

## Supplementary Information

**Supplementary Table 1. RT-qPCR primer sequences**

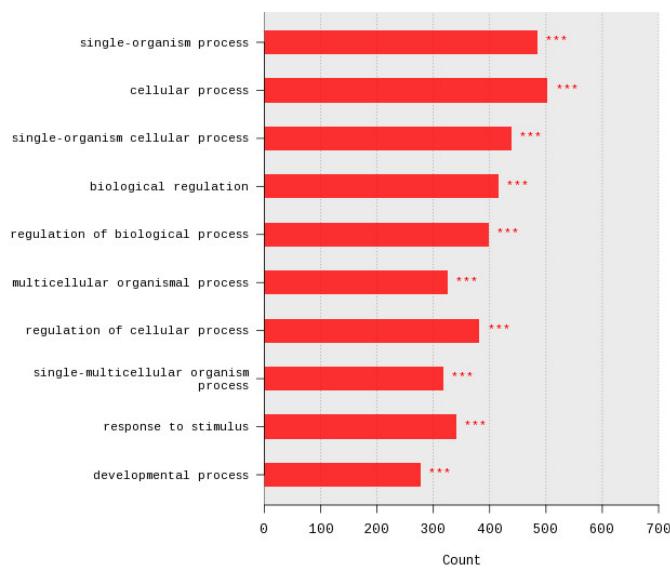
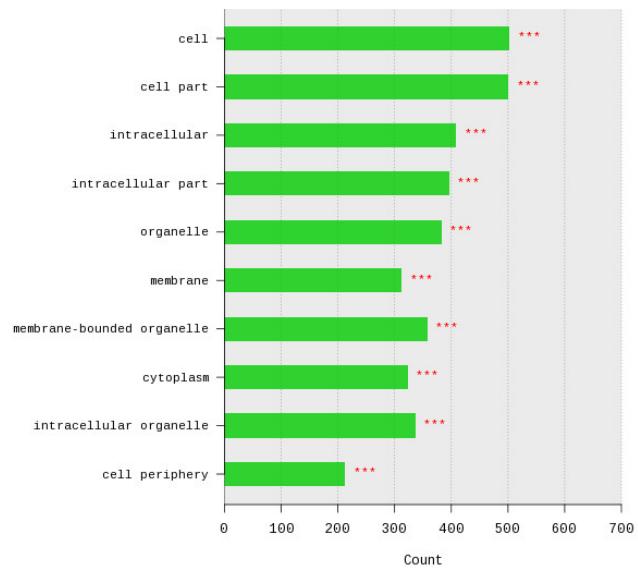
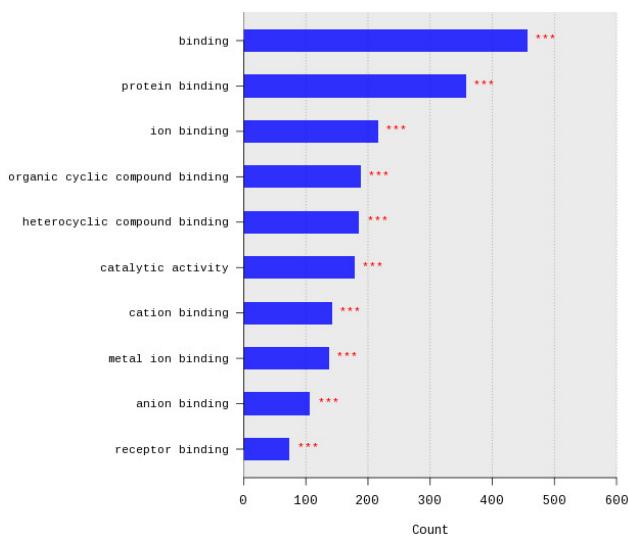
Gene	Forward primer	Reverse primer
GAPDH	5'-CTGGTAAAGTGGATATTGTTGCCA T-3'	5'-TGGAATCATATTGGAACATGTAAA CC-3'
Oct4	5'-GTGGAGGAAGCTGACAACAA-3'	5'-ATTCTCCAGGTTGCCTCTCA-3'
Nanog	5'-CCTGTGATTGTGGGCCTG-3'	5'-GACAGTCTCCGTGTGAGGCAT-3'
Sox2	5'-GGGAAATGGGAGGGGTGCAAAAG AGG-3'	5'-TTGCGTGAGTGTGGATGGATTGG TG-3'
c-Myc	5'-GCGCCTGGGAAGGGAGATCCGGA GC-3'	5'-TTGAGGGGCATCGTCGCGGGAGGC TG-3'
Klf4	5'-TGATTGTAGTGCTTCTGGCTGGC TCC-3'	5'-ACGATCGTGGCCCCGGAAAAGGAC C-3'
Sox17	5'-CGCTTCATGGTGTGGCTAAGGA CG-3'	5'-TAGTTGGGTGGCCTGCATGTGC TG-3'
AFP	5'-GAATGCTGCAAACGTGACCACGCTG GAAC-3'	5'-TGGCATTCAAGAGGGTTTCAGTC TGGA-3'
PAX6	5'-ACCCATTATCCAGATGTGTTGCCG GAG-3'	5'-ATGGTGAAGCTGGGCATAGGCGGC AG-3'
DJ-1	5'-GCTTCCAAAAGAGCTCTGGTC-3'	5'-ACATCACGGCTACACTG-3'
Pecam1	5'-TCAGGCAACGCACAAAACAG-3'	5'-GACCTGCTCGGTTCTCTCTG-3'
HAND-1	5'-TATAAGCCAGATCCGCAGGG-3'	5'-CGATGTAGCTGGTGGCTAGG-3'
Sox1	5'-AATACTGGAGACGAACGCCG-3'	5'-AGTGCTGGACCTGCCTTAC-3'

**Supplementary Table 2. The antibody information**

Name	Company	Catalogue number	Dilution
Oct4	abcam	ab19857	ICC/IF 1/100 WB 1:1000
Sox2	abcam	ab97959	ICC/IF 1/100 WB 1:1000
Nanog	abcam	ab21624	ICC/IF 1/100 WB 1:1000
DJ-1	R&D System	925805R	ICC/IF 1:20 WB 1:500
SSEA4	Invitrogen	SSEA421	FACS 1:50, 1:100
Tra1-60	Invitrogen	MA1-023-D488X	FACS 1:50, 1:100

**Supplementary Table 3. Preprocessed microarray data.**

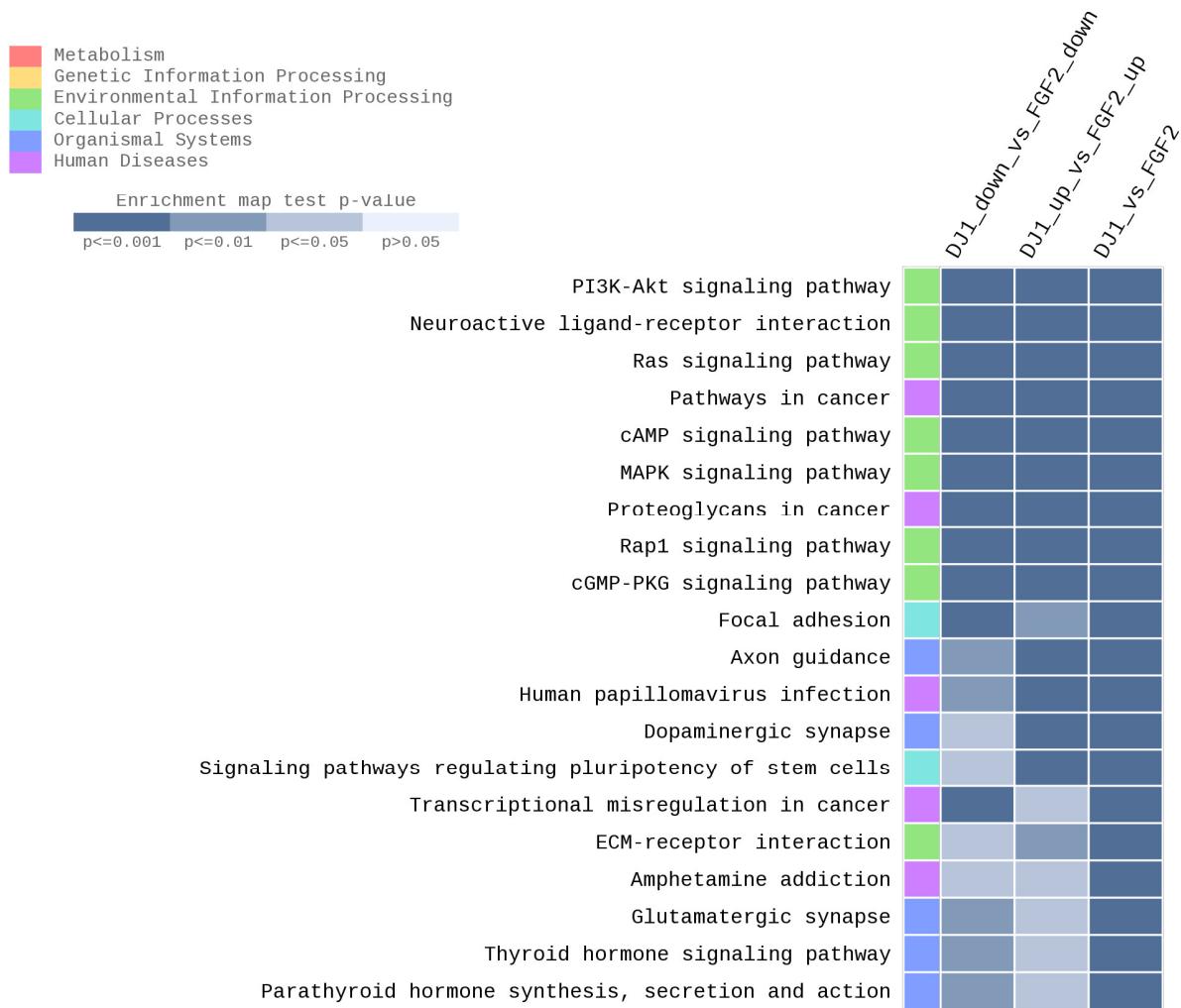
Image analysis, extract raw data, and analysis were done by Affymetrix Power Tools (background correction, summarization, normalization). The data were filtered by main or consensus probes.

**A****B****C**

### Supplementary Figure 1. Top 10 terms of GO functional analysis

A. Biological process. B. Cellular component. C. Molecular Function. P value < 0.001 (\*\*\*)

## Supplementary Figure 2A



## Supplementary Figure 2. KEGG gene-enrichment heatmaps

A. Sorted. B. Filtered. C. Total. *DJ1\_down\_vs\_FGF2\_down*, The expressions in DJ1 media were down more than 2-fold; *DJ1\_up\_vs\_FGF2\_up*, The expressions in DJ1 media were up more than 2-fold; *DJ1\_vs\_FGF2*, The expressions were different more than 2-fold.