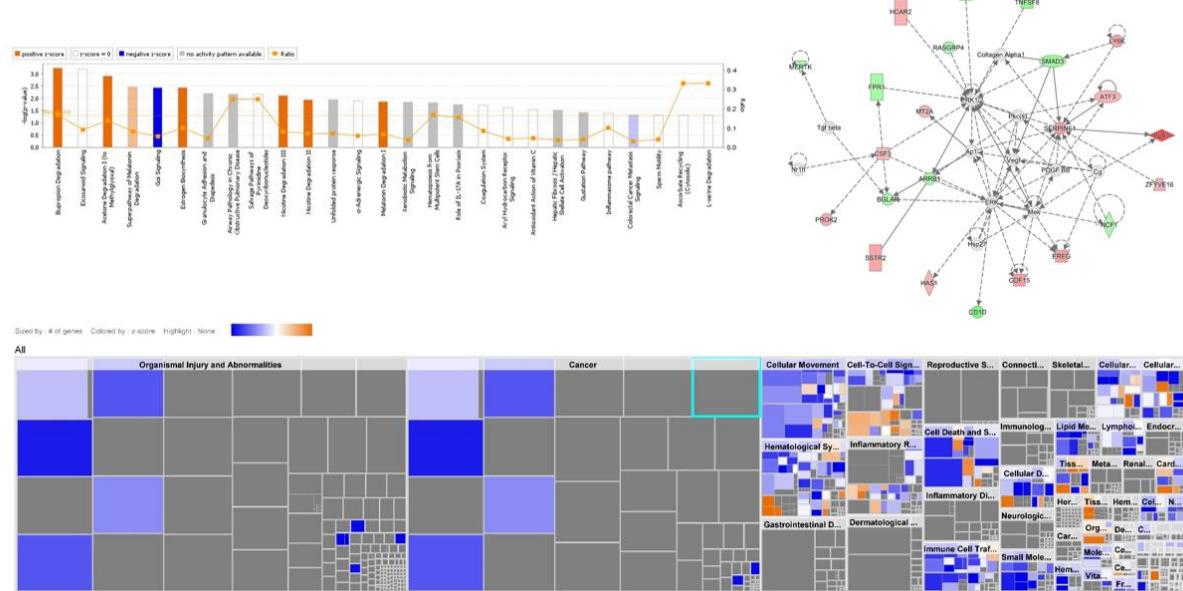


## 1. Figures



## 2. Canonical pathway table

A	B	C	D	E
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2 Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score	Molecules
3 Bupropion Degradation	3.24	0.167	1	CYP2F1,CYP1A1,CYP1B1,CYP2S1
4 Eicosanoid Signaling	3.17	0.0923	#NUM!	PTGES,PTGIR,ALOX15B,LCAT,PLA2G7,DPEP2
5 Acetone Degradation I (to Methylglyoxal)	2.92	0.138	1	CYP2F1,CYP1A1,CYP1B1,CYP2S1
6 Superpathway of Melatonin Degradation	2.46	0.0806	0.447	CYP2F1,CYP1A1,CYP1B1,CYP2S1,IL4I1
7 Gαi Signaling	2.44	0.0583	-1.633	ADCY9,RRAS,HTR1F,GNB1L,HCAR2,OPRL1,FPR1
8 Estrogen Biosynthesis	2.43	0.103	1	CYP2F1,CYP1A1,CYP1B1,CYP2S1
9 .				
10 .				
11 .				
12 .				

### **3. Diseases and Functions table**

	A	B	C	D	E	F	G
1	©2000-2018 QIAGEN. All rights reserved.						
2	Categories	Diseases or Functions Annotation	p-Value	Predicted Activation State	Activation z-score	Molecules	# Molecules
3	Cellular Function and Maintenance	Internalization of cells	0.0000953		-1.39	FCGR3A/F	9
4	Cellular Development, Cellular Growth and Proliferation	Proliferation of blood cells	0.000096		-0.295	CD1D, CD8+	16
5	Cell-To-Cell Signaling and Interaction, Hematological System Development and Function, Immune Cell Trafficking, Inflammatory Response	Activation of leukocytes	0.000106		0.45	CD1D, CD8+	15
6	Cell-To-Cell Signaling and Interaction	Activation of cells	0.000108		0.583	CD1D, CD8+	20
7	Cell-To-Cell Signaling and Interaction	Communication	0.000134			ADCY9, CC	34
8	Cancer, Organismal Injury and Abnormalities	Genitourinary tumor	0.000138			ADAMDEC	190
9							
10							
11							
12							

## 4. Regulator effects table

## 5. Upstream analysis table

	A	B	C	D	E	F	G	H
1	© 2000-2018 QIAGEN. All rights reserved.							
2	Upstream Regulator	Expr Log Ratio	Molecule Type	Predicted Activation State	Activation z-score	p-value of overlap	Target molecules in dataset	Mechanistic Network
3	TGFB1	-0.265	growth factor	Inhibited	-3.39	8.19E-44	ABCG2,ACE,ACTA2,ACTG2	593 (21)
4	TNF		cytokine		1.048	7.73E-29	ABCC3,ABCG2,ACADS,ACE561	(20)
5	dexamethasone		chemical drug		-0.329	3.82E-26	ABCC3,ACADL,ACADS,ACE560	(18)
6	beta-estradiol		chemical - endogenous mammalian		1.649	3.7E-25	ABCG2,ABLIM1,ACADVL,AC580	(21)
7	TP53		transcription regulator		-0.266	1.02E-18	ABCG2,ACADVL,ACE,ACTA501	(16)
8	ERBB2		kinase		1.672	3.02E-17	ABCG2,ACSL4,ACTA2,ACTE398	(17)
9	PDGF BB		complex		-0.111	5.73E-17	ACTA2,BDKRB2,BMP3,BMF462	(21)
10	.							
11	.							
12	.							
13	.							

## 6. Network table