

## Data Dictionary

Field Name on Data Page (excel file)	Field Definition
Tail_ID	The randomly assigned ID for each tail (cadaver or live)
Test_Day	Tails were tested on multiple days
Station_ID	Tails were tested on 4 different stations
Freq(Hz)	1/3 octave bands center frequencies (Hz)
Tr_Mag(ratio)	The magnitude of transfer function, ratio of vibration output versus input
Tr_Phase(degree) Tr_Phase(radian)	The phase angle (degrees or radians) of transfer function
Time(minute)	Time into the 4-hour exposure test (in minutes) of cadaver tail
Round_Number	Sequences of repetitive measurements of the entire frequency band (20 to 1000 Hz)
Tail_Type	L: tail of live rats; C tail of cadaver rats
Stiffness	Stiffness ( $K_R$ ) of the tail
Damping_Value	Damping value ( $C_R$ ) of the tail
Natural_Frequency	Natural frequency ( $f_n$ ) of the tail exposure system
Damping_Ratio	Damping ratio ( $\zeta$ ) of the tail exposure system

Proximal_diameter(mm)	Diameter on the Proximal side of the exposed tail segment in mm
Distal_diameter(mm)	Diameter on the distal side of the exposed segment of the tail in mm
Tail_length(mm)	Length of the exposed segment of the tail in mm
Tail_mass(g)	Mass of the exposed segment of the tail in gram