

Data Dictionary

Field Name	Field Contents
PFBA	The synthetic polyfluoroalkyl substance, heptafluorobutyric acid, applied to the ears of the mice
Fold Change	Fold change in gene expression compared to 0% PFBA control. Determined by real-time PCR
dLN	draining lymph node; lymph node draining the lung. Tissue used for analysis.
ANID	Animal Identification number for each individual mouse
% change in body weight	Difference in weight of the animal from the start of the study until dpi indicated
% Body Weight	Weight of tissue in relation to the total weight of animal
Treatment	Indicates specific animal treatment or exposure
Hyperplasia	Increase in number of keratinocyte layers in the skin
Hyperkeratosis	Increase in amount of compressed keratin in the skin, thickening of the outer layer of the skin.
Necrosis	Form of cell injury which results in premature death of cells
Inflammation	Neutrophil, lymphocyte, and/or macrophage influx scattered within the fibrosis
Erosion/ulcer	Partial or full thickness defects in the skin associated with neutrophilic inflammation

Fibrosis	Wound healing with connective tissue leading to tissue remodeling
Degeneration/regeneration	Defect in cartilage
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.
Hypertrophy	Increase in the size of liver cells
Cell Population	Group of cells with the same characteristic.
Cell Frequency	Percentage of specific immune cell population present in specific tissues compared to other immune cell populations.
Cell Number	Total number of specific immune cell population present in specific tissue.
Cellularity	Number of total cells in a single cell suspension from a tissue.
CD45+	Cell population of immune cells that express CD45
CD4 T cells	T lymphocytes expressing CD4, or "helper T cells" in indicated tissue.
CD8 T cells	T lymphocytes expressing CD8, or "cytotoxic T cells".
Eosinophils	Immune cell lymphocyte involved in inflammation.
NK cells	Immune cell lymphocyte involved in the innate immune response.
Neutrophils	Immune cell type that responds to cellular stress.

Dendritic cells	Immune cell that processes antigen material and presents it to the T cells.
CD11b+	Immune cell expressing CD11b.
CD11b- DCs	Dendritic cell that does not express CD11b.
CD11b+ DCs	Dendritic cell that does express CD11b.
MFI	Median fluorescent intensity, measures level of expression on a per cell basis.
B-cells	B lymphocyte involved in the adaptive immune system that secretes antibodies.
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
CD86 B-cells	Level of expression of CD86 on a b-cell
CD86 DCs	Level of expression of CD86 on a dendritic cell.
Value	Number associated with the serum parameter measured
Cholesterol	Type of lipid produced by the liver measured in the serum, high cholesterol can lead to disease.
mg/dL	Milligram per deciliter, measurement of the amount of a substance in a specific amount of blood.
Alkaline Phosphatase	Type of enzyme mostly located in the liver measured in the serum
U/L	Units per liter

Alanine Aminotransferase	Type of enzyme found mostly in the cells of the liver, measured in the serum.
Glucose	Simple sugar used as energy source and component of many carbohydrates.
Urea Nitrogen	Normal waste product produced by the liver, released into the blood.
Total protein	Includes both albumin and globulin.
g/dL	Grams per deciliter
Albumin	Protein made by the liver that carries substances throughout body, measured in the serum
Globulin	Protein made by the liver important in many immune functions, measured in the serum.
IL-1beta, IL-6, Tslp, S100a7a, S100a8a, Cxcl1, Cxcl2, Nfkb	Immune related cytokines that were measured in the ear following PFBA exposure.
Cd36, Lpl, Scd1	Cytokines involved in steatosis that were measured in the liver following PFBA exposure.
Fabp1	Cytokine involved in phospholipidosis that was measured in the liver following PFA exposure.
Krt8	Cytokine involved in hepatotoxicity that was measured in the liver following PFBA exposure.
Serpine1	Cytokine involved in necrosis that was measured in the liver and ear following PFBA exposure.
Pltp, Scd1, Fabp5, Ppara, Acox1, Ehhadh	Cytokines that are Ppara target genes involved in fatty acid metabolism and ligand transport measured in the liver and/or the ear following PFBA exposure.