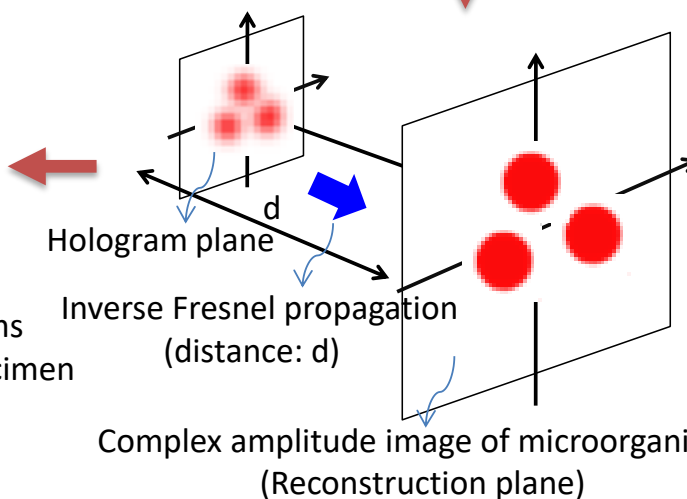
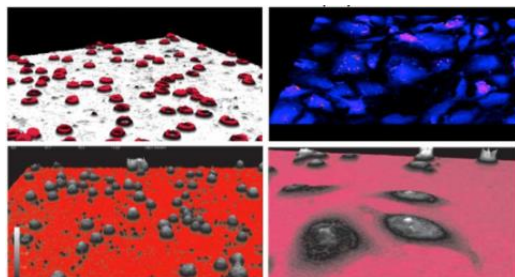
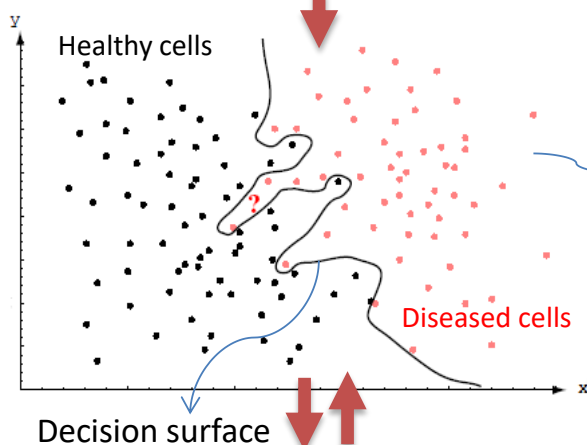


1. Record optical signature of the specimen such as its digital hologram or Gabor hologram with an image sensor.



3. Apply pattern recognition algorithms to the reconstructed biological specimen and their extracted features for cell identification and classification.

2. Reconstruct the biological specimen image from Gabor hologram using numerical Fresnel transform.



Scatter plot for classifying cells

4. Identify specimens by using statistical testing. The disease identification system can be connected to a remote database containing data on various diseases.

