

KKU International Teaching Platform

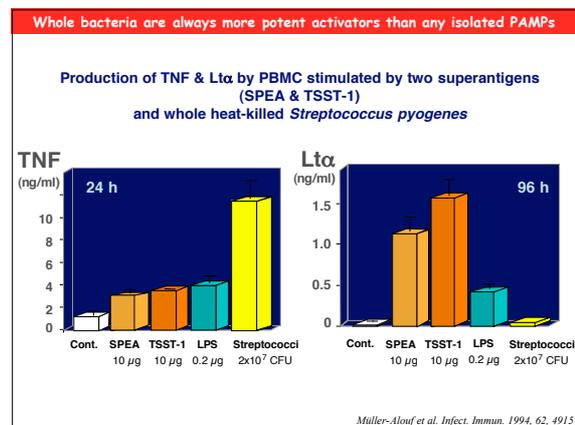
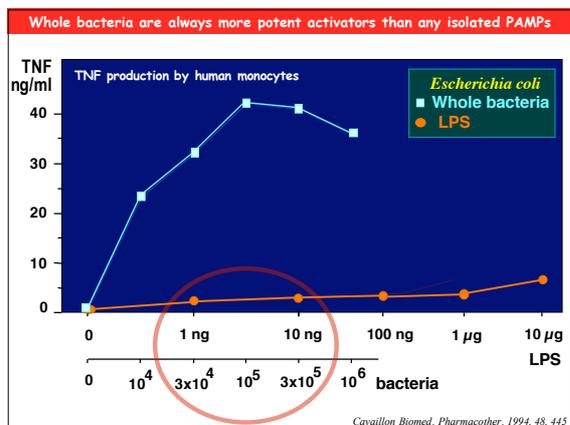
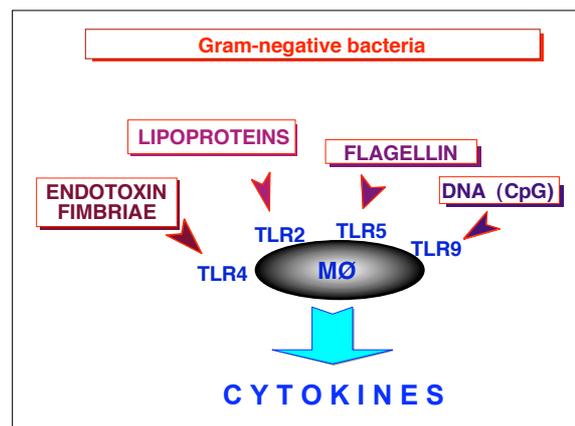
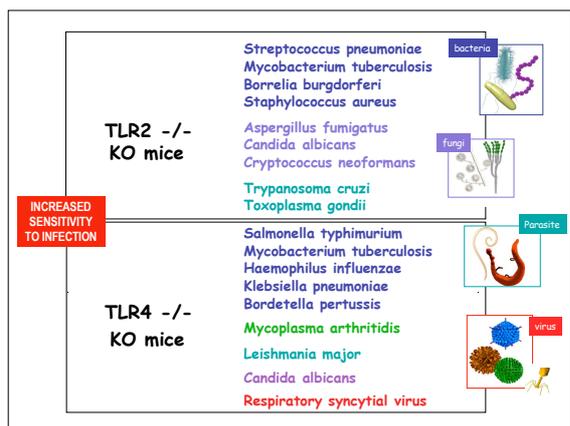
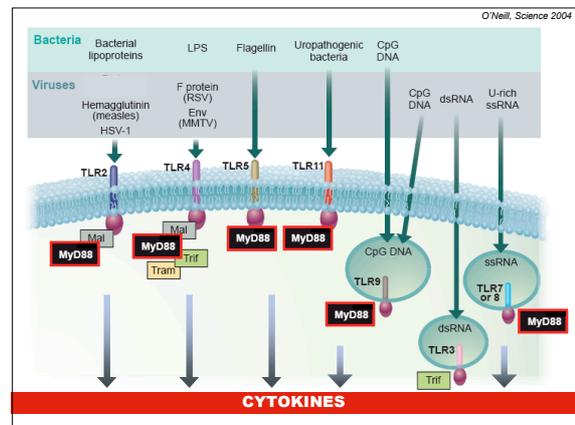
UNIVERSITÉ PIERRE & MARIE CURIE
 KHON KAEN UNIVERSITY

Cytokines and infectious diseases

- 1/ INDUCTION OF CYTOKINES BY MICROBIAL PRODUCTS
- 2/ CO-FACTORS & SYNERGIY
- 3/ INFECTION & Th1 / Th2 PROFILE
- 4/ ANTI-INFECTIOUS PROPERTIES OF CYTOKINES
- 5/ EXACERBATED PRODUCTION & DELETERIOUS EFFECTS
- 6/ STRATEGIES OF PATHOGENS TO COUNTERACT CYTOKINES
- 7/ MODULATION BY NATURAL PRODUCTS

Jean-Marc Cavaillon
 Unit Cytokines & Inflammation

INSTITUT PASTEUR



IN VIVO ?

SHOCK AND MULTIPLE ORGAN DYSFUNCTION AFTER SELF-ADMINISTRATION OF SALMONELLA ENDOTOXIN

Taveira da Silva et al. N. Engl. J. Med. 1993, 328, 1457

1 mg LPS (15 µg/k, i.e. 3750 X dose given to human volunteers)

Hours after LPS injection	Serum concentration (pg/ml)				
	LPS	TNF ELISA	TNF Bioassay	IL-6	IL-8
3.6	nd	14 630	9157	nd	nd
6.8	38	147	17	263 510	16 410
11.5	< 5	nd	nd	51 910	3 190

