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Linking composition of extracellular polymeric substances (EPS) to the physical structure and hydraulic resistance of membrane biofilms

Peter Desmond, James P. Best, Eberhard Morgenroth, Nicolas Derlon



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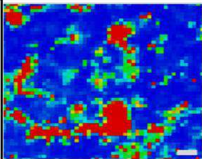
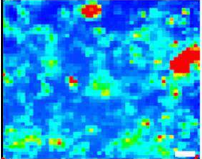
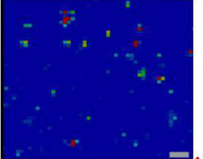
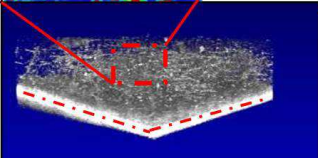
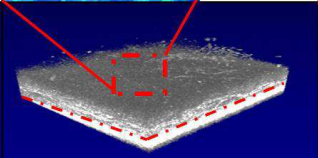
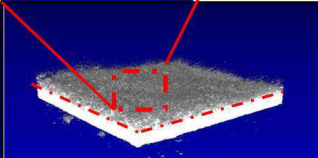
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Graphical Abstract

Nutrient condition	Nutrient enriched	P limiting	N limiting
Chemical composition Polysaccharide eDNA Protein	+ + ++++	++++ ++++ +	+ + ++
Functional group distribution	 Heterogeneous distribution	 Homogeneous distribution	 Heterogeneous distribution
Mesoscale physical structure			
Hydraulic resistance	++	++++	+

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