

Figures 1 to 6 : Main filamentous bacteria responsible for bulking in activated sludge processes

☞ sketch

☞ morphology, Gram stain, Neisser stain , sulphur granule determination

☞ *classification (Bergey's Manual of Systematic Bacteriology, J.G. Holt et N.R. Krieg, 1984-1989) and relationship with water treatment*

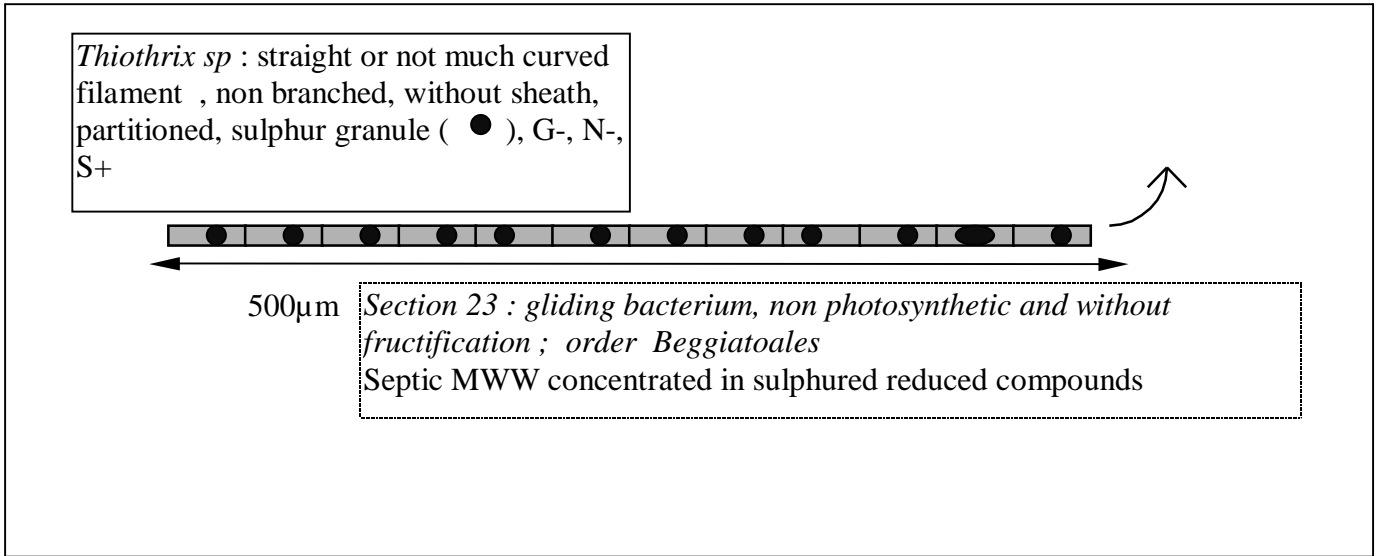
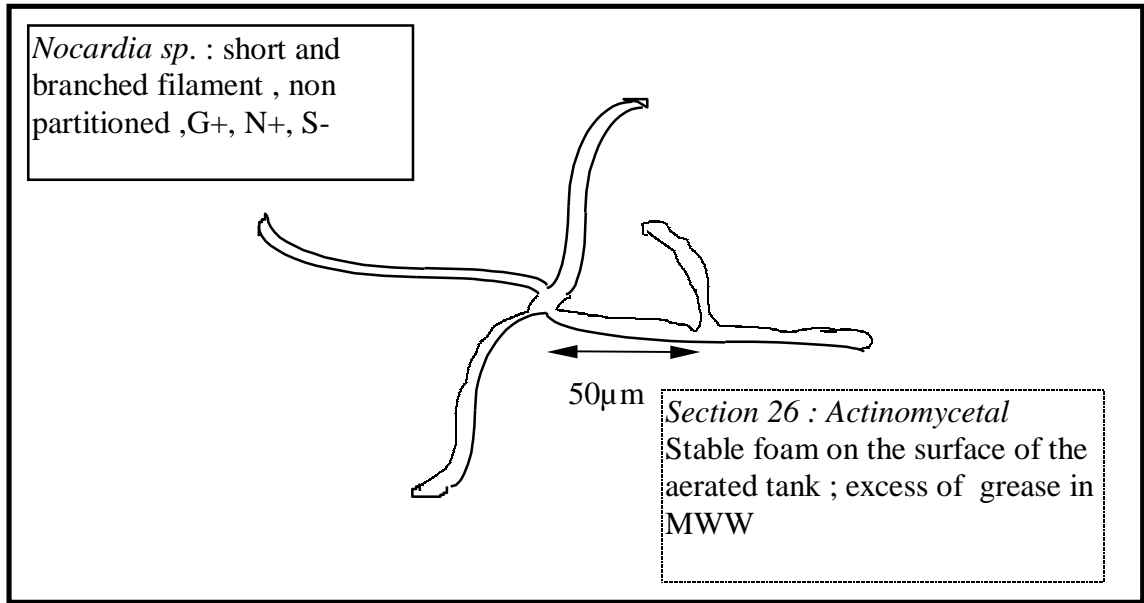
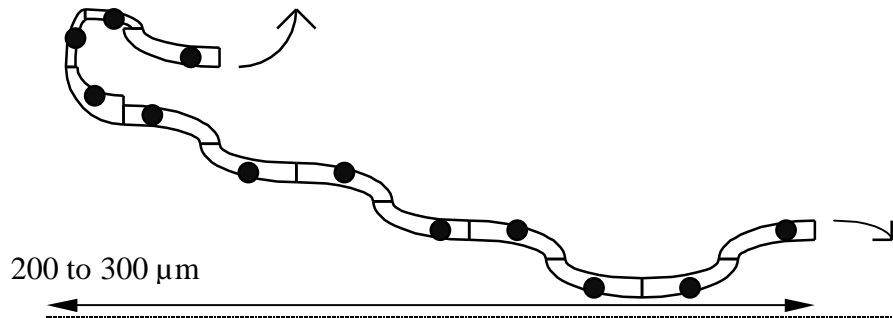


Figure 2

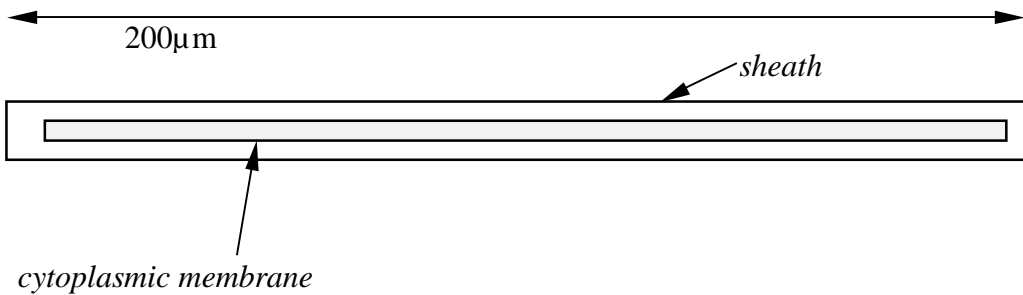
Beggiatoa sp. : flexible filament , mobile, partitioned, sulphur granule,
G-, N-, S+



Section 23 : gliding bacterium, non photosynthetic and without
fructification ; order *Beggiatoales*
Observed in insufficiently aerated attached growth



Haliscomenobacter : Thin and straight
filament, non partitioned , sheath, G-, N-,
S-



Section 22 : sheathed bacteria
Insufficiently aerated sludge



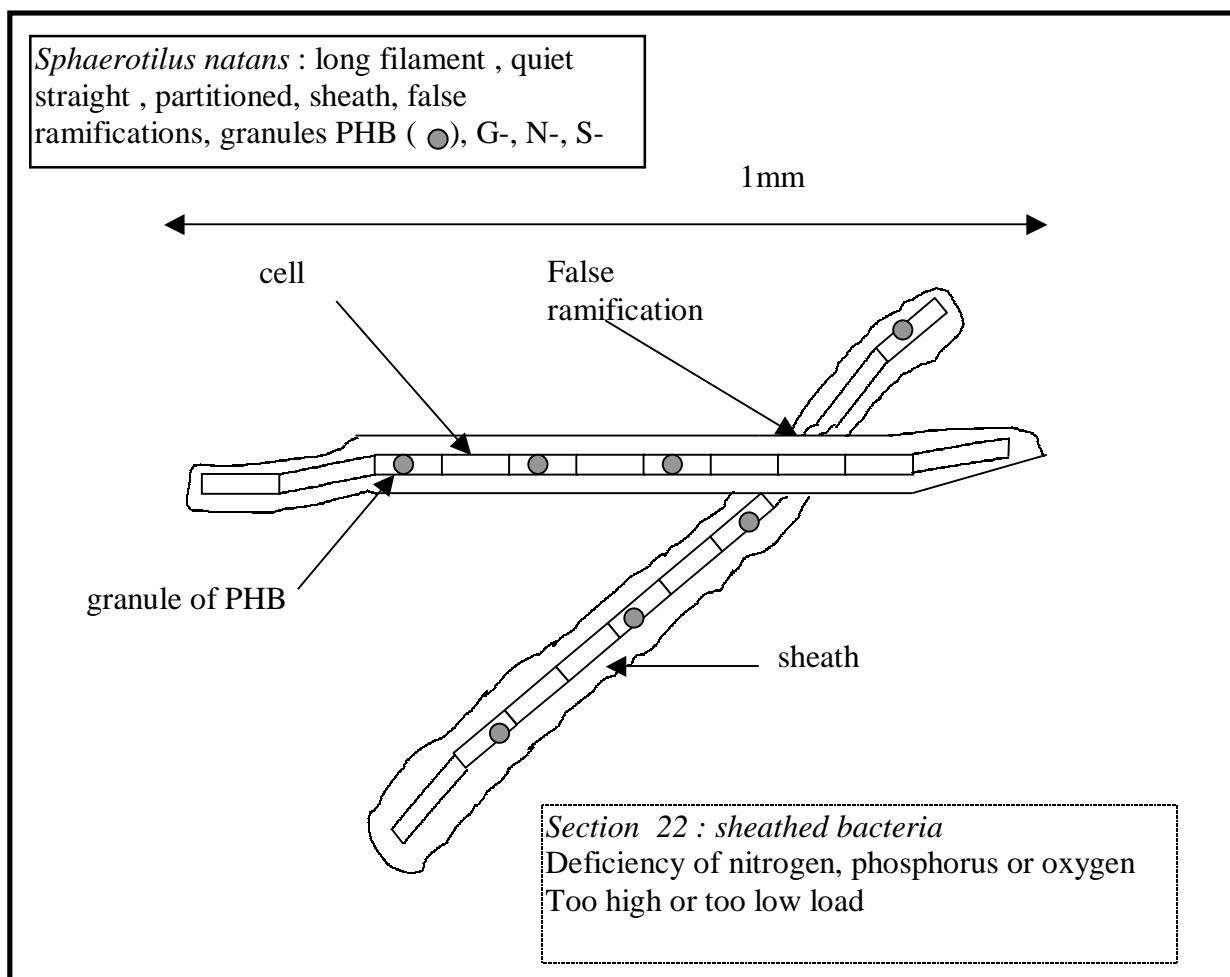
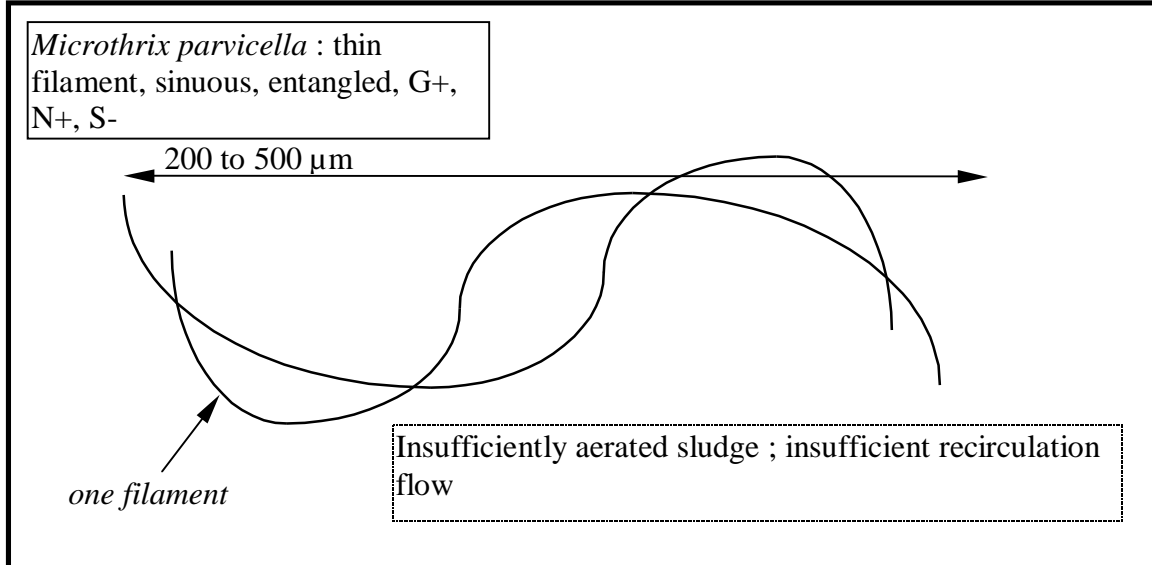


Figure 6