

Field Name	Field Definition
TLR-4	Toll-like Receptor-4
hTLR-4	Humanized Toll-like Receptor-4
LLNA	Local Lymph Node Assay
Ni	Nickel
NiSO ₄	Nickel sulfate
NiONP	Nickel oxide nanoparticles
VC	Vehicle control (mineral oil)
Animal #	Unique identifier for each animal of the study
Sex	Animal sex: Male (M)or Female (F)
Genotype	Humanized Toll-like Receptor-4 genotype: positive or negative
Treatment	Study exposure group
Concentration	Concentration of exposure treatment (% w/v)
DPM	Disintegrations per minute- measure of radioactivity
IgE	Concentration of serum IgE (ng/mL)
IFN-g	Serum IFN-g cytokine concentration (pg/mL)
IL-2	Serum IL-2 cytokine concentration (pg/mL)
IL-12	Serum IL-12 cytokine concentration (pg/mL)
IL-4	Serum IL-4 cytokine concentration (pg/mL)
IL-5	Serum IL-5 cytokine concentration (pg/mL)
IL-9	Serum IL-9 cytokine concentration (pg/mL)
IL-13	Serum IL-13 cytokine concentration (pg/mL)
IL-6	Serum IL-6 cytokine concentration (pg/mL)
IL-10	Serum IL-10 cytokine concentration (pg/mL)
LN	Auricular lymph nodes
LN Cell#	Total number of cells in the lymph nodes
LN CD4+ %	Lymph node CD4+ T-cell percentage
LN CD4% act	Percentage of lymph node CD4+ T-cells expressing an activated (CD44hi) phenotype
LN CD8+ %	Lymph node CD8+ T-cell percentage
LN CD8% act	Percentage of lymph node CD8+ T-cells expressing an activated (CD44hi) phenotype
LN B%	Lymph node B-cell percentage
LN B% act	Percentage of lymph node B-cells expressing an activated (CD86hi) phenotype
LN NK%	Lymph node NK cell percentage
LN NonL%	Total percentage of lymph node non-lymphoid cells
Spl	Spleen
Spl Wt	Spleen weight (g)
Spl CD4+%	Spleen CD4+ T-cell percentage
Spl CD4% act	Percentage of spleen CD4+ T-cells expressing an activated (CD44hi) phenotype
Spl CD8+%	Spleen CD8+ T-cell percentage
Spl CD8% act	Percentage of spleen CD8+ T-cells expressing an activated (CD44hi) phenotype

Spl B%	Spleen B-cell percentage
B% act	Percentage of spleen B-cells expressing an activated (CD86hi) phenotype
Spl NK%	Spleen NK cell percentage
Spl Lymph%	Spleen lymphoid cell total percentage
Spl NonL%	Spleen non-lymphoid cell total percentage
Bld	Whole blood
Bld Lymph	Blood lymphocyte number
Bld Neutr	Blood neutrophil number
Bld Mono	Blood monocyte number
Bld Eos	Blood eosinophil number
Bld Baso	Blood basophil number
Total WBC#	Total number of blood white blood cells
Bld Lymph%	Blood lymphocyte percentage
Bld Neutr%	Blood neutrophil percentage
Bld Mono%	Blood monocyte percentage
Bld Eos%	Blood eosinophil percentage
Bld Baso%	Blood basophil percentage