

## Supplementary Information

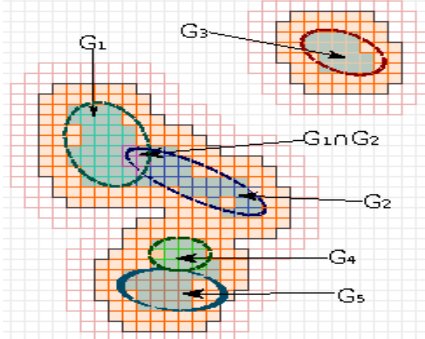
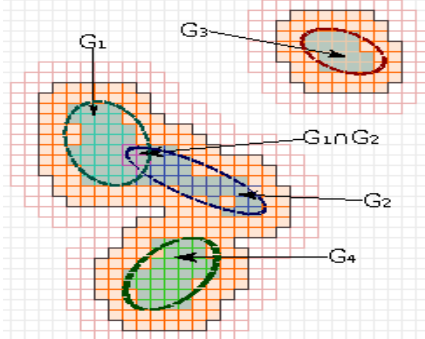
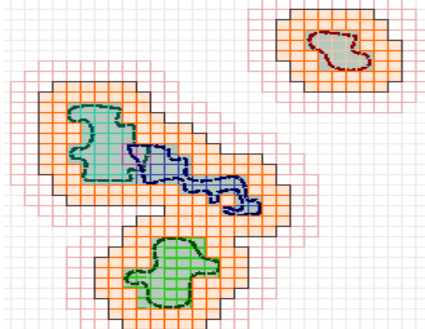
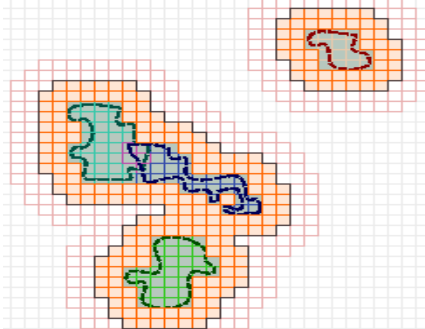
<p><b>Preprocessing:</b>          We segment pixels to putative cell groups.          We oversegment here so that every cell is covered by at least one cell group. Groups can overlap, as shown for <math>G_1</math> and <math>G_2</math>.</p>	
<p><b>Estimation of Group Configuration:</b>          We merge/delete putative cell groups to approximate cell configurations.          In this example, <math>G_4</math> and <math>G_5</math> are merged together.</p>	
<p><b>Optimization of Group Boundaries:</b>          We fit a continuous contour for every group.</p>	
<p><b>Local Pixel Refinement:</b>          We optimize the boundary pixels of every cell group according to content criteria in Section 2.</p>	

Table 1. *Diagram for all four steps of the procedure*