



Extended Data Figure 8 | Exposure of cultured cells to sodium tungstate. **a**, Daily water consumption of mice inoculated with *E. coli* K-12. Each dot represents the average daily water consumption (ml per day) of three mice, obtained at eight time points, with two cages per treatment group, $n = 16$. **b**, HeLa57A cells, expressing luciferase under the control of a NF- κ B-dependent promoter, were treated with PMA and sodium tungstate at the indicated concentrations. Relative luciferase activity was determined after 5 h. **c**, **d**, MODE-K or BMDMs cells were treated with DSS or DSS plus sodium tungstate at the indicated concentrations for 24 h. The release of lactate dehydrogenases into the culture supernatant by MODE-K cells (**c**) or BMDMs (**d**) was

measured. In **b–d**, $n = 3$ biological replicates per condition. **e**, **f**, Groups of conventionally raised C57BL/6 mice were treated with DSS for four days. Animals were inoculated intragastrically with an equal mixture of the indicated *E. coli* Nissle 1917 wild-type strain and an isogenic *moaA* mutant. On the day of inoculation, a subset of mice was switched to DSS plus sodium tungstate for four days while a control group remained on DSS treatment. Schematic representation of experiment (**e**). The competitive index in the caecal (white bars) and colon content (grey bars) was analysed 5 days after inoculation (**f**; DSS, $n = 5$; DSS+W, $n = 6$). Data are shown as geometric mean and geometric s.d.