

**Supplementary Table S5.** Pathways identified by IPA

<b>Name</b>	<b>p-value</b>	<b># molecules</b>
<b>Disease and Disorders</b>		
Inflammatory response	2.05E-6	27
Hematological disease	7.30E-5	9
Immunological disease	7.3E-5	29
Cancer	7.44E-5	39
Infectious disease	1.3E-4	19
<b>Molecular and Cellular Functions</b>		
Cellular growth and proliferation	1.31E-5	33
Cell death	1.49E-5	35
Cell-to-cell signaling/interaction	1.72E-5	26
Cellular movement	4.39E-4	21
Cellular development	6.20E-4	24
<b>Physiological System Development and Function</b>		
Hematological	1.31E-5	30
Humoral immune response	1.31E-5	13
Reproductive	1.72E-5	7
Hematopoiesis	6.20E-4	15
Immune cell trafficking	1.00E-33	16