Supplementary Materials: MorphoCluster: Efficient Annotation of Plankton images by Clustering

Simon-Martin Schröder 1,2, Rainer Kiko 2,3 and Reinhard Koch 1,2

1. Label supercategories

This list accompanies Figure 6 and shows all labels contained in the colored supercategories.

- **artefact** (23, darkgray): artefact, artefact/badfocus, artefact/badfocus/badfocus_to_aggregate,
- artefact/badfocus/badfocus_to_oversegmented, artefact/badfocus/badfocus_to_oversegmented,
- artefact/badfocus/shrimp-badfocus_to_oversegmented, artefact/bubbles/bubbles-hexagonal,
- artefact/bubbles/bubbles-hexagonal_to_badfocus, artefact/bubbles/bubbles-two-halfmoons,
- artefact/cut/cut-aggregates-jellies, artefact/cut/cut-aggregates-turbid, artefact/cut/cut-fibers_to_turbid,
- artefact/cut/cut-jellies, artefact/cut/cut-jellies-quadratic, artefact/cut/cut-tentacles,
- artefact/cut/tentacles-large-aggregates-cut, artefact/seafloor, artefact/turbd, artefact/turbd/turbd-fuzzy,
- artefact/turbd/turbd-w-objects
- **detritus/acantharia-remains_to_fiber** (1, darkgoldenrod): detritus/acantharia-remains_to_fiber
- detritus/aggregate (59, peru): detritus/aggregate/aggregate-angled-grey, detritus/aggregate/aggregate-angled-grey_to_crustacea,
- detritus/aggregate/aggregate-ball-dark, detritus/aggregate/aggregate-ball-fluffy-grey,
- detritus/aggregate/aggregate-balls-grey_to_aggregate-fluffy-grey, detritus/aggregate/aggregate-compact-fluffy-dark,
- detritus/aggregate/aggregate-compact-fluffy-grey, detritus/aggregate/aggregate-compact-fluffy_to_feces,
- detritus/aggregate/aggregate-compact-grey, detritus/aggregate/aggregate-compact-grey_to_rhizaria,
- detritus/aggregate/aggregate-compact-large-grey, detritus/aggregate/aggregate-compact-small-grey,
- detritus/aggregate/aggregate-compact-fluffy-grey, detritus/aggregate/aggregate-fluff-dark-edges,
- detritus/aggregate/aggregate-fluffy-grey, detritus/aggregate/aggregate-fluffy-large-compact-maybe-from-appendicularia,
- detritus/aggregate/aggregate-fluffy-light, detritus/aggregate/aggregate-fluffy-light-w-floata,
- detritus/aggregate/aggregate-fluffy-lightgrey, detritus/aggregate/aggregate-fluffy-lightgrey_to_feces,
- detritus/aggregate/aggregate-fluffy-loose_fiber_to_oversegmented, detritus/aggregate/aggregate-fluffy-loose-grey,
- detritus/aggregate/aggregate-fluffy-loose-grey_to_fibre, detritus/aggregate/aggregate-fluffy-loose-lightgrey,
- detritus/aggregate/aggregate-fluffy-sinker_to_fiber-bundle, detritus/aggregate/aggregate-fluffy-very-faint_to_badfocus,
- detritus/aggregate/aggregate-fluffy-w-many-dark-spots, detritus/aggregate/aggregate-fluffy-w-two-dots,
- detritus/aggregate/aggregate-large-ball_to_globe, detritus/aggregate/aggregate-large-fluffy-and-appendicularia,
- detritus/aggregate/aggregate-large-marine-snow-w-black-parts_to_cut, detritus/aggregate/aggregate-long-fluffy-dark_to_fiber,
- detritus/aggregate/aggregate-rings-small-dark, detritus/aggregate/aggregate-sinker-large-fluffy,
- detritus/aggregate/aggregate-small-feathery_to_compact, detritus/aggregate/aggregate-small-fibers-grey_to_compact,
- detritus/aggregate/aggregate-small-greyc, detritus/aggregate/aggregate-thorny-grey,
- detritus/aggregate/aggregate-thorny-grey_to_crustacea, detritus/aggregate/aggregate-very-fluffy-grey,
- detritus/aggregate/aggregate-very-fluffy-grey_to_fiber, detritus/aggregate/aggregate-very-fluffy-grey_to_fiber,
- detritus/aggregate/aggregate-very-long-fluffy, detritus/aggregate/aggregate-very-long-w-cut-tentacles,
- detritus/aggregate/aggregate-very-long-grey, detritus/aggregate/aggregate-very-long-w-dark-spots,
- detritus/aggregate/aggregate_dark_thorny_to_fiber, detritus/aggregate/aggregate_crustacea-decaying,
- detritus/aggregate/aggregate_to_solitary-black, detritus/aggregate/aggregate-fluffy-grey,
- detritus/aggregate/aggregate_jelly-like-remains-and-dark-spots, detritus/aggregate/small-aggregates-mixed-wcompact,
- detritus/aggregate/very-fluffy-possibly-discarded-appendicularia-houses
- **detritus/compact** (21, sienna): detritus/compact/compact-almond-grey_to_bubble, detritus/compact/compact-angled-dark,
- detritus/compact/compact-angled-dark_to_small-crustacea, detritus/compact/compact-dark,
- detritus/compact/compact-dark-thorny, detritus/compact/compact-dark-twins_to_bubble-stars,
- detritus/compact/compact-dark-to-aggregate-dark-fluffy, detritus/compact/compact-dark-to_crustacea,
- detritus/compact/compact-doubles-w-fluffy-surrounds, detritus/compact/compact-grey,
- detritus/compact/compact-grey-egg-form, detritus/compact/compact-grey-slightly-fluffy,
- detritus/compact/compact-grey-w-small-jellies_to_aggregate, detritus/compact/compact-light-grey_to_globe,
- detritus/compact/compact-round-black_to_solitary-black, detritus/compact/compact-small-dark_to_crustacea,
- detritus/compact/compact-round-black_to_solitary-black, detritus/compact/compact-small-round-grey_to_solitary-black,
- detritus/compact/compact-thorny-dark_to_small-crustacea, detritus/compact/compact-w-fluffy-surrounds,
- detritus/compact/compact-dark-thorny_to_crustacea_small
- **detritus/crustacea-parts** (1, maroon): detritus/crustacea-parts
- **detritus/feces** (9, saddlebrown): detritus/feces/feces-bended-lengthy, detritus/feces/feces-dark-straight_to_trichodesmium-tuft,
null
**detritus_compact** (3): aggregate/aggregate-fluff-dark-edges, compact/compact-dark,
compact/compact-small-dark_to_crustacea
temporary_001 (3): fiber/fiber-loops, rhizaria/almond-eye, unknown/half-moon-w-dot
Hydrozoa_Cnidaria (4): aggregate/aggregate-very-fluffy, cnidaria/fringed-jellies-dot, cnidaria/jellies-w-cross,

**Retaria_Foraminifera** (4): cut/cut-tentacles, foraminifera/foraminifera-tight, foraminifera/foraminifera_to_foraminifera-cut, rhizaria/foraminifera_to_spiky

**Metaoa_Chaetognatha** (5): metaoa/chaetognatha, fiber/fiber-fluffy-grey, fiber/fiber-thin_to_chaetognatha,
metaoa/chaetognatha_to_badfocus, mix/fiber_tentacles

**Mollusca_Veliger** (5): mollusca/veliger, aggregate/aggregate-to_solitary-black, aggregate/small-aggregates-mixed-dark-com pact,
detritus/rhizaria-remains_to_aggregate_small-fluff, veliger/veliger-straight-arms

Oligostraca_Ostracoda (5): crustacea/ostracoda, aggregate/aggregate-angled-grey, compact/compact-dark-thorny,
copepoda/copepoda-side-view_to_detritus-compact-grey, mix/mix-of-different-grey-items

**Retaria_Acantharea** (5): rhizaria/arantha, aggregate/aggregate-compact-large-grey, fiber/fiber_to_solitary-black,
rhizaria/arantha_to_spiky, tuft/tuft-grey-irregular

detritus_ovoid (5): aggregate/aggregate-compact-grey, aggregate/aggregate-rings-small-dark,
compact/compact-grey-egg-form, compact/compact-grey-slightly-fluffy, unknown/eye-slit

**fiber_fluffy** (5): aggregate/aggregate-fluffy-fiber_to_feces, aggregate/aggregate-fluffy-fiber-to-two-dots,
aggregate/aggregate-very-loose-w-dark-spots, fiber/fiber-fluffy-fiber-w-dark-spots,
unknown/appendicularia_body_to_harparcticoid

**fluffy_light** (5): aggregate/aggregate-fluffy-fiber_to_fiber, aggregate/aggregate-fluffy-fiber_to_fluffy_fiber,
aggregate/aggregate-fluffy-fiber_to_fiber-fluffy, mix/detritus_to_crustacea, unknown/ovoid-w-dot

temporary_011 (5): aggregate/aggregate-fluffy-fiber-dark, aggregate/aggregate-fiber-fluffy-grey, aggregate/aggregate-fiber-fluffy-grey

globule/globule_to_badfocus, globule/globule_to_sphere-thorn, globule/small-globe

**Trichodesmum_Tuff** (6): feces/feces-small-fluffy, feces/feces-to-protoplasm, feces/feces-to_badfocus, globule/globule_to_badfocus, globule/globule_to_sphere-thorn, globule/small-globe

artefact_badfocus (8): artefact/fiber, artefact/fiber_to_fiber, artefact/fiber_to_fiber-bundle


not-living_feces (8): aggregate/aggregate-compact-fuffy, aggregate/aggregate-compact-grey_to_fiber, aggregate/aggregate-fluffy-red, aggregate/aggregate-fiber-large-long-fluffy

Phaeodaria_Antennula (9): aggregate/aggregate-fluffy-fiber_to_fiber, aggregate/aggregate-fluffy-fiber_to_fiber

**not-living_feces** (8): aggregate/aggregate-compact-fuffy, aggregate/aggregate-compact-grey_to_fiber

**artefact_fibre** (10): cut/cut-fibers_to_turbid, aggregate/aggregate-fluffy-fiber_to_fiber

Detritus_fiber (10): cut/cut-fibers_to_turbid, aggregate/aggregate-fluffy-fiber_to_fiber

**artefact_fibre** (10): cut/cut-fibers_to_turbid, aggregate/aggregate-fluffy-fiber_to_fiber

**Detritus_fiber** (10): cut/fiber_to_turbid, aggregate/aggregate-fluffy-fiber-to_medium-fluff, aggregate/aggregate-fluffy-fiber-to_short-fluff, aggregate/aggregate-fluffy-fiber-to_tuft

**Detritus_fiber** (10): cut/fiber_to_turbid, aggregate/aggregate-fluffy-fiber-to_medium-fluff, aggregate/aggregate-fluffy-fiber-to_short-fluff, aggregate/aggregate-fluffy-fiber-to_tuft

**Detritus_fiber** (10): cut/cut-fibers_to_turbid, aggregate/aggregate-fluffy-fiber_to_tuft

