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Barnacle Counting Protocol

PLOS One

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11671

- 1 Open ImageJ in Chevron Visualization Lab computer --> Plugins --> Cell Counter.
- 2 In ImageJ window, click File Open to open raw image file.
- 3 In the Cell Counter click Initialize.
- 4 Review the image to identity *Orbicella franksi* colonies by selecting the Magnifying Glass tool from the ImageJ window to zoom in or out.
- 5 Zoom in on the first colony to 200%.
- 6 Select Text tool from ImageJ window.
- 7 In the Cell Counter window, select Type 2 from Counters. Counter Type 1 is not used because the color is not visible on Viz Lab Screen. Counters can be enlarged from initial settings to be visible on Viz Lab Screen.
- 8 Mark all barnacle holes on a single colony.

- 9 Use the Magnifying Glass to zoom in or out if necessary and use the Scrolling tool to scroll around.
- 10 Once all the barnacles on a single colony have been marked, select Counter Type 3 and scroll to the next colony.
- 11 Repeat with all remaining colonies. If the Counter color is not visible select Type 4 or Type 7 (deep reds).
 - a. We recommend changing counters between colonies to avoid large stretches of barnacle counts (>1000) that can increase the chances of accidental data loss.
- 12 For each image, record the barnacle count on paper.
- 13 Click Results in Cell Counter window. In Results window, click File --> Save as marker count. Label with PhotoIDresults to export results.
- 14 Click Export Image in Cell Counter window. In ImageJ window, click File --> Save as --> JPEG. Label with PhotoIDvizphoto.