

Title of Dataset

Interleukin-11 Receptor Subunit Alpha-1 is Required for Maximal Airway Responsiveness to Methacholine After Acute Exposure to Ozone_Dataset

Data Dictionary

Field Name	Field Content
A (ml)	estimate of inspiratory capacity
Area/A (cm H ₂ O)	respiratory system hysteresis (Area) normalized by the estimate of inspiratory capacity (A)
BAL	bronchoalveolar lavage
cm	centimeter
C _{stat} (ml/cm H ₂ O)	quasi-static respiratory system compliance
Exposure	filtered room air or ozone exposure
G	coefficient of lung tissue damping
Genotype	genotype of experimental animal
H	coefficient of lung tissue elastance
h	hour
H ₂ O	water
IL-6	interleukin-6
IL-11	interleukin-11
Il11ra1	interleukin 11 receptor, alpha chain 1
K (cm H ₂ O ⁻¹)	curvature of the upper portion of the expiratory limb of the pressure-volume curve
KC	keratinocyte chemoattractant
MIP-3 α	macrophage inflammatory protein-3 α
μ g	microgram
mg/ml Methacholine G (cm H ₂ O/ml)	concentration of methacholine delivered to the animal to elicit a coefficient of lung tissue damping response
mg/ml Methacholine H (cm H ₂ O/ml)	concentration of methacholine delivered to the animal to elicit a coefficient of lung tissue elastance response
mg/ml Methacholine R _{aw} (cm H ₂ O/ml/s)	concentration of methacholine delivered to the animal to elicit an airway resistance response
ml	milliliter
ng	nanogram
Normalized Fold Change	measure describing how abundance of interleukin 11 receptor, alpha chain 1 (<i>Il11ra1</i>) messenger ribonucleic acid (mRNA) normalized to abundance of hypoxanthine guanine phosphoribosyl transferase (<i>Hprt</i>) mRNA in ozone-exposed mice changes relative to that of <i>Il11ra1</i> mRNA normalized to abundance of <i>Hprt</i> mRNA in air-exposed mice
pg	picogram
PV curve	quasi-static pressure-volume (PV) curve of respiratory system
R _{aw}	airway resistance
s	second
TNF	tumor necrosis factor
sTNFR 1	soluble tumor necrosis factor 1
sTNFR 2	soluble tumor necrosis factor 2