

Data Dictionary

Field Name	Field Contents
% Body Weight	Weight of tissue in relation to the total weight of animal
% change in body weight	Difference in weight of the animal from the start of the study until day of sacrifice
Alanine Aminotransferase	Type of enzyme mostly located in the liver measured in the serum
Albumin	Protein made by the liver
Alkaline Phosphatase	Type of enzyme mostly located in the liver measured in the serum
ANID	Animal Identification number for each individual mouse
B-cells	B lymphocyte involved in the adaptive immune system that secretes antibodies.
CD11b- DCs	Dendritic cell that does not express CD11b.
CD11b+	Immune cell expressing CD11b.
CD11b+ DCs	Dendritic cell that does express CD11b.
Cd36, Lpl	Cytokines involved in steatosis that were measured in the liver following PFAS exposure.
CD4 T cells	T lymphocytes expressing CD4, or "helper T cells" in indicated tissue.
CD45+	Cell population of immune cells that express CD45
CD8 T cells	T lymphocytes expressing CD8, or "cytotoxic T cells".

CD86 B-cells	Level of expression of CD86 on a b-cell
CD86 DCs	Level of expression of CD86 on a dendritic cell.
Cell Frequency	Percentage of specific immune cell population present in specific tissues compared to other immune cell populations.
Cell Population	Group of cells with the same characteristic.
Cellularity	Number of total cells in a single cell suspension from a tissue.
Cholesterol	Type of lipid produced by the liver measured in the serum, high cholesterol can lead to disease.
Decreased cellularity, lymphocyte	Histopathologic finding in spleen
Dendritic cells	Immune cell that processes antigen material and presents it to the T cells.
dLN	draining lymph node; lymph node draining the lung. Tissue used for analysis.
Eosinophils	Immune cell lymphocyte involved in inflammation.
Fold Change	Fold change in gene expression compared to unexposed control. Determined by real-time PCR
Globulin	Group of proteins in your blood made in the liver
Glucose	Simple sugar used as energy source and component of many carbohydrates.
Group	Indicates specific animal treatment or exposure
Hyperplasia	Increased number of keratinocyte layers

Hypertrophy	Increase in the size of liver cells
IL-1 β , IL-6, Tslp, Cxcl1, S100a8a, Il-10, Ctse, Abcg1	Immune related cytokines that were measured in the ear/spleen/liver following PFAS exposure.
Infiltrate, mononuclear cell	Histopathologic finding in the kidney
Inflammation, neutrophilic, focal	Increase of neutrophils in the liver
Lor, Flg, Krt10, Flg2, Itgbl1, Krt14	Genes involved in skin barrier function measured in the ear following PFAS exposure.
MFI	Median fluorescent intensity, measures level of expression on a per cell basis.
mg/dL	Milligram per deciliter, measurement of the amount of a substance in a specific amount of blood.
MHCII B-cells	Level of expression of the major histocompatibility complex II on a b-cell
MHCII DCs	Level of expression of the major histocompatibility complex II on a dendritic cell
Minimal, mild, moderate, marked	Histopathology terms in terms of severity of damage to a tissue by the chemical exposure where "minimal" is the least amount of damage and increases to "marked" as the most severe amount of damage.
Natural Killer cells	Immune cell lymphocyte involved in the innate immune response.
Necrosis	Form of cell injury which results in premature death of cells
Neutrophils	Immune cell type that responds to cellular stress.
Number of cells	Total number of specific immune cell population present in specific tissue.

PFC	Plaque-forming cell measured in sheep red blood cell assay
PFHpS	The synthetic polyfluoroalkyl substance, perfluoroheptane sulfonic acid, applied to the ears of the mice
PFOS	The synthetic polyfluoroalkyl substance, perfluorooctane sulfonic acid, applied to the ears of the mice
Pla2g12a, Avpr1a, Apoa1	Genes involved in hepatotoxicity
Pltp, Ppar α , Ppar δ , Ppar γ , Acox1, Ehhadh, Cpt1b, Cyp4a10	Cytokines that are Ppar target genes involved in fatty acid metabolism and ligand transport measured in the liver/spleen/ear following PFAS exposure.
Serpine1	Cytokine involved in necrosis that was measured in the liver and ear following PFAS exposure.
Tlr5, 6, 7, 8	Pattern recognition receptor
Total Protein	Measurement of all the protein in your blood
U/L	Units per liter
Urea Nitrogen	Normal waste product produced by the liver, released into the blood.
VC	Acetone vehicle control applied to the ears of the mice