Supplement of

Feeding strategies differentiate four detritivorous curimatids in the Amazon

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Tables

Table S1. Alimentary Index (IAi) (%) of four species of Curimatidae. Detritus = degraded organic matter; Vegetal = fragments of plant material; Microcrustaceans = ostracods and snails; Microalgae = chlorophytes and cyanophytes; Zooplankton = cladocerans and copepods.

|          | Detritus | Vegetal | Microcrustaceans | Microalgae | Thecamoebians | Zooplankton |
|----------|----------|---------|-----------------|------------|---------------|-------------|
| *P. latior* | 99.87    |         |                 |            |               | 0.13        |
| *P. altamazonica* | 99.97    |         |                 |            |               | 0.03        |
| *P. rutiloides* | 99.45    | 0.002   | 0.051           | 0.006      | 0.001         | 0.49        |
| *P. amazonica* | 100      |         |                 |            |               |             |

Table S2. Percentage variation explained by the canonical axes (CVA) and the loadings for the size-corrected morphological traits. Explained proportion and significance values of each variable were tested on the first two CA axes using the envfit parametric test. Bold values indicate the more weighed variables in the first axis.

| Trait                           | CA1  | CA2  | r²   | p    |
|---------------------------------|------|------|------|------|
| Intestine Weight (IW)           | 0.18 | -0.98| 0.88 | 0.001|
| Intestine Length (IL)           | 0.83 | -0.56| 0.87 | 0.001|
| Total Length (TL)               | -0.75| 0.67 | 0.10 | 0.001|
| Total Weight (TW)               | 0.95 | 0.32 | 0.57 | 0.001|
| Somatic Digestive Index (DSI)   | -0.13| -0.99| 0.98 | 0.001|
| Explained variation (%)         | 88.9 | 7.4  |      |      |
Figures

*Potamorhina latior*

*Potamorhina altamazonica*

*Psectrogaster rutiloides*

*Psectrogaster amazonica*

**Figure S1.** Stomach content of *Potamorhina latior, Potamorhina altamazonica, Psectrogaster rutiloides* and *Psectrogaster amazonica*. Images made with stereomicroscope Leica S9i.
Figure S2. Images of the digestive tract of *Potamorhina latior* (81mm) and *Potamorhina altamazonica* (175mm). **A:** General view of the celom cavity indicating the position of the digestive tract. **B:** Digestive tract indicating stomach and long coiled intestine. **C:** Small, elongated stomach, of the fundic type with pyloric (p), fundic (f) and cardiac (c) regions, and esophagus.
Figure S3. Images of the digestive tract of *Psectrogaster rutiloides* (129 mm) and *Psectrogaster amazonica* (143 mm). **A:** General view of the celom cavity indicating the position of the digestive tract. **B:** Digestive tract indicating stomach and long coiled intestine. **C:** Small, rounded stomach, of the fundic type with pyloric (p), fundic (f) and cardiac (c) regions and esophagus.