

**Leaf breakdown in a natural open tropical stream**

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**Supplementary Tab. 1.** Invertebrate associated with litter of *Baccharis platypoda* incubated in Geraldinho stream during the decomposition process (average value ± standard error).

Taxon	GTF	Days						
		3	7	15	21	30	60	90
Annelida								
Oligochaeta	CG	0±0	0±0	0±0	0±0	0±0	0±0	0±0
Arthropoda								
Arachnida								
Acarina	Pr	0±0	0±0	0.5±0.3	0±0	0.2±0.2	0±0	0±0
Branchiopoda	CF	0.7±0.7	0±0	0±0	0.2±0.2	1.5±0.9	0±0	0.3±0.3
Insecta								
Ephemeroptera								
Baetidae	CG	0±0	0.4±0.2	12.2±3.9	4.8±1.4	4.2±2.0	0±0	0±0
Odonata								
Coenagrionidae	Pr	0±0	0±0	0.5±0.3	0.4±0.3	0±0	0.3±0.3	0±0
Coleoptera								
Dytiscidae	Pr	0.2±0.2	0±0	0±0	0±0	0±0	0±0	0±0
Elmidae	CG/ Sc	0±0	0±0	0.2±0.2	0±0	0±0	0±0	0±0
Hydrophilidae	Pr	0±0	0±0	0±0	0±0	0±0	0±0	0.2±0.2
Hydroscaphidae	Sc	0±0	0.3±0.3	0±0	0.5±0.5	0.2±0.2	2.5±1.0	7.2±3.1
Trichoptera								
Helicopsychidae	Sc	0±0	0±0	0±0	0.2±0.2	0±0	0±0	0±0
Hydroptilidae	Sc	0.2±0.2	1.0±0.4	0.8±0.5	0.5±0.3	0.2±0.2	0.2±0.2	0.3±0.3
Leptoceridae	CF/Sh/Pr	0±0	0.2±0.2	0±0	0±0	0±0	0±0	0±0
Diptera								
Ceratopogonidae	CG/Pr	0±0	0±0	0±0	0±0	0±0	0.5±0.5	0±0
Chironomidae	*	1.7±1.1	6.0±2.9	7.3±5.1	6.6±1.9	2.9±1.3	23.4±8.9	41.7±8.9
								36.0±5.1

CG, collector-gatherer; CF, collector-filterer; Pr, predator; Sh, shredder; Sc, scrapper; \*not classified in trophic groups.

**Supplementary Tab. 2.** Invertebrate associated with litter of *Coccoloba cereifera* incubated in Geraldinho stream during the decomposition process (average value ± standard error).

Taxon	GTF	Days							
		3	7	15	21	30	60	90	
Annelida									
Oligochaeta	CG	0±0	0±0	0±0	0±0	0±0	0.1±0.1	0.1±0.1	0.4±0.2
Arthropoda									
Branchiopoda	CF	0.1±0.1	0.2±0.2	0±0	0±0	0.1±0.1	0.1±0.1	0±0	0±0
Insecta									
Ephemeroptera									
Baetidae	CG	0.2±0.1	0.9±0.4	4.2±2.1	4.0±2.0	4.4±2.2	0.5±0.5	0.1±0.1	0.2±0.1
Leptohyphidae	CG	0±0	0.1±0.1	0±0	0±0	0±0	0±0	0±0	0±0
Leptophlebiidae	CG	0±0	0.1±0.1	0±0	0±0	0±0	0±0	0±0	0±0
Odonata									
Coenagrionidae	Pr	0±0	0±0	0.1±0.1	0.1±0.1	0±0	0.2±0.2	0±0	0±0
Coleoptera									
Hydroscaphidae	Sc	0±0	0±0	0±0	0±0	0±0	1.3±0.3	0.1±0.1	2.6±0.7
Trichoptera									
Hydroptilidae	Sc	0.3±0.2	0.2±0.2	0.5±0.3	0.1±0.1	0.2±0.2	0.2±0.1	0.1±0.1	0±0
Leptoceridae	CF/ShPr	0.1±0.1	0±0	0±0	0±0	0±0	0±0	0±0	0±0
Odontoceridae	Sc	0±0	0±0	0±0	0±0	0±0	0.1±0.1	0±0	0±0
Diptera									
Ceratopogonidae	CG/Pr	0±0	0±0	0±0	0±0	0±0	0±0	0±0	0.3±0.1
Chironomidae	*	0.6±0.3	1.6±0.8	2.2±0.9	2.2±0.7	4.9±2.9	9.3±2.3	5.2±1.6	16.1±4.8

CG, collector-gatherer; CF, collector-filterer; Pr, predator; Sh, shredder; Sc, scrapper; \*not classified in trophic groups.