

Cluster	Top Higher level Biological Functions/ Disorders	P-value
1	1. Inflammatory Response	$1.07 \times 10^{-9} - 6.72 \times 10^{-3}$
	2. Cancer	$8.76 \times 10^{-8} - 6.24 \times 10^{-3}$
	3. Immunological Disease	$9.63 \times 10^{-8} - 6.76 \times 10^{-3}$
	4. Inflammatory Disease	$4.40 \times 10^{-7} - 6.24 \times 10^{-3}$
	5. Neurological Disease	$4.40 \times 10^{-7} - 5.55 \times 10^{-3}$
2	1. Cancer	$8.26 \times 10^{-6} - 4.78 \times 10^{-2}$
	2. Inflammatory Response	$1.71 \times 10^{-5} - 4.94 \times 10^{-2}$
	3. Immunological Disease	$8.46 \times 10^{-5} - 4.31 \times 10^{-2}$
	4. Cardiovascular Disease	$2.38 \times 10^{-4} - 4.94 \times 10^{-2}$
	5. Ophthalmic Disease	$3.70 \times 10^{-4} - 1.66 \times 10^{-2}$
3	1. Immunological Disease	$7.13 \times 10^{-4} - 2.68 \times 10^{-2}$
	2. Ophthalmic Disease	$2.10 \times 10^{-3} - 2.10 \times 10^{-3}$
	3. Organismal Injury and Abnormalities	$2.10 \times 10^{-3} - 2.68 \times 10^{-2}$
	4. Developmental Disorder	$9.97 \times 10^{-3} - 3.95 \times 10^{-2}$
	5. Inflammatory Response	$9.97 \times 10^{-3} - 3.91 \times 10^{-2}$
4	1. Inflammatory Response	$7.43 \times 10^{-6} - 4.42 \times 10^{-2}$
	2. Connective Tissue Disorders	$3.07 \times 10^{-5} - 2.24 \times 10^{-2}$
	3. Inflammatory Disease	$3.07 \times 10^{-5} - 4.26 \times 10^{-2}$
	4. Skeletal and Muscular Disorders	$3.07 \times 10^{-5} - 3.02 \times 10^{-2}$
	5. Hematological Disease	$4.06 \times 10^{-4} - 4.32 \times 10^{-2}$
5	1. Dermatological Diseases and Conditions	$1.04 \times 10^{-4} - 4.94 \times 10^{-2}$
	2. Organismal Injury and Abnormalities	$1.04 \times 10^{-4} - 4.08 \times 10^{-2}$
	3. Inflammatory Response	$2.43 \times 10^{-4} - 4.43 \times 10^{-2}$
	4. Immunological Disease	$8.90 \times 10^{-4} - 4.43 \times 10^{-2}$
	5. Genetic Disorder	$1.22 \times 10^{-3} - 2.05 \times 10^{-2}$
6	1. Dermatological Diseases and Conditions	$9.47 \times 10^{-4} - 3.17 \times 10^{-2}$
	2. Organismal Injury and Abnormalities	$9.47 \times 10^{-4} - 4.76 \times 10^{-2}$
	3. Infectious Disease	$1.37 \times 10^{-3} - 4.40 \times 10^{-2}$
	4. Inflammatory Response	$1.81 \times 10^{-3} - 4.11 \times 10^{-2}$
	5. Cancer	$2.88 \times 10^{-3} - 4.70 \times 10^{-2}$
7	1. Organismal Injury and Abnormalities	$7.34 \times 10^{-4} - 4.70 \times 10^{-2}$
	2. Psychological Disorders	$1.83 \times 10^{-3} - 1.83 \times 10^{-3}$
	3. Cardiovascular Disease	$2.16 \times 10^{-3} - 4.70 \times 10^{-2}$
	4. Inflammatory Disease	$2.16 \times 10^{-3} - 2.78 \times 10^{-2}$
	5. Inflammatory Response	$2.16 \times 10^{-3} - 3.93 \times 10^{-2}$