

# Algorithm for Morphological Cancer Detection

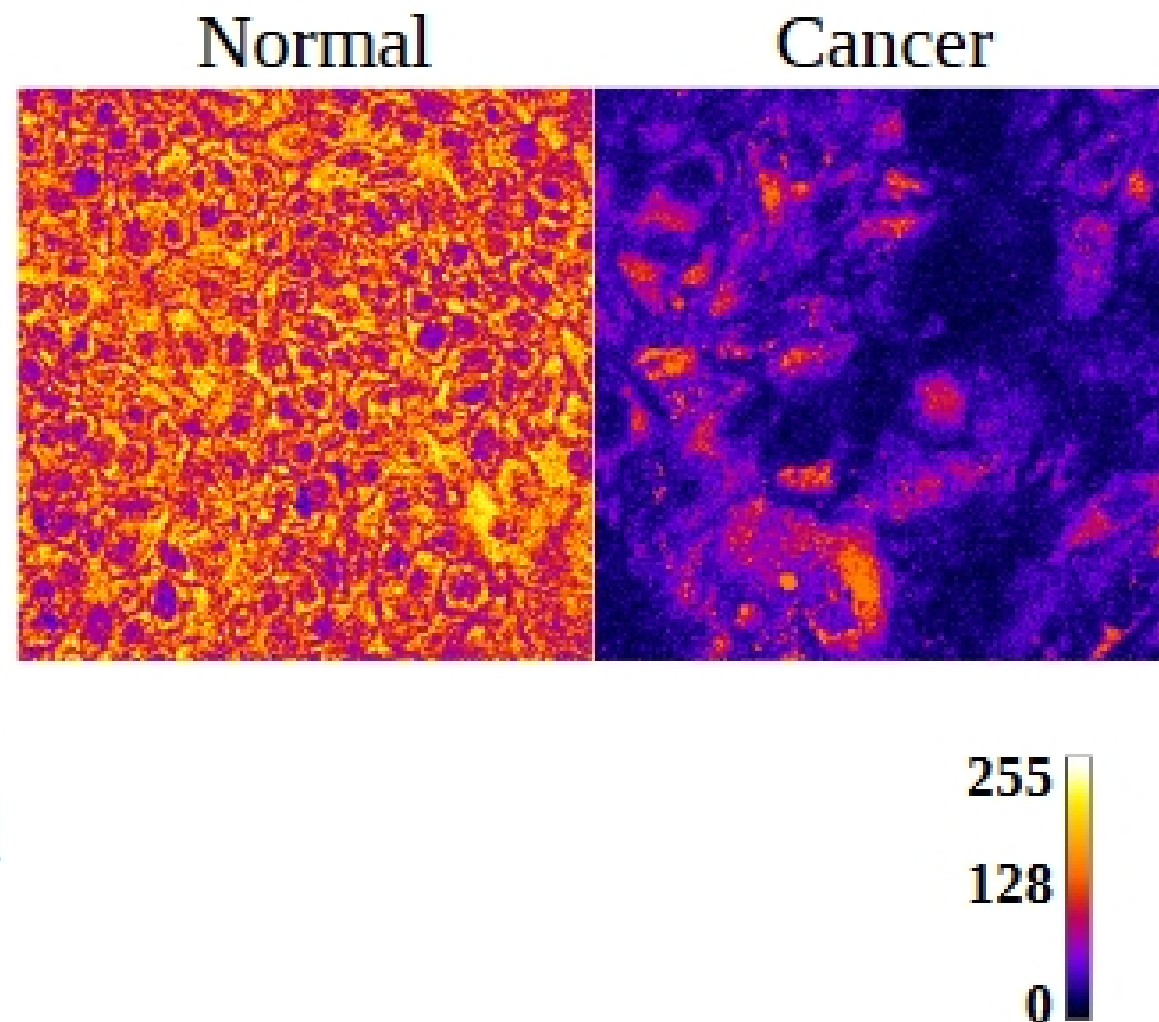
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# Background

- Cancer diagnosis relies on morphological differences between normal and cancerous tissues
- Cancerous cells are more disorganized than normal cells
- Multiphoton microscopy has been used to evaluate cell morphology in normal and cancerous tissues



# Goal

Develop an algorithm that provides relative differences in cell organization between multiphoton images of normal and cancerous tissues<sup>1</sup>

1. Fitzke, F.W., *Fourier Transform Analysis of Human Corneal Endothelial Specular Photomicrographs*. *Exp Eye Res*, 1997. 65