

The following supplement accompanies the article

Coupling between macrofauna community structure and beach type: a deconstructive meta-analysis

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Table S1. Summary information on sandy beach surveys (n = 63) identified from the literature review for 2 warm temperate southeast coast of South America (WTSA) ecoregions. SB: Southeastern Brazil, RG: Rio Grande. W–S: winter–summer. Values of total sampling effort per sampling event were approximated from the reference sources. In cases when 2 or more beaches were sampled, variability in sampling effort among beaches reflects the area of the beach (from the supralittoral to the lower level of the swash zone) available for sampling. The same holds true when more than one sampling event were conducted

Region	Country	No. of beaches surveyed	Sampling events per beach	Total sampling effort (m ²) per beach & sampling event	Total no. of species collected	Source
SB	Brazil	3	2 (W–S)	0.8	7–9	Veloso & Cardoso (2001)
SB	Brazil	15	2 (W–S)	4.0	7–9	Veloso et al. (2003)
SB	Brazil	1 ^a	2 (W–S)	4.0	8	Ramalho-Fernandes & Soares-Gomes (2006)
SB	Brazil	10	1	3.3–4.5	10–27	Soares (2003)
SB	Brazil	1	14	2.4	17	Souza (1998)
SB	Brazil	7 ^b	1	1.4–1.8	8–16	Borzzone et al. (1996)
SB	Brazil	1	13	4.2	35	Souza & Gianuca (1995)
SB	Brazil	2	9	1.1–2.3 ^c	6–16	Alves & Pezzuto (2009a, b)
SB	Brazil	1	24	2.4	10	Veloso et al. (1997)
SB	Brazil	1	12	1.6 ^d	17 ^d	Borzzone & Souza (1997)
SB	Brazil	1	2 (W–S)	1.8	15	Lepka (2008)
RG	Brazil	2	12	1.1	33–35	Silva et al. (2008)
RG	Brazil	1	3	1.1	5	Calliari et al. (1996)
RG	Brazil	3	5	1.1	17–21	Neves & Bemvenuti (2006, 2009)
RG	Brazil	1	1	5	26	Gianuca (1983, 1985)
RG	Uruguay	4	1	1.7–4.0	4–17	Defeo et al. (1992)
RG	Uruguay	1	12	3.6	23	Brazeiro & Defeo (1996)
RG	Uruguay	8	11	3.0–4.2	11–29	Lercari & Defeo (2006)

^aOnly Costa Azul beach was considered

^bOnly 7 from a total of 10 beaches were considered in the analysis, which was restricted to the intertidal level, avoiding information from the truly sublittoral fringe

^c10 quadrats of 2.25 m² were randomly taken at each station for counting *Ocypode quadrata* burrows (Alves & Pezzuto 2009a)

^dOnly the intertidal zone was considered

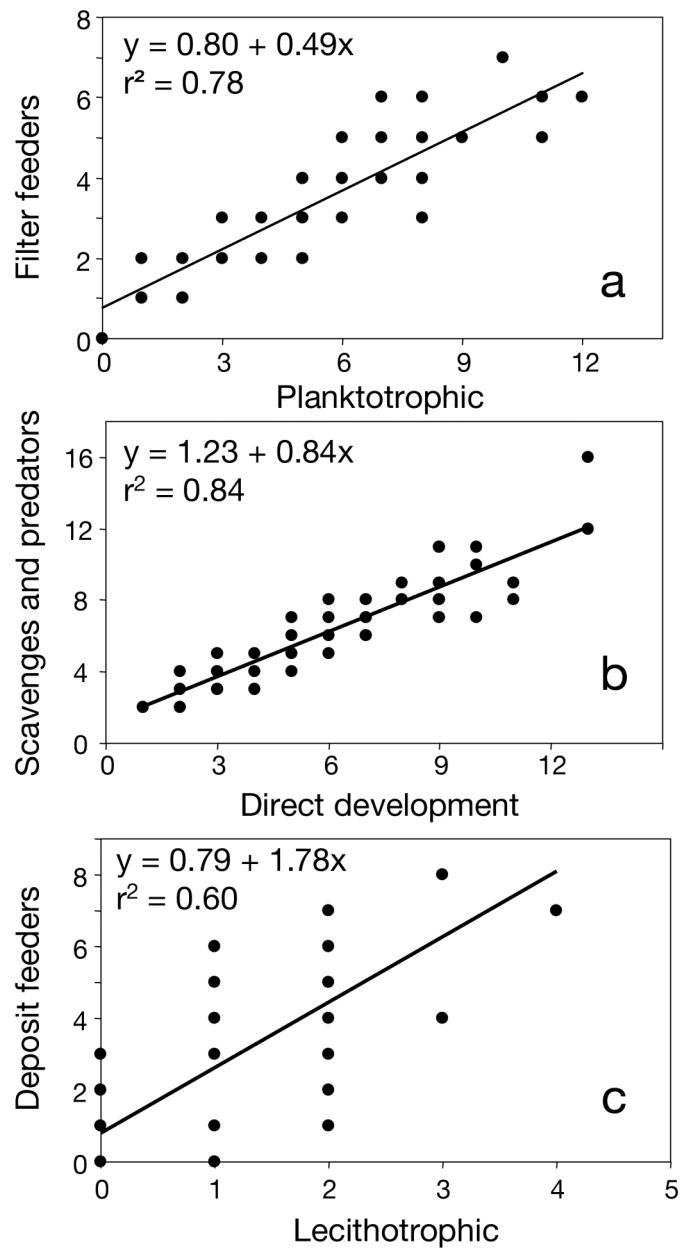


Fig. S1. Strongest cross-correlations ($p < 0.001$) of species richness found between macrofaunal feeding guilds and developmental modes for sandy beaches located in Southeastern Brazil and Rio Grande ecoregions: (a) filter feeders against species with planktotrophic larvae, (b) scavengers and predators against species with direct development, and (c) deposit feeders against species with lecithotrophic larvae. Virtually all filter feeders have planktonic larvae, whereas almost all scavengers and predators have direct development, implying a coupling between dispersal modes and feeding groups

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