





























































Pathway namo	#Hits in	Hit namos	Group	n valuo		
Fatilway hanne	group	K18: E1: Outochrome C: Hen10:	SIZE	p-value		
Caspaso notwork	6		104	0.00201348		
CHIP/ Pael-R	2	F1: Hsc70	104	0.01177937		
p53 pathway	4	E1; 123: Cytochrome C: Ku70	79	0.02072214		
beta-catenin/ KAI1	1	Reptin52		0.06701759		
Aurora-A cell cycle regulation	2	Ubc5B: E1	34	0.07924485		
JNK pathway	3	E1: 14-3-3zeta: Trx1	75	0.0813304		
parkin associated pathways	2	E1; Hsc70	40	0.10447487		
beta-catenin:E-cadherin complex						
phosphorylation and dissociation	1	alpha-catenin	9	0.11739049		
stress-associated pathways	3	E1; 14-3-3zeta; Trx1	100	0.15476		
hypoxia pathways	1	Trx1	24	0.2849595		
TNF-alpha pathway	1	Trx1	36	0.39594524		
EGF pathway	1	E1	103	0.57615756		



















Gene	Fold change Transge nic	Fold change Tumor	PPAR- gamma	c-Myb	c-Ets-2	STAT5B	GATA-1	Mef2a	p53	HNF-4 gamma (alpha - antibody)	GR	C/EBP alpha
lgf2	2.90	25.98	-	+	-			-				
ll1m	2.75	8.49		-	-	+						
lgfbp6	0.83	7.84	+	-	+	+						
Pparg	0.40	5.76		+	-	+	+	-				
Bmp7	0.92	4.64		+	-	-						
Zbtb7b	3.69	1.11							+			+
Foxc1	4.67	1.43								+	-	+
XIr	2.90	0.90						-	+			
Erbb3	6.99	2.35	-						+			
ltga4	2.76	1.03							-			+
Th	4.08	1.59						+	-			+
Nr2f1	6.26	2.62							+	+		
Defcr6	13.86	6.05								+	-	+
Nr3c1	3.27	1.44							-		-	+
Cav1	5.35	2.49							-		+	+
Sprr2i	3.24	1.59							+			+
Mgp	6.67	3.31						-				
Fgf18	4.07	2.02	-						+		-	
	0.00	0.31							-	+		+













Overall summary and conclusions

- Based on a combination of sequence analysis and entrained genetic algorrithms gene regulatory networks were constructed to identify de novo TF, processes, key nodes and molecules to connect as yet unknown interacting partners at the level of protein-DNA interactions.
- A switch in autocrine signaling was identified to foster tumor growth that was triggered by EGF and sustained by IGF signaling.