

## COUNT OF PRIMARY FOLLICLES IN RABBIT OVARIES

### Sample Description

Glass slide with several layers of rabbit ovaries.

### Purpose of Analysis

To demonstrate the capability of the image analysis to discriminate primary follicles from the rest of the ovary, and give a length distribution versus count. In this application, the operator had to manually edit the image to exclude the light gray portion from the final count. Key functions used are: delineate and top hat.



Figure 1: Original image (100X)

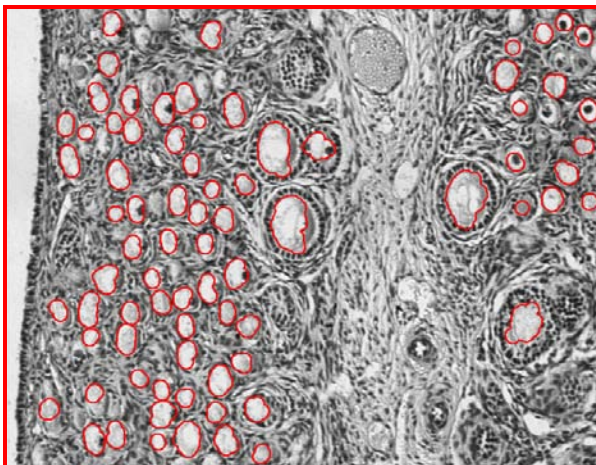


Figure 2: The picture above shows the final detection (red) of follicles presented in Outline mode.

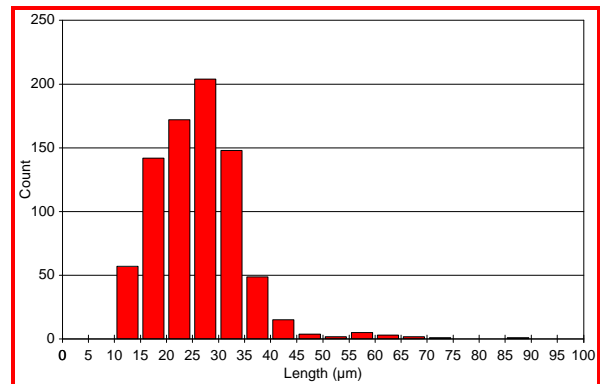


Figure 3: Length distribution for each primary follicles measured. The count is an integral part of the statistics

### Apparatus

**I.A. System:** Clemex ImPak & Vision 2.0 s.w.  
**Microscope:** Nikon Optiphot-2 (5, 10, 20, 40X) with transmitted light  
**Stage:** Motorized Marzhauser ek8b-s1 (100 x 100 mm) with auto focus drive  
**Camera:** Sony XC 77CE, B/W

### Results Summary

	Length (µm)
<b>Minimum</b>	13.2
<b>Maximum</b>	87.6
<b>Average</b>	26.0
<b>Standard Deviation</b>	8.6
<b>Count</b>	805