Table S16. Functional categories of down-regulated genes associated with t(15;17)

GO category	Corrected p-value	No. of genes	Other tags with downregulated genes	Other tags with upregulated ger
gical Processes				
biological regulation	1.40E-07	34	CD34+CD38- fraction CEBPA mutation control del(7q) euploid low centrosome aberrations t(8;21)	aneuploid CD34+CD38+ fraction CEBPA silenced high centrosome aberrations normal cytogenetics
regulation of biological process	2.33E-07	32	CD34+CD38- fraction CEBPA mutation del(7q) euploid FLT3 mutation low centrosome aberrations t(8;21)	aneuploid CD34+CD38+ fraction CEBPA silenced high centrosome aberrations inv(16) MLL fusion gene
regulation of cellular process	3.21E-07	31	CD34+CD38- fraction CEBPA mutation euploid FLT3 mutation low centrosome aberrations t(8;21)	aneuploid CD34+CD38+ fraction CEBPA silenced high centrosome aberrations inv(16) MLL fusion gene
antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	1.07E-05	6	normal cytogenetics	
anatomical structure morphogenesis	8.23E-05	11	poor prognosis t(8;21)	FLT3-ITD FLT3 mutation good prognosis MLL fusion gene normal cytogenetics
regulation of metabolic process	3.50E-04	22	CEBPA mutation low centrosome aberrations poor prognosis	good prognosis high centrosome aberrations NPM1 mutation
regulation of cellular metabolic process	8.90E-04	21	CEBPA mutation low centrosome aberrations poor prognosis	good prognosis high centrosome aberrations NPM1 mutation
immune system process	1.02E-03	12	CD34+CD38- fraction FLT3 mutation normal cytogenetics t(8;21)	CD34+CD38+ fraction FAB-M4 FAB-M5 inv(16) MLL fusion gene monocytic
antigen processing and presentation	1.26E-03	7	normal cytogenetics	
regulation of gene expression	1.64E-03	20	abnormal cytogenetics CEBPA mutation poor prognosis	good prognosis NPM1 mutation
response to stimulus	3.94E-03	18	CD34+CD38- fraction FLT3 mutation t(8;21)	11q23 CD34+CD38+ fraction inv(16) MLL fusion gene monocytic
negative regulation of cellular process	5.51E-03	10	CD34+CD38- fraction t(8;21)	CD34+CD38+ fraction control inv(16) MLL fusion gene
ovulation	7.13E-03	2		
negative regulation of biological process	8.35E-03	10	CD34+CD38- fraction t(8;21)	CD34+CD38+ fraction control MLL fusion gene inv(16) MLL fusion gene

	sequence-specific DNA binding	2.59E-07	13	abnormal cytogenetics control	FLT3-ITD NPM1 mutation					
	transcription factor activity	3.02E-06	15	abnormal cytogenetics control MLL fusion gene	good prognosis NPM1 mutation					
	transcription regulator activity	4.86E-05	16	abnormal cytogenetics control MLL fusion gene poor prognosis	good prognosis NPM1 mutation					
Cellu	Cellular Components									
	plasma membrane part	6.53E-08	20	CEBPA mutation good prognosis	11q23 CBF CEBPA silenced FAB-M4 FAB-M5 FAB-M7 inv(16) poor prognosis					
	plasma membrane	3.73E-06	23	CD34+CD38- fraction CEBPA mutation	11q23 CBF CD34+CD38+ fraction CEBPA silenced control FAB-M4 FAB-M5 FAB-M7 good prognosis inv(16) monocytic					
	MHC class II protein complex	7.87E-06	6	normal cytogenetics						
	intrinsic to plasma membrane	1.34E-03	11	CD34+CD38- fraction	CBF CD34+CD38+ fraction FAB-M4 FAB-M5 FAB-M7 good prognosis inv(16) monocytic					
	MHC protein complex	2.04E-03	6							
	intracellular part	3.44E-03	39	low centrosome aberrations	abnormal cytogenetics FAB-M7 FLT3 mutation high centrosome aberrations					
	cell part	4.93E-03	53	euploid	abnormal cytogenetics aneuploid FAB-M7 FLT3-ITD FLT3 mutation					
	cell	4.94E-03	53	euploid	abnormal cytogenetics aneuploid FAB-M7 FLT3-ITD FLT3 mutation					

Significantly over-represented functional gene ontology (GO) categories of down-regulated genes associated with t(15;17) are presented here. GO categories that are also over-represented in up-regulated genes associated with t(15;17) are not included. Corrected p-value is the Bonferroni multiple hypothesis. Identification tags that are both up-regulated and down-regulated are not included in the 'other tags' columns. Identification tag descriptions can be found in Table S1.