1	Figure 5. Titanium triggers inflammasome activation. Titanium particle internalization triggers
2	the release of Cathepsin B from lysosomes, which together activate Nalp3. Activated Nalp3
3	recruits ASC through PYD domain interactions. This complex triggers cleavage and recruitment
4	of activated Caspase-1 through CARD domain interactions. This inflammasome complex then
5	cleaves pro-IL-1 β into its active, secreted form IL-1 β , which can trigger downstream IL-1
6	associated signaling, including neutrophil recruitment, through activation of the IL-1R. This
7	acute inflammatory response can be inhibited with IL-1Ra treatment.
8	Figure S1. Cytokine responses to titanium-particle stimulation. (a) IL-1 β secretion in WT
9	immortalized mouse macrophages incubated with titanium particles only or titanium particles
10	following an LPS prime for 6 h. Dashed line represents LPS prime only values. (b) IL-6
11	secretion following incubation with titanium particles only or LPS only for 6 h. Secreted
12	cytokine levels are mean \pm s.e.m. P-values are shown as *** \leq 0.0001; * < 0.05



 Supplemental Figure 1