Supplementary Material for:

Review

Insights into the Morphology and Surface Properties of Microalgae at the Nanoscale by Atomic Force Microscopy (AFM): A Review

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Table S1. Microalgal species and parameters studied by AFM.

Species	Parameters studied	Cell viability	References
Amphipleura pellucida	nanomorphology	dead	15
Bacteriastrum jadranum	nanomorphology of the "cell's jacket"	dead	37
Bacillaria paxillifer	nanomorphology	dead	72
Chaetoceros decipiens *Chaetoceros diversum* *Chaetoceros gracilis* *Chaetoceros laciniosis*	nanomorphology	dead	72
Chlorella sorokinian	visualization of floc formation in presence or absence of algae	live	23
Chlorella vulgaris	interaction of hydrophobic bubble with algal cells	live	79
Chlorococcum sp.	elasticity	live	31
Coscinodiscus sp.	elasticity	dead	28
Coscinodiscus wailesii	nanomorphology	dead	72
Crasepdostauros australis	nanomorphology of cells and their surface mucilage layer, elasticity of mucilage polymer chains	live	64
	adhesion of cell to mucilage layer		55
Craticula sp.	nanomorphology	dead	12
Cyclotella meneghiniana	nanomorphology	dead	72
Cylindrotheca closterium	nanomorphology of cells and released extracellular polymers, elasticity, adhesion	live	21, 22
	nanomorphology, elasticity, deformation	live and dead	29
	nanomorphology and elasticity of the cells exposed to polystyrene nanoplastics	dead	32
	nanomorphology of the cells exposed to Ag nanoparticles	dead	36
	nanomorphology of the cells exposed to cadmium	dead	66
Cylindrotheca fusiformis	nanomorphology of the cells exposed to silver nanoparticles	dead	36
Ditylum brightwellii	nanomorphology	dead	70
	nanomorphology	dead	72
Dunaliella tertiolecta	nanomorphology of plasma membrane vesicles	dead	18
	elasticity of the cells exposed to cadmium	live	19
	nanomorphology, elasticity, hydrophobicity	live	20
	nanomorphology of cells and released extracellular polymers, elasticity, adhesion	live	21, 22
Emiliania huxleyi	nanomorphology	live	60
Eunotia sudetica	nanomorphology, thickness of the organic coating encasing the siliceous skeleton	live	59
Gomphonema	nanomorphology	dead	12
Gyrosigma	nanomorphology	dead	12
Lithodesmium undulatum	elasticity	live	27
Nannochloropsis sp.	elasticity	live	31

Navicula sp.	adhesion of cell to different surfaces	live	35
Navicula seminulum	nanomorphology, thickness of the organic coating encasing the siliceous skeleton	live	59
Navicula pelliculosa	nanomorphology of diatom frustule	dead	68
Nitzschia	nanomorphology	dead	12
Nitzschia navis-varingica	nanomorphology of cells and their surface mucilage layer, elasticity of mucilage polymer chains	live	64
Nitzschia palea	adhesion of cell to different surfaces	live	78
Ostreopsis cf. *ovata*	nanomorphology of the cell and mucilage layer	dead	16
Pinnularia viridis	nanomorphology of the cell and mucilage layer	live	14
	nanomorphology of the cell and mucilage layer, elasticity of mucilage polymer chains	live	64
Phaeodactylum tricornutum (different morphotypes)	nanomorphology, elasticity	live	26
Porphyridium cruentum	nanomorhphology of phycobilisomes and native thylakoid membranes	dead	25
Prorocentrum donghaiense	nanomorphology	live	17
Scenedesmus dimorphus	elasticity	live	30
Stauroneis	nanomorphology	dead	12
Thalassiosira pseudonana	nanomorphology of diatom silica structures	dead	71
Tetraselmis suecica	nanomorphology of the cells and released extracellular polymers, elasticity, adhesion	live	21, 22
	force and energy required for the cell disruption	live	38
Thalassiosira eccentrica	nanomorphology of acid-cleaned frustules	dead	67
	nanomorphology	dead	61, 62