

Lung Anatomy + Particle Deposition (lapd) Mouse Archive for Modeling and Computational Toxicology

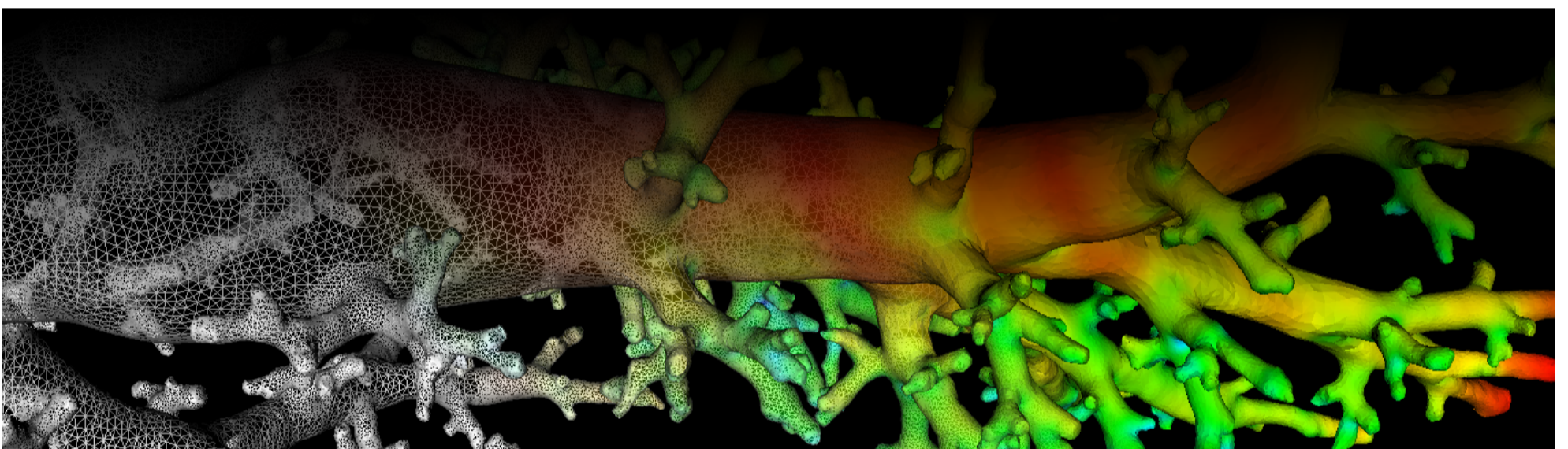


Table *_NearAciniDeposition.csv

Aerosol deposition measurements for near acini compartments.

The measurements table contains measurements for each near acini compartment. The near acini region is represented by labelmap [*_NearAcini.nrrd](#). Related normalized aerosol deposition measurements are taken from [*_AerosolNormalized.mha](#). Each row contains the following information for a compartment:

- **label**: unique label of the compartment corresponding to region label in [*_NearAcini.nrrd](#).
- **volume**: volume of compartment in (mm³)
- **mean, sigma, median, min, max**: Aerosol deposition measurements for the compartment (average, standard deviation, median, min and max value)
- **count**: number of voxels in the compartment
- **centroidX, centroidY, centroidZ**: 3d center of gravity of the compartment
- **bbox...**: axis aligned bounding box around the compartment

label	volume	mean	sigma	n
1	8.22704	135.472	199.591	9
2	7.71769	144.553	113.925	1
3		129.74	108.395	1
4		54.181	72	1
5		21.1	32	1
6				1
7				1
8				1
9	5.1			7

A 3D visualization of a compartment, likely a near acini compartment, showing a cluster of colored spheres (voxels) in various colors (blue, green, yellow, orange, red) arranged in a roughly spherical shape. The spheres are of varying sizes and are clustered together, representing the spatial distribution of the compartment.

Code Example

This example shows how to read and interpret deposition measurement tables. It explains the organization of the stored information, shows how to create simple visualizations, identify and plot information.

[CompartmentDepositionMeasurements.ipynb](#) hosted with ❤ by [GitHub](#)

[view raw](#)

Related Data Structures

[* NearAcini.nrrd](#) | [* AerosolNormalized.mha](#)

Related Code Examples

[CompartmentDepositionMeasurements.ipynb](#) | [imageLabelStatistics.cpp](#)

Updated: 7/24/19
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