

# Proposal for quantifying wounding response

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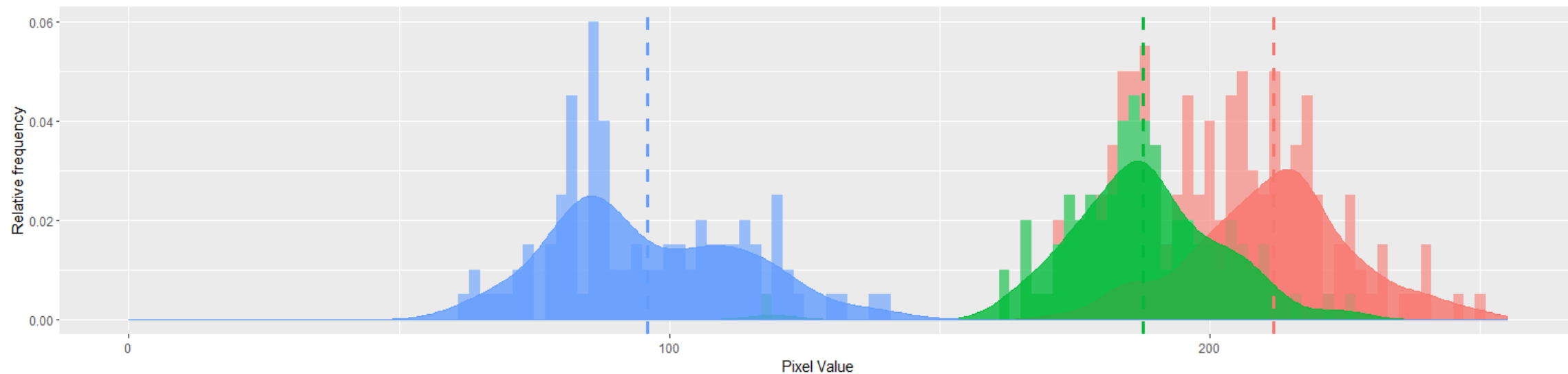


# General approach

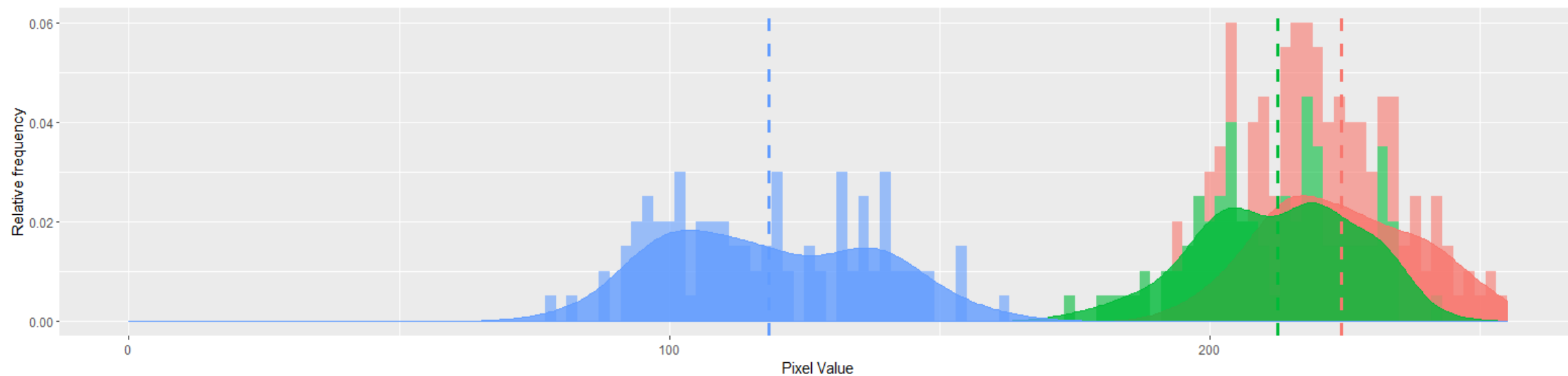
1. Analyze pixel RGB values @ wounding site
2. Use pixels from control treatment to develop RGB pixel threshold
3. Apply threshold to all images to determine % of pink pixels

# Differences in RGB profiles

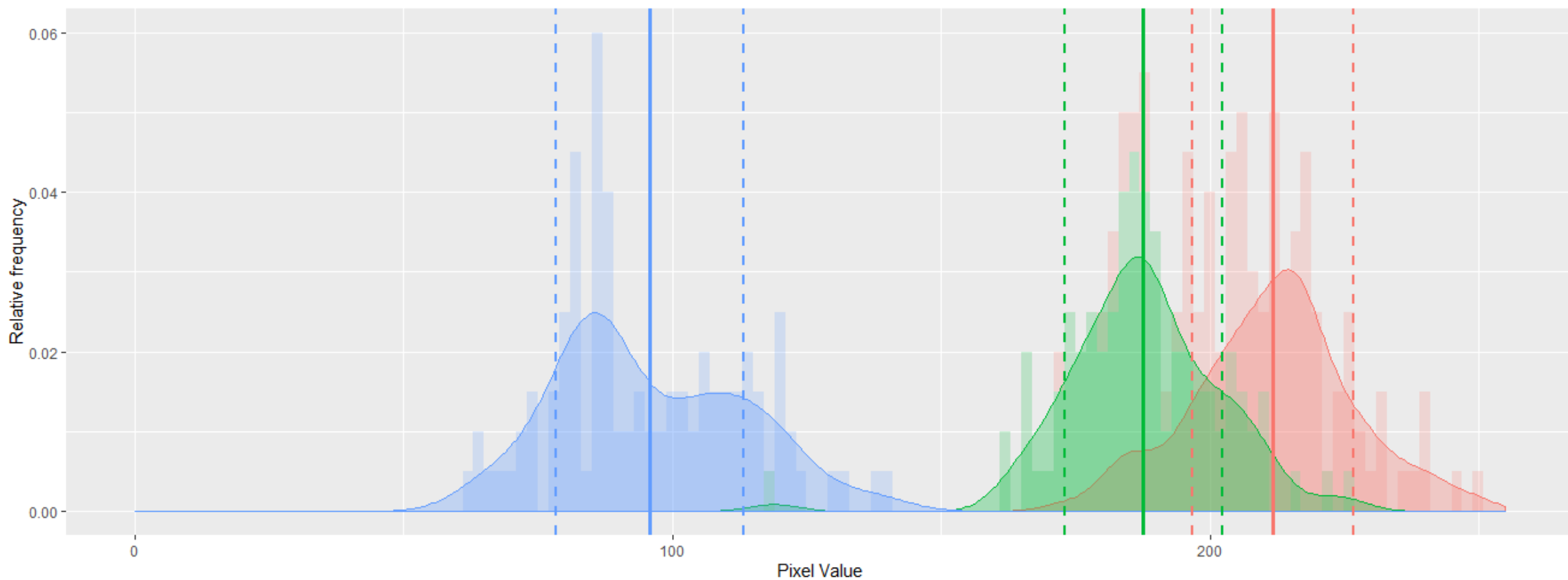
Control



Melatonin  
1000 ppm



# Threshold RGB values for pinking



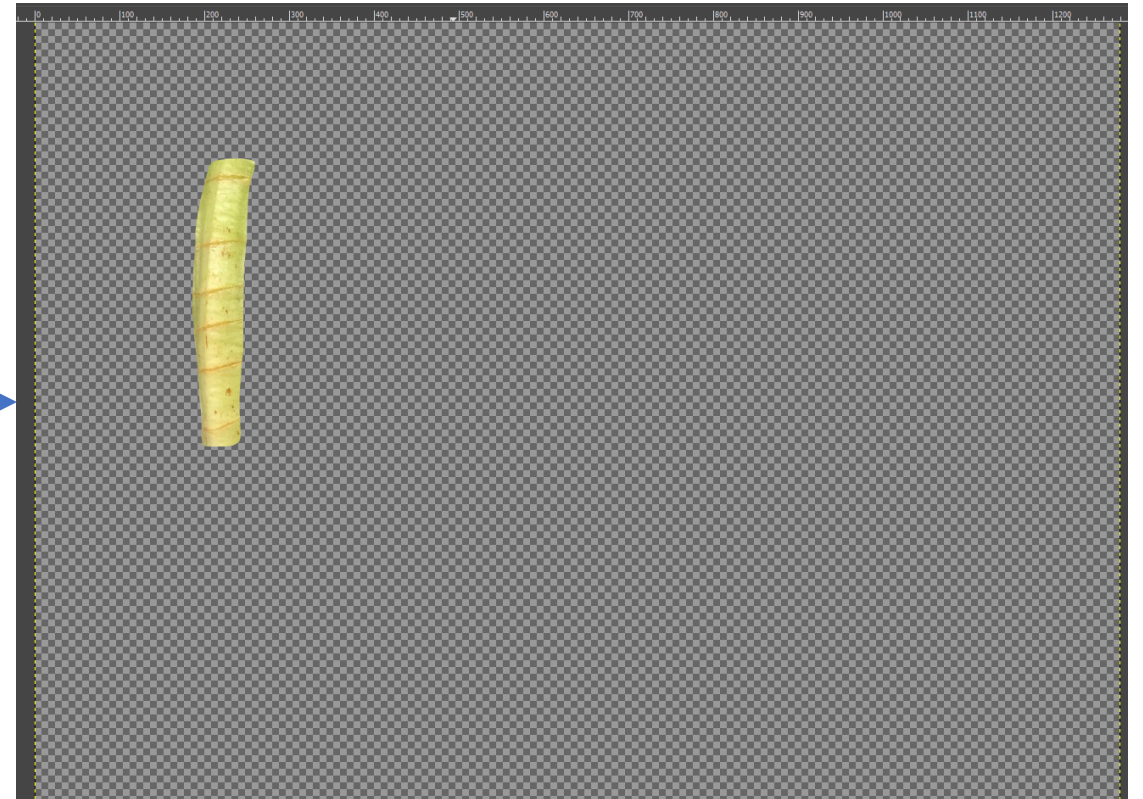
# Quantifying pinking response

**Calculate % of pixels that meet threshold to be considered pink:**

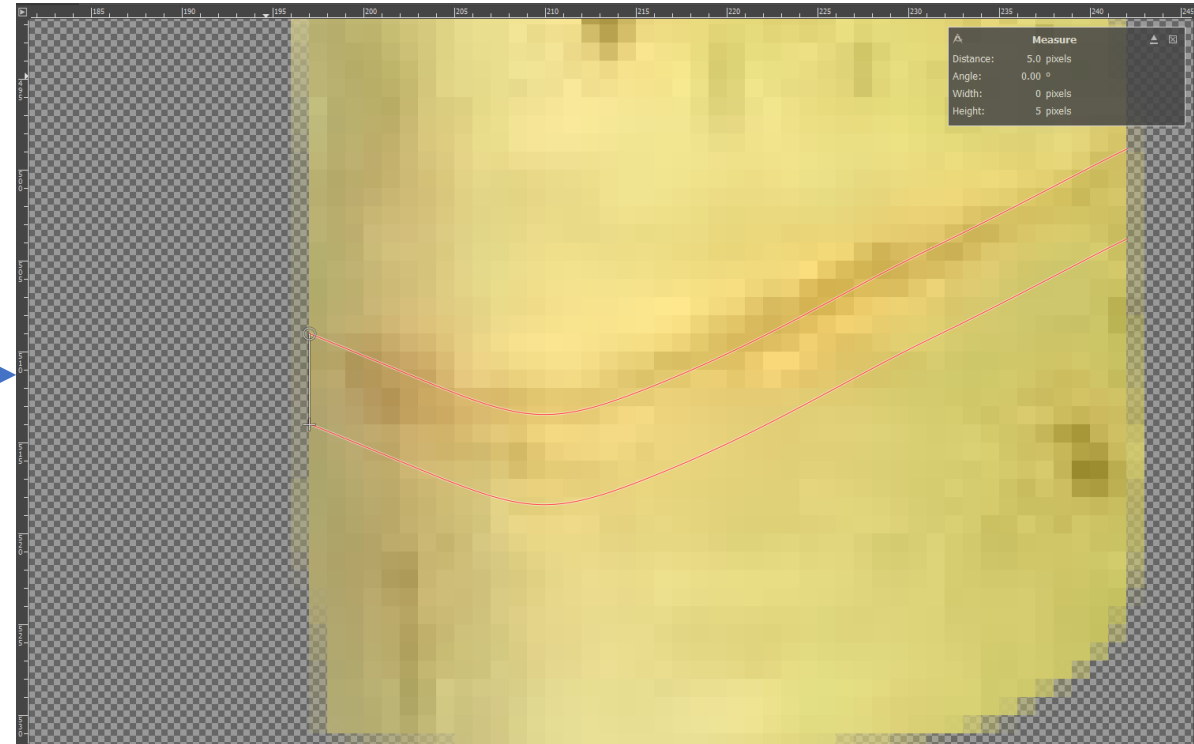
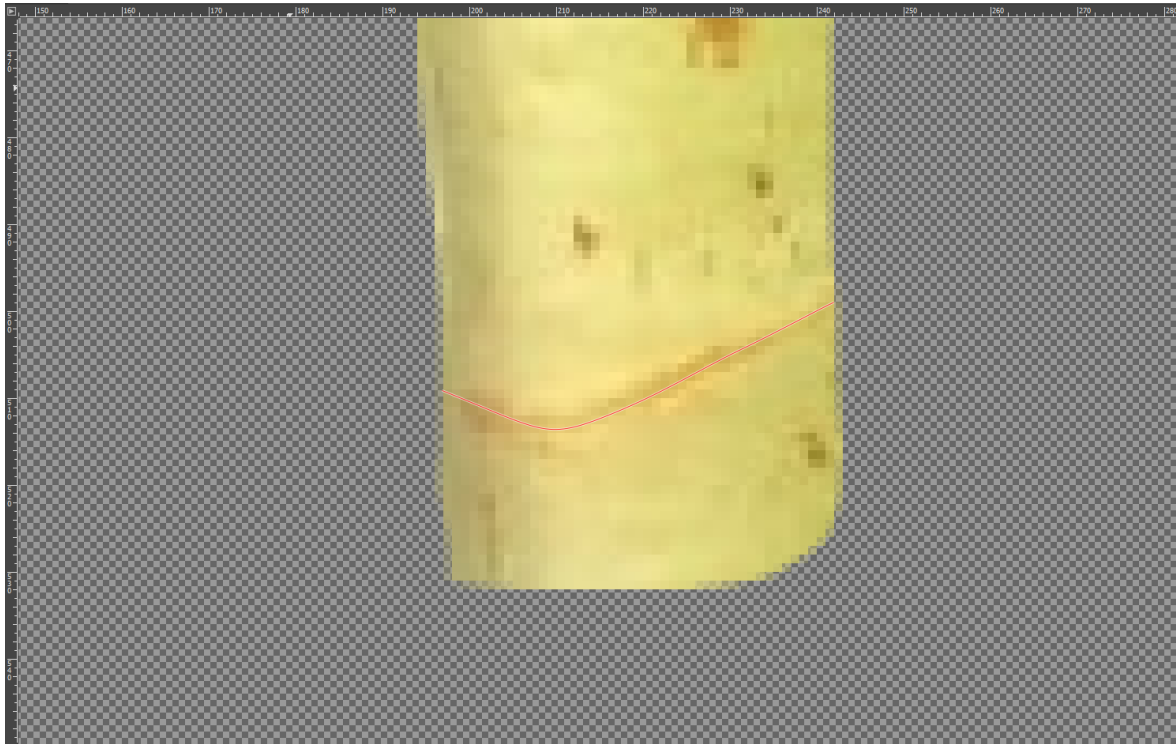
- Standardize area considered
- Count pixels in area that meet threshold



# Image processing in GIMP

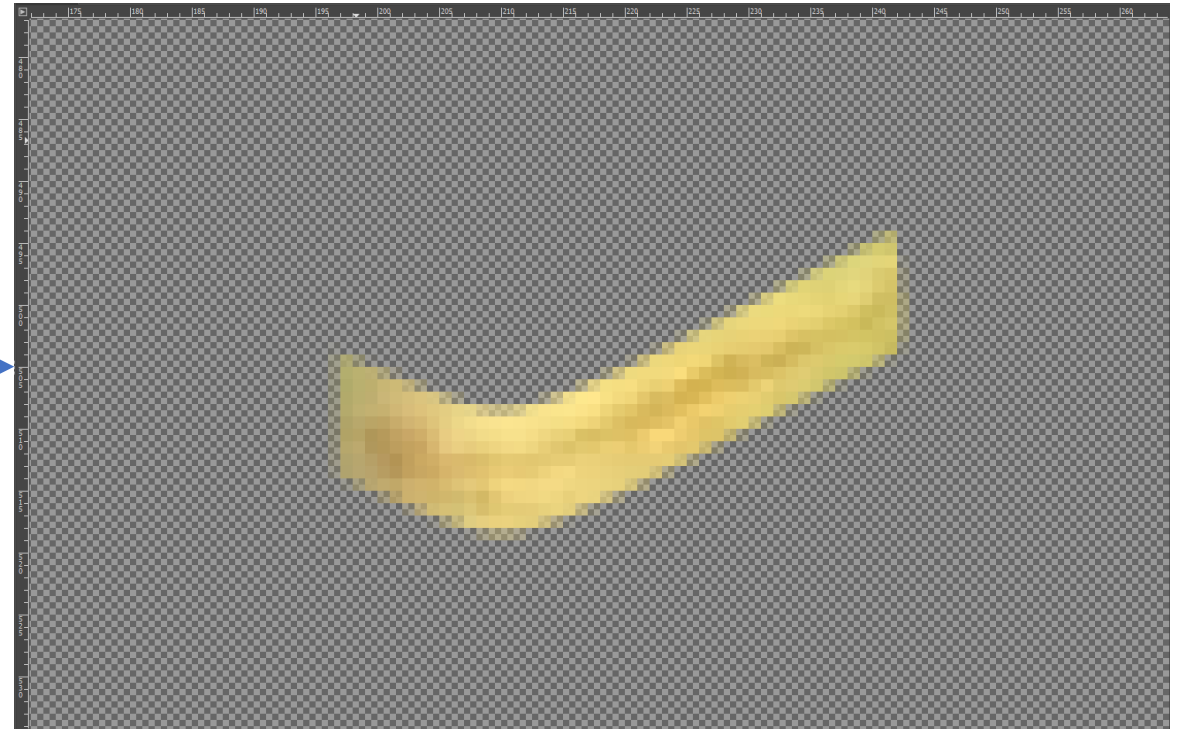
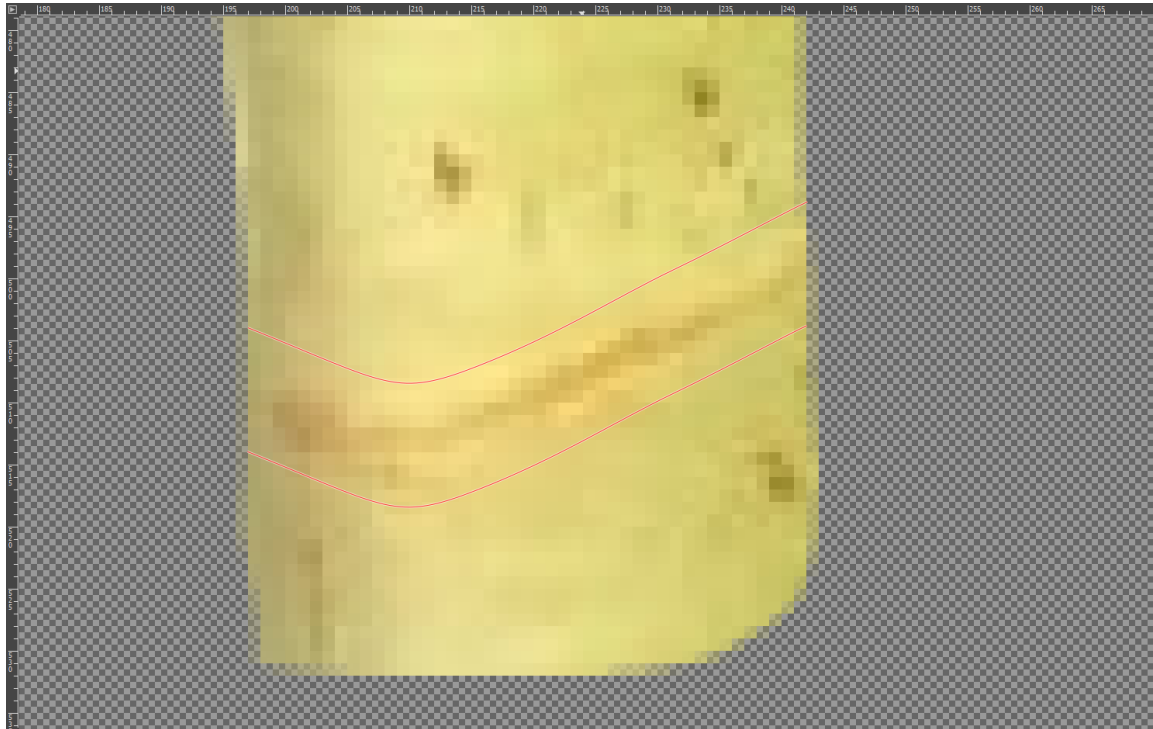


# Image processing in GIMP





# Image processing in GIMP





# Output

- Calculate % pink pixels for each wounding site
- Standard deviation and significance of treatments

