1. Spatial calibration and outline along the edge of the leaf.

2. Measure the area of selected leaf.
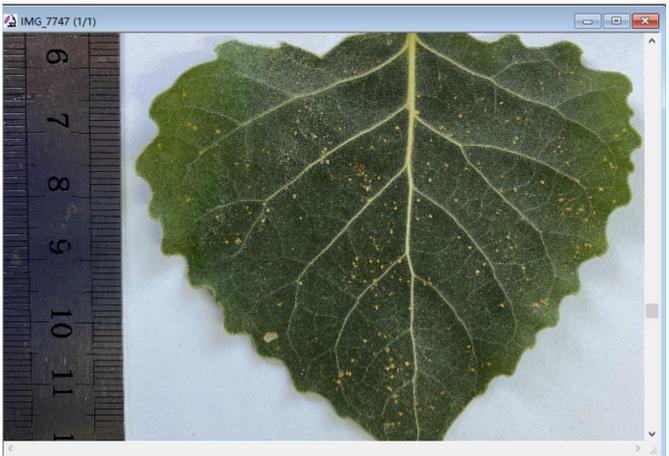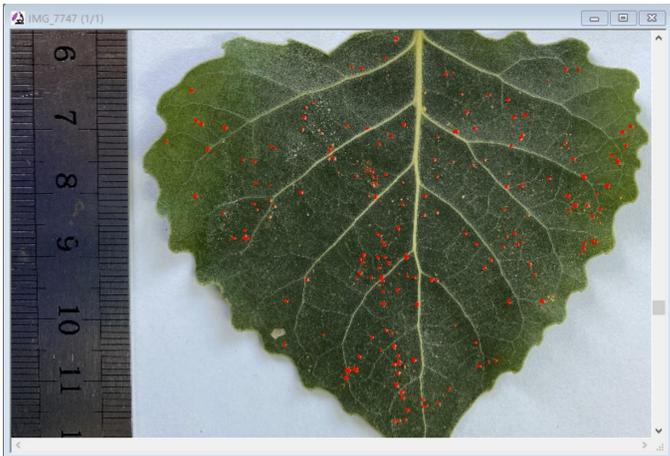
3. Use color separation method to select uredinia.

4. Artificially adjust the uredinia numbers compared to images to avoid mistaking.