

Supplementary Table S4: Differential equations describing TNF/TNFR processes.

$\frac{d[mTNF]}{dt} = v_1 - v_2$	$\frac{d[sTNF / TNFR2]}{dt} = v_4 - v_6 - v_7$
$\frac{d[sTNF]}{dt} = \left(\frac{\rho}{N_{av}}\right)(v_2 - v_3 - v_4) + v_{16}$	$\frac{d[sTNF / TNFR1_i]}{dt} = v_5 - v_{12} - v_{14}$
$\frac{d[TNFR1]}{dt} = v_8 - v_3 - v_{10} + v_{14}$	$\frac{d[sTNF / TNFR2_i]}{dt} = v_6 - v_{13} - v_{15}$
$\frac{d[TNFR2]}{dt} = v_9 - v_4 - v_{11} + v_{15}$	$\frac{d[sTNF / TNFR2_{shed}]}{dt} = \left(\frac{\rho}{N_{av}}\right)v_7 - v_{16}$
$\frac{d[sTNF / TNFR1]}{dt} = v_3 - v_5$	
