

## Data Dictionary

Field Name	Field Contents
IL-1 beta	Interleukin 1 beta, immune related cytokine that is processed and released during caspase-1 activation.
pg/ml	Picogram/milliliter; concentration of specific cytokine per volume of liquid.
LU	Luminescence units, measurement used in certain plate reader assays.
Fold Change	Fold change in gene expression compared to unexposed control. Determined by real-time PCR
Days of Exposures	Number of consecutive days of triclosan exposure
NLRP3	NOD-, LRR-, and pyrin domain-containing protein 3. Component of the inflammasome, activation of NLRP3 triggers an immune response.
Caspase -1	Enzyme that cleaves other proteins, plays a key role in the inflammatory response.
dLN	draining lymph node; lymph node draining the lung. Tissue used for analysis.
S100A8	S100 calcium-binding protein A8, released by damaged cells and acts as pro-inflammatory factor.
Extracellular ATP	Adenosine 5'-triphosphate, released by damaged cells, can help activate inflammasome.
Group	Indicates specific animal treatment or exposure
mtROS	Mitochondrial reactive oxygen species, ROS produced in mitochondrial electron transport chain, important signaling molecule.

mtMass	Mitochondrial mass, measurement of mitochondrial dynamics and health
MMP	Mitochondrial membrane potential, charge on inner mitochondrial membrane and indicator of mitochondrial activity
CXCL1	Chemokine (C-X-C motif) ligand 1, chemokine that attracts immune cells, associated with inflammasome activation.
CXCL2	Chemokine (C-X-C motif) ligand 2, chemokine that attracts immune cells, associated with inflammasome activation.
CCL2	C-C motif chemokine ligand 2, chemokine that attracts immune cells, associated with inflammasome activation.
CCL19	C-C motif chemokine ligand 19, chemokine that attracts immune cells, associated with inflammasome activation.
CD11b+	Cell population subgroup, myeloid cells that express CD11b
CD11b+Ly6C+	Cell population subgroup, inflammatory monocytes that express both CD11b and Ly6C
CD45+	Cell population of immune cells that express CD45
Macrophages	Immune cell type that digests foreign material or damaged cells.
Neutrophils	Immune cell type that responds to cellular stress.
Circularity	Circularity $[4\pi \times (\text{surface area}/\text{perimeter}^2)]$ is a measurement for sphericity where 1 is a perfect sphere.
Roundness	Roundness $[4 \times (\text{surface area})/(\pi \times \text{major axis}^2)]$ is a measurement for sphericity where 1 is a perfect sphere.
Aspect Ratio	Ratio between the major and minor axis of the mitochondrion.

% Standard ratio	Frequency of mitochondria having a normal morphology.
% Altered ratio	Frequency of mitochondria having an altered morphology.
Opa1	Optic atrophy 1, mediates fusion of the inner mitochondrial membrane.
Drp1	Dynamin-related protein 1, required for mitochondrial fission.
Number	Total number of specific immune cell population present in specific tissue.
Cell Population	Group of cells with the same characteristic.