

**Table 1** Pathway in human and monkey PBMCs after treatment with 10 µg PHA/ml by KEGG pathway analysis of DEGs

	Pathway name	P-value for enrichment	Count (DEGs)
Human	*DNA replication	$1.11 \times 10^{-16}$	18
	*Cell cycle	$1.44 \times 10^{-15}$	27
	Mismatch repair	$6.34 \times 10^{-10}$	10
	Pyrimidine metabolism	$3.80 \times 10^{-7}$	15
	Oocyte meiosis	$2.43 \times 10^{-6}$	15
	p53 signaling pathway	$8.72 \times 10^{-6}$	11
	Nucleotide excision repair	$5.77 \times 10^{-5}$	8
	*Systemic lupus erythematosus	0.001320315	12
	One carbon pool by folate	0.002098523	4
	Monkey	*Cell cycle	$1.39 \times 10^{-7}$
*DNA replication		$7.57 \times 10^{-7}$	6
*Systemic lupus erythematosus		0.000252866	7
Malaria		0.000789218	4
Staphylococcus aureus infection		0.000855251	4
Lysosome		0.003184947	5
Chemokine signaling pathway		0.006346366	6
Other glycan degradation		0.007767431	2
Chagas disease (American trypanosomiasis)		0.011799898	4
NOD-like receptor signaling pathway		0.012418785	3

\*Same pathway found in both human and monkey groups.

**Table 2** Pathway in human and monkey PBMCs after treatment with 10 µg LPS/ml by KEGG pathway analysis of DEGs

	Pathway name	P-value for enrichment	Count (DEGs)
Human	Cytokine-cytokine receptor interaction	$3.74 \times 10^{-9}$	18
	Chagas disease (American trypanosomiasis)	$6.84 \times 10^{-7}$	10
	Chemokine signaling pathway	$4.27 \times 10^{-6}$	12
	NOD-like receptor signaling pathway	0.000130695	6
	Amoebiasis	0.000393937	7
	Malaria	0.000462262	5
	Osteoclast differentiation	0.001219195	7
	Toll-like receptor signaling pathway	0.001905942	6
	*Graft-versus-host disease	0.002155832	4
	Leishmaniasis	0.002372092	5
Monkey	Type I diabetes mellitus	$-2.22 \times 10^{-16}$	16
	Allograft rejection	$2.22 \times 10^{-16}$	15
	Antigen processing and presentation	$2.22 \times 10^{-16}$	19
	*Graft-versus-host disease	$4.44 \times 10^{-16}$	16
	Autoimmune thyroid disease	$1.34 \times 10^{-14}$	15
	Viral myocarditis	$2.02 \times 10^{-14}$	17
	Phagosome	$1.30 \times 10^{-11}$	19
	Cell adhesion molecules (CAMs)	$2.97 \times 10^{-10}$	16
	Staphylococcus aureus infection	$3.73 \times 10^{-9}$	10
	Rheumatoid arthritis	$2.02 \times 10^{-7}$	11

\*Same pathway found in both human and monkey groups.