



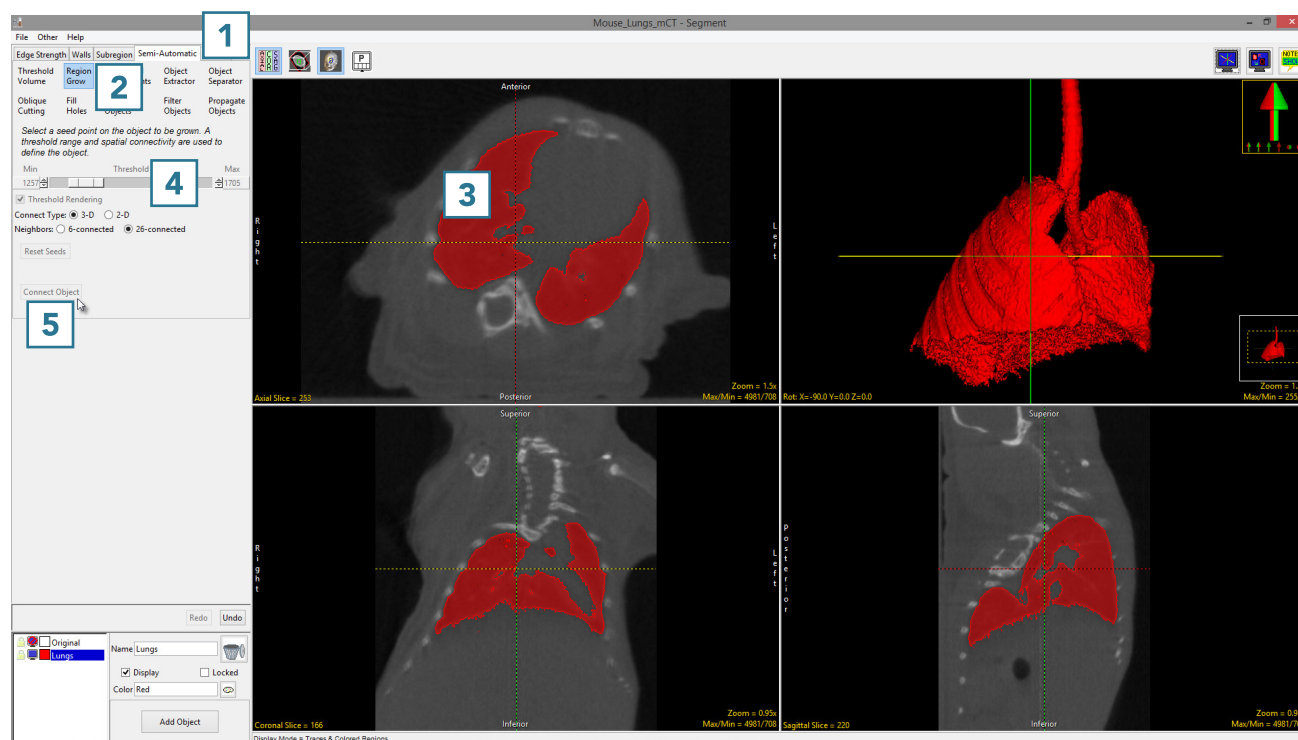
## Filter Objects

Filtering objects can reduce noise, fill small holes, and smooth edges. The filter is only applied to segmented objects and does not change the original data.

- Select the data set and open Segment.
- Select Semi-Automatic **1** and choose Region Grow. **2**
- Set a seed point on the object you want to isolate **3** and set a threshold range **4** that describes the object.
- Click Connect Object. **5**

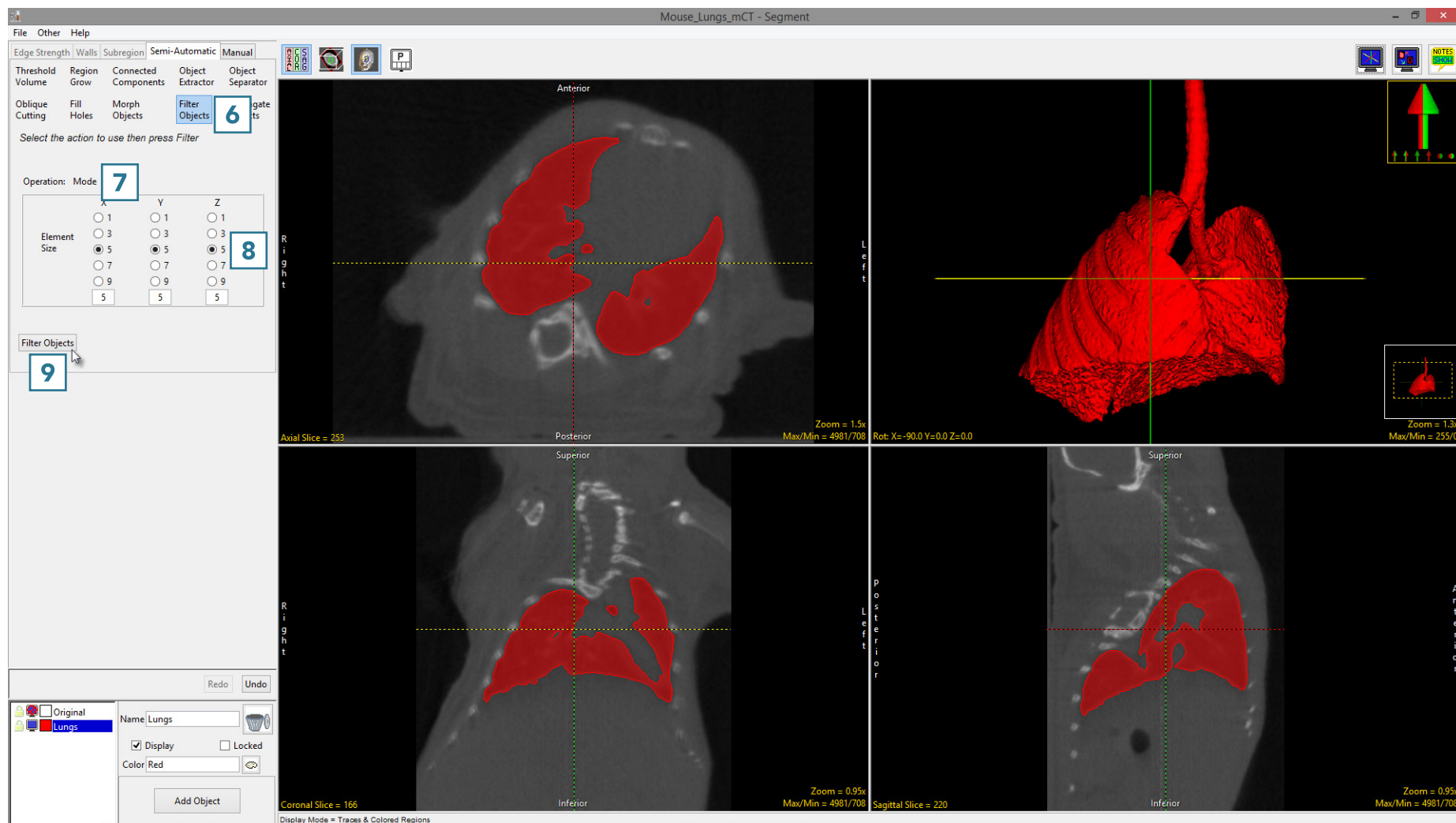


Download the Mouse\_Lungs data set to follow along  
<http://analyzedirect.com/data/>





- Select Filter Objects. **6**
- Set the Operation to Mode. **7**
- Set the Element Size to 5 X 5 X 5 **8** and select Filter Objects. **9**





Note the difference in the 2D and 3D regions between the unfiltered **10** and filtered **11** segmentation results. Filtering has filled small holes, removed noise around the surface of the lung parenchyma and smoothed the contours of the segmentation.

