Geometric Characterization of Pores

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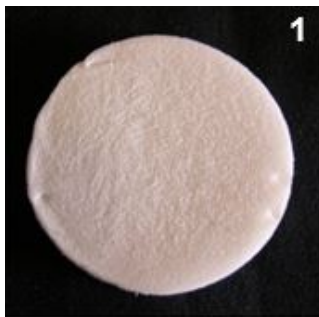
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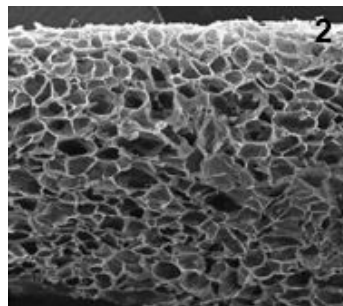
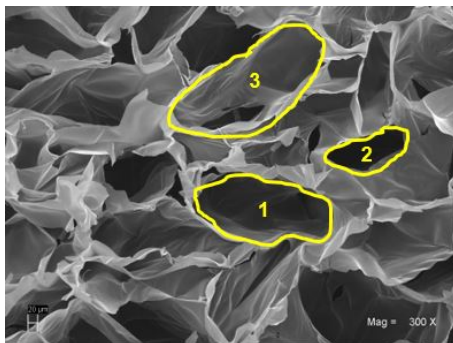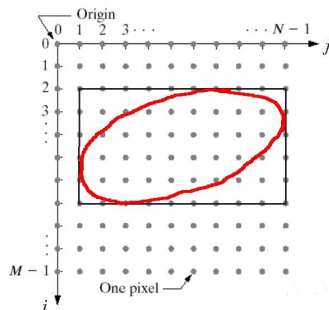# Introduction

biopolymer material

Microstructure

How characterize a pore?

Digital image of pore silhouette

Formalization of the problem

$$b = \text{máx}\{i \in I : x_{i,j} = 0, \text{for some } j \in I\}$$

$$c = \text{máx}\{j \in I : x_{i,j} = 0, \text{for some } i \in I\}$$

$$d = \text{mín}\{i \in I : x_{i,j} = 0, \text{for some } j \in I\}$$

$$a = \text{mín}\{j \in I : x_{i,j} = 0, \text{for some } i \in I\}$$

Analysis