

Biological Process	GeneRatio (approx.)	Enrichment Level (approx.)
immune system process	0.55	High
immune response	0.50	High
adaptive immune response	0.35	Medium-High
immune effector process	0.25	Medium
leukocyte mediated immunity	0.22	Medium
lymphocyte mediated immunity	0.22	Medium
adaptive immune response ba...	0.22	Medium
immunoglobulin mediated imm...	0.22	Medium
B cell mediated immunity	0.22	Medium
positive regulation of immu...	0.20	Low

Figure 3C is a bubble plot showing the enrichment of biological processes in the top 100 genes. The x-axis represents the 'GeneRatio' (0.0 to 0.6). The y-axis lists biological processes. Bubbles are colored by p-value (blue for $p < 0.05$, red for $p < 0.01$, purple for $p < 0.001$) and sized by $-\log_{10}(p\text{-value})$.

Biological Process	GeneRatio (approx.)	$-\log_{10}(p\text{-value})$ (approx.)	p-value Category
tissue development	0.45	4.5	$p < 0.001$
epithelium development	0.35	3.5	$p < 0.01$
epithelial cell differentia...	0.25	2.5	$p < 0.01$
epidermis development	0.22	2.2	$p < 0.01$
skin development	0.20	2.0	$p < 0.01$
epidermal cell differentiation	0.18	1.8	$p < 0.01$
keratinocyte differentiation	0.18	1.5	$p < 0.01$
intermediate filament-based...	0.05	1.2	$p < 0.05$
intermediate filament organ...	0.05	1.0	$p < 0.001$
keratinization	0.05	0.8	$p < 0.001$

Biological Process	GeneRatio (approx.)	Count (dot size)	-log10(p-value) (color)
defense response to symbiont	0.15	10	4.0
innate immune response	0.12	8	3.5
cellular catabolic process	0.12	8	3.0
response to virus	0.10	5	2.5
positive regulation of DNA...	0.08	4	2.0
antimicrobial humoral immun...	0.08	4	1.5
pattern recognition recepto...	0.08	4	1.0
L-amino acid metabolic process	0.05	3	0.5
proteinogenic amino acid me...	0.05	3	0.5
alpha-amino acid metabolic ...	0.05	3	0.5

p.adjust

6e-08 4e-08 2e-08

Gene count

50 100

[illegible]