

IL-6 Deficiency Alters the Course of Infection with *Leishmania major*

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Received 19 . . . h 2001/ . . . n a 7 . m a , . . . n 12 A . . . 2001/A . . . a 2 . . . 2001

Since interleukin-6 (IL-6) may promote Th2 responses, we infected BALB IL-6-deficient (IL-6^{-/-}) mice with *Leishmania major*. There was not a significant difference between the courses of infection (lesion size and parasite burden) in IL-6^{-/-} and wild-type mice, but IL-6^{-/-} mice expressed lower levels of Th2- and Th1-associated cytokines.

h , h) , . . . a a . . . m . 7 . a , . . . n h h . h1
na h2 . . . a . . . h . . . m 7 h a 7 . . . n . . . n . . .
h_m n . . . na a) *Leishmania major*. . . h . a . . .
h1 . . . n . . . a 7 . . . n h *L. major* (. . . 57B /6_m)
7 . m h . n 7 . . . n , h . . . m . h . a . . . h2
n . . . (. . . BA B/ m) . . . n 7 . . . n (. . . a
n . 7 . . . n 3, 10, 16, na 18). A_m n . h . m . n . . . 7
h a . . . m a , . . . h ,) n . . . a h . . . n-6
(. -6) 7 . . . h . . . h 7 h2 . . . (19). ,
n . a n m . . . h , . . . a a . . . , . . . a
-6. . . n . . . h . . . h 7 . . . B- . . . h 7 . . . -6 ,
n . . . n . . . h . . . 7 . . . n . . . m . . . n . . . 7 h m -
m n . . . m (1, 24). (15), h . . . a . . . 57B /6 . . . -
6^{2/2} na a . . . 57B /6_m . . . a 7 m n 7 . . . n ,
h *L. major* . . . h h . . . m . . . n . . . , . . . 57B /6
m a . . . n . . . a . . . h2 . . . n , h n n 7 . . . a . . . h *L.*
major, h , . . . m n , a a a . . . a a . . . h . . . n 7
h h . . . -6 , n . . . a n h2 a . . . m a . . . n , n 7 . . . n
h

$\bar{a} \dots -4 \dots n\bar{a} \dots -13 \dots A \dots n \dots h \dots n$
 $\bar{a} \dots h2 \dots n \dots (3, 10, 12, 18) \dots m \dots \bar{a} \dots -12 \dots n\bar{a}$
 $\dots mm \dots n \dots 7 \dots n \dots (-9) \dots m \dots A \dots n \dots h \dots 7 \dots$
 $\dots) \dots n \dots \bar{a} \dots 7 \dots h \dots \bar{a} \dots 7L \dots major \dots (3, 10, 18) \dots n \dots$
 $m \dots \bar{a} \dots 7 \dots -10 \dots m \dots A \dots n \dots n \dots -10 \dots -$
 $12, \dots n\bar{a} \dots -g \dots h \dots h \dots n \dots (3, 10, 14,$
 $18, 23).$
 $\bar{a} \dots n \dots n \dots m \dots n\bar{a} \dots n \dots n \dots h \dots n \dots \bar{a} \dots n\bar{a} \dots n-$
 $\bar{a} \dots n \dots) \dots h \dots \bar{a} \dots h \dots m \dots (13) \dots h \dots m \dots n \dots \bar{a} \dots 7$
 $7 \dots n \dots n \dots m \dots h \dots n \dots \bar{a} \dots) \dots n \dots (\bar{a} \dots n \dots h \dots n).$
 $\dots m \dots n\bar{a} \dots m \dots 7 \dots m \dots b- \dots n \dots -4, \dots -10, \dots -12,$
 $\dots n\bar{a} \dots -g \dots n \dots \bar{a} \dots m \dots \bar{a} \dots n \dots) \dots h \dots \bar{a} \dots \bar{a}$
 $(13, 17). A \dots m \dots 7 \dots m \dots -13 \dots n \dots \bar{a} \dots n$
 $\dots) \dots) \dots n \dots m \dots ($
 $A \dots A \dots A \dots A \dots A \dots AAA \dots n\bar{a} \dots$
 $A \dots AAA \dots A \dots A \dots A \dots A \dots A$
 $A \dots) \dots n\bar{a} \dots h \dots m \dots \bar{a} \dots (n \dots n \dots -$
 $) \dots \bar{a} \dots 7) \dots h \dots m \dots A \dots -13 \dots m \dots ($
 $\dots A \dots n\bar{a} \dots A \dots AAA \dots)$
 $\dots n\bar{a} \dots h \dots m \dots (13, 17) \dots h \dots \bar{a} \dots 7 \dots m \dots)$
 $\mathbf{B} \dots 7 \dots h \dots n \dots , \dots n \dots (\dots , \dots \bar{a} \dots)$
 $\dots n \dots -) \dots n\bar{a} \dots n \dots n \dots \bar{a} \dots m \dots n \dots \bar{a} \dots$
 $h \dots h \dots 7 \dots h \dots n \dots 7 \dots n \dots h \dots 1 \dots - \dots 7 \dots n \dots$
 $\dots n \dots 7A \dots h \dots m \dots n \dots 7 \dots , \dots n \dots 5 (A \dots h$
 $\dots n \dots h \dots n \dots n\bar{a} \dots , \dots 7) \dots h \dots 7 \dots h \dots h \dots 7$

() -6, $\vec{a} \cdot \vec{b} = 7$, $h = \vec{a} \cdot \vec{b} / |\vec{a}| |\vec{b}|$, $m = n \cdot 7$, $h = h_1 \cdot n \vec{a}$
 $h_2 = \vec{a} \cdot \vec{a} = (21)$.
 A. $h = h_1 \cdot -6$, $n = \vec{a} \cdot \vec{b} / |\vec{a}| |\vec{b}|$, $m = n \cdot 7$, $h = h_1 \cdot n \vec{a}$
 $h_1 = h_2 / |\vec{a}|$, $n = m / n \cdot 7$, $\vec{a} \cdot \vec{b} = L \cdot major$, $n =$
 $7 / h$, $m = n \cdot 7$, $h = h_1 \cdot n \vec{a}$, $h = h_1 \cdot n \vec{a}$)

