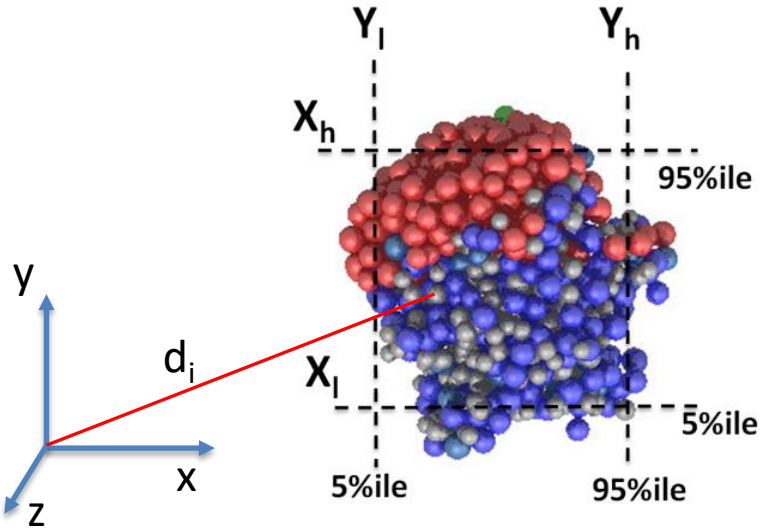
Biofilm/Floc Characterization



Radius of agglomerate = $R_a = \sqrt{\frac{\sum_{i=1}^{n} m_i d_i^2}{\sum_{i=1}^{n} m_i}}$

Mean radius of particles = $R_m = \frac{\sum_{i=1}^{n} r_i}{n}$

Fractal dimension = $\frac{\ln(R_a / R_m)}{\ln(n)}$

X_l=mean of the 5%ile particle coordinates

X_h=mean of the 95%ile particle coordinates

$X_{span} = X_h - X_l$

Span=$0.5(X_{span} + Y_{span})$