Biological Interpretation of Differentially Expressed Gene Lists Generated by ArrayTrack

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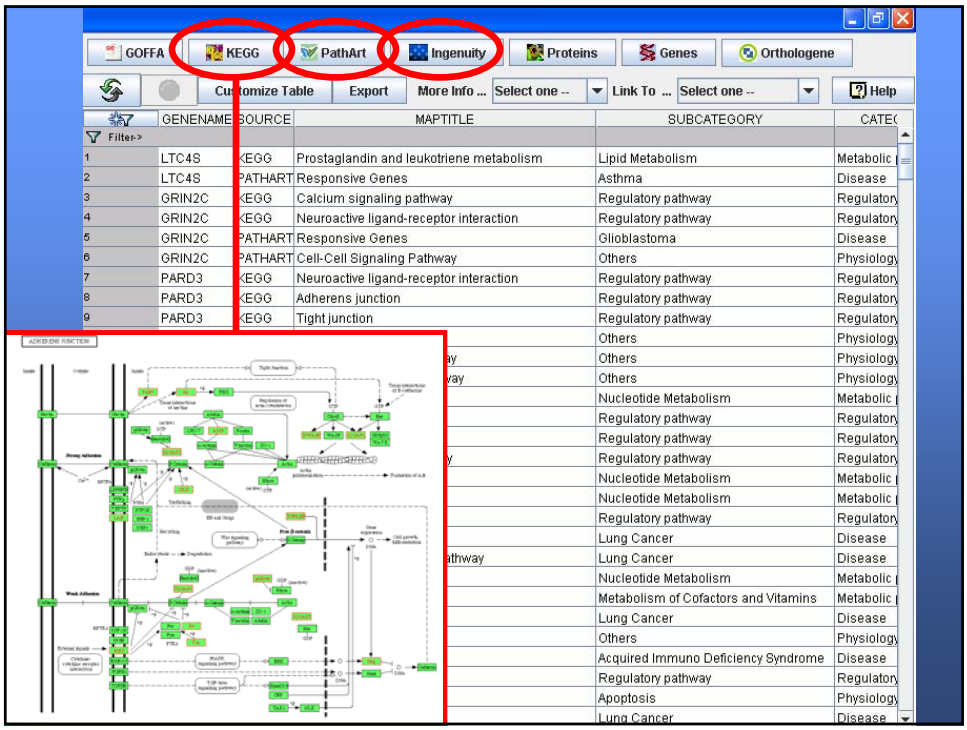


Ingenuity Pathway Analysis

Metabolic Pathways

Function	Significance ▲	# Global Analysis Genes
Cell Signaling	2.63E-5 – 3.00E-2	4
Cell Cycle	4.59E-4 – 8.24E-3	1
Cellular Assembly and Organization	4.59E-4 – 5.96E-3	1
Cellular Function and Maintenance	4.59E-4 – 1.28E-2	2

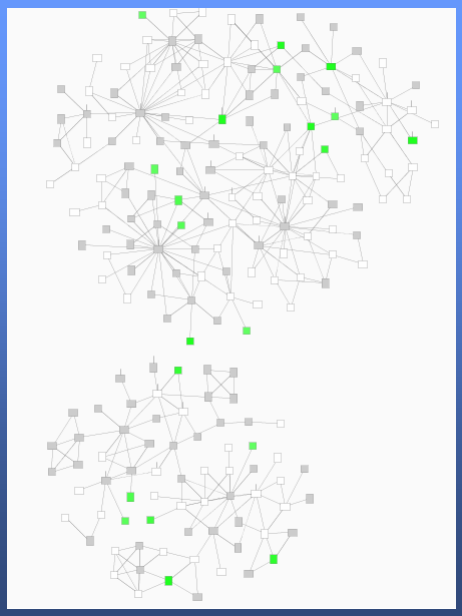
Canonical Pathways

Canonical Pathway	Significance ▲	# Global Analysis Genes
Chemokine Signaling	4.75E-3†	2
IL-6 Signaling	6.52E-3†	2

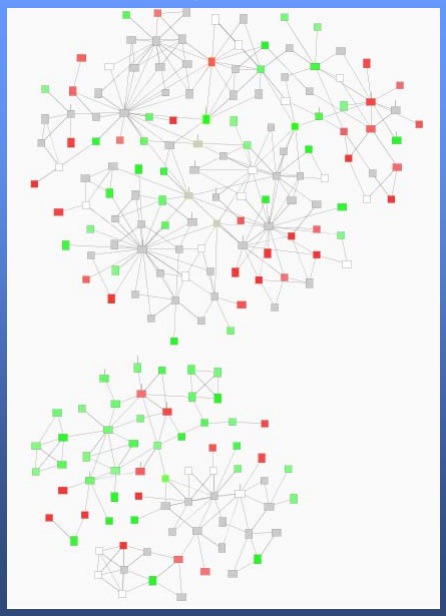
Networks and Related genes

Network ID ▲	Genes in Network	Network Explorer	Score	#Focus Genes	Top Functions	»Merge
1	Asc2, BCL3, BCL6, CAMK4, CCBP2, **CCL2***, **CCL7**, CCNA2, CCNE1, CCR1, **CCR2**, CCR5, CCRL1, CD44, CHUK, **CTSL**, **CXCL1**, **CXCL2**, DSIPI, **FOS**, HDAC5, ICAM1, IL2, IL8RB, JUNB, MMP1, MTPN, MYOG, NCOR2, PLAU, PTGS2, RELA, **SDC4**, TNF, **TNFRSF7**		18	9	Immune Response. Cellular Movement. Hematological System Development and Function. View all	

Treatment 0, 8 wk



Network Overlaid with gene list of Treatment 0, 16 wk

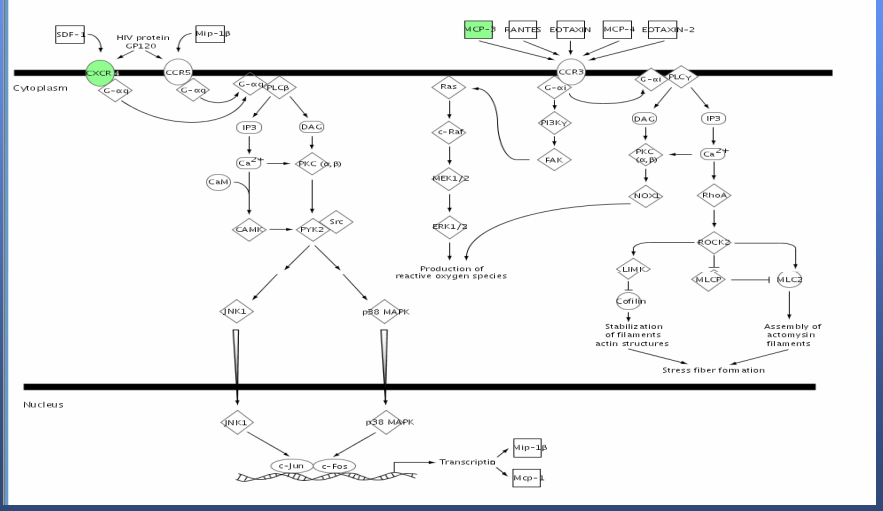


Ingenuity Pathway Analysis

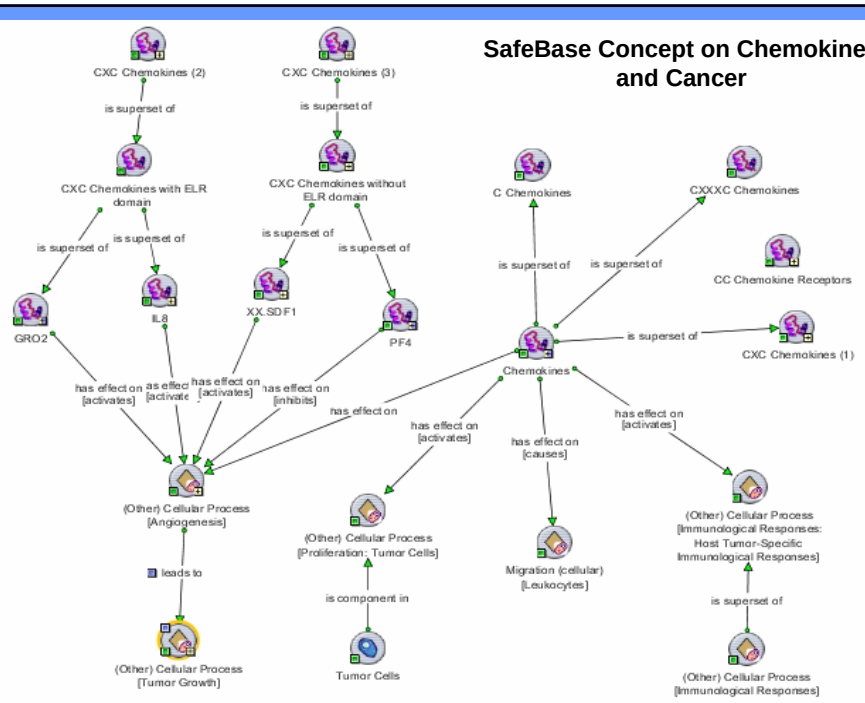
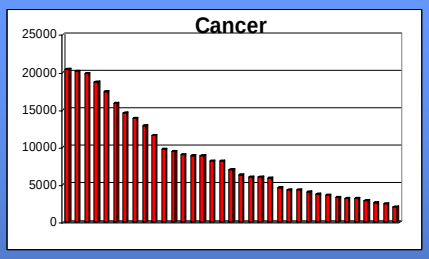
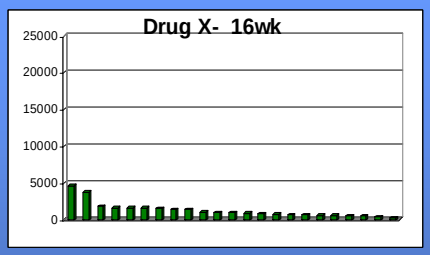
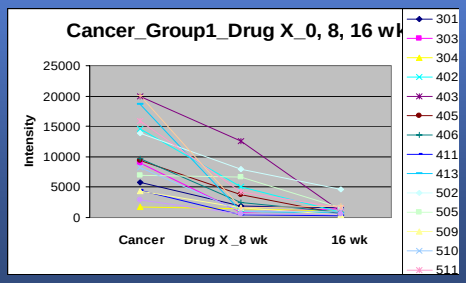
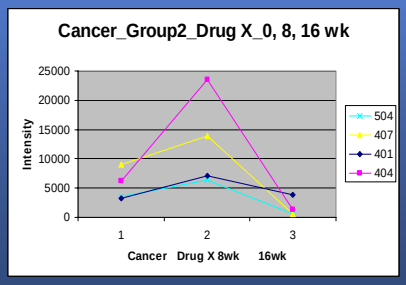
Canonical Pathway: Chemokine Signaling | Ingenuity Pathways Analysis - Microsoft Internet Explorer

c-Raf	RAF1	--
CXCR4	**CXCR4↓**	1
EOTAXIN	CCL11	--
EOTAXIN-2	CCL24	--
ERK1/2	MAPK1, MAPK3	--
FAK	PTK2	--

Chemokine Signaling



SafeBase Concept on Chemokines and Cancer



Gene A_Gene Expression Profiles