

# Marta España López - GSE52553

## **Ethanol treatment of lymphoblastoid cell lines from alcoholics and non-alcoholics causes many subtle changes in gene expression**

**Description:** Compared gene expression in lymphoblastoid cell lines from alcoholics, controls and 24 hour treatment with ethanol.

**Response variable:** Gene expression

**Factors and groups:** 2 factors, 2 groups

- Treatment: alcoholic (3), non-alcoholic (3)
- No treatment: alcoholic (3), non-alcoholic (3)

**Sample size:** 12 (84 originally)

**Experimental units per combination of factors:** 3

**Type of experimental design:** Block design

**Replicate type:** Biological

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Linear model

Sample	Treat.	Cell line	Group		g1	g2	g3	g4
1	None	Alcoholic	g1		1	0	0	0
2	None	Alcoholic	g1		1	0	0	0
3	Ethanol	Alcoholic	g2		0	1	0	0
4	Ethanol	Alcoholic	g2		0	1	0	0
5	None	Control	g3		0	0	1	0
6	Ethanol	Control	g4		0	0	0	1
7	Ethanol	Alcoholic	g2		0	1	0	0
8	Ethanol	Control	g4		0	0	0	1
9	Ethanol	Control	g4		0	0	0	1
10	None	Control	g3		0	0	1	0
11	None	Control	g3		0	0	1	0
12	None	Alcoholic	g1		1	0	0	0