GC01M233846_at	GC05M095751_at	GC10P070518_at	GC19M017374_at
	GC01P000938_at	GC05M134934_at	GC10P085944_at	GC19M041087_at
	GC01P022852_at	GC05M138752_at	GC10P088718_at	GC19M045045_at
	GC01P078858_at	GC05M147184_at	GC10P091142_at	GC19M046869_at
	GC01P078888_at	GC05M151021_at	GC10P124310_at	GC19M056153_at
	GC01P086646_at	GC05P080564_at	GC11M002113_at	GC19P018358_at
	GC01P086724_at	GC05P082804_at	GC11M005203_at	GC19P050663_at
	GC01P100897_at	GC05P096238_at	GC11M046834_at	GC20M023723_at
	GC01P191044_at	GC05P137829_at	GC11M059376_at	GC20M043960_at
	GC01P204484_at	GC05P147423_at	GC11M101896_at	GC20M049646_at
	GC01P205137_at	GC05P149320_at	GC11M102146_at	GC20P009024_at
	GC01P205561_at	GC06M109414_at	GC11M102165_at	GC20P025329_at
	GC01P210805_at	GC06M116546_at	GC11M102211_at	GC20P029656_at
	GC02M079165_at	GC06M133044_at	GC11M102238_at	GC20P034603_at
	GC02M079296_at	GC06M169433_at	GC11M110728_at	GC20P043236_at
	GC02M088261_at	GC06P032434_at	GC11M113947_at	GC20P043532_at
	GC02M162707_at	GC06P046869_at	GC11P001064_at	GC20P044771_at
	GC02M183406_at	GC06P057145_at	GC11P001200_at	GC20P055569_at
	GC02M189604_at	GC07M016467_at	GC11P005667_at	GC20P060918_at
	GC02M199842_at	GC07M023316_at	GC11P057121_at	GC21M042605_at
	GC02M227935_at	GC07M027147_at	GC11P060016_at	GC21M042655_at
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(Continued)

ProbeID				
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	GC02P037483_at	GC07M045918_at	GC11P069604_at	GC22M022706_at
	GC02P044414_at	GC07M086970_at	GC11P116575_at	GC22P020714_at
	GC02P074031_at	GC07M099402_at	GC12M007963_at	GC0XP099705_at
	GC02P079201_at	GC07M100662_at	GC12M014926_at	GC16P088214_at
	GC02P089024_at	GC07M107193_at	GC12M045755_at	GC04M075202_at
	GC02P101974_at	GC07P022732_at	GC12M051126_at	GC04M077112_at
	GC02P108272_at	GC07P023252_at	GC12M089999_at	GC04M077132_at
	GC02P151922_at	GC07P093861_at	GC12M090041_at	GC04M077145_at
	GC02P169629_at	GC07P100302_at	GC12M115961_at	GC04M084305_at
	GC02P189547_at	GC07P133862_at	GC12P007038_at	GC04M088696_at
	GC02P217206_at	GC08M006769_at	GC12P012778_at	GC04M100457_at
	GC02P228386_at	GC08M006900_at	GC12P015366_at	GC0XM003220_at
	GC02P238060_at	GC08M027724_at	GC12P020859_at	GC0XM008456_at
	GC03M016333_at	GC08M042151_at	GC12P068028_at	GC0XM015489_at
	GC03M050312_at	GC08M095330_at	GC12P070121_at	GC0XM072957_at
	GC03M058153_at	GC08M120638_at	GC13M076352_at	GC0XM150873_at
	GC03M121595_at	GC08P024297_at	GC13P052500_at	GC0XP043400_at
	GC03M140718_at	GC08P039891_at	GC13P099539_at	GC0XP051503_at
	GC03M151165_at	GC08P070541_at	GC14M024170_at	GC16M055258_at
	GC03M159897_at	GC08P086563_at	GC14M024348_at	GC16M063538_at
	GC03M166179_at	GC08P098950_at	GC14M050441_at	GC16P000751_at
	GC03M196963_at	GC08P142501_at	GC14M093914_at	GC16P011966_at
	GC03M198162_at	GC09M036204_at	GC14M103055_at	GC16P054070_at
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	GC04M015578_at	GC09P035663_at	GC15P030797_at	GC04M075092_at
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	GC09P134947_at	GC15P078858_at	GC0XM002846_at	
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Supplementary Table S3: Significantly enriched pathways and *p*-values for: (a) figure 2 and (b) figure 4

a) Pathway	<i>p</i>-value
Immune System	3,64E-07
Signal Transduction	0,024148
Hemostasis	0,181925
Metabolism	0,21381
Apoptosis	0,220759
Developmental Biology	0,370575

b) Pathway	<i>p</i>-value
Immune System	3,14E-16
RNF125 mediated ubiquitination of RIG-I, MDA5 and IPS-1	6,41E-07
Hemostasis	9,07E-06
Signal Transduction	0,002719
Metabolism	0,002898
APC-Cdc20 mediated degradation of Nek2A	0,008458
Cell-Cell communication	0,013402
Gene Expression	0,023573
Apoptosis	0,053735
Cdc20:Phospho-APC/C mediated degradation of Cyclin A	0,059329
Disease	0,070436
Developmental Biology	0,143688
Cell Cycle	0,148407
Neuronal System	0,166389
Muscle contraction	0,235869
Metabolism of RNA	0,338982
DNA Repair	0,345511
DNA Replication	0,353839

Supplementary Table S4: Raw data obtained from “The Comparative Toxicogenomics Database” (CTD) for figure 3A. Data for figure 3B is extracted from the network used to produce figure 3A.