README:

*Supplementary Data for Collins et al “Hinge and ecomorphology of Legumen Conrad, 1858 (Bivalvia, Veneridae), and the contraction of venerid morphospace following the end-Cretaceous extinction”*

This dataset is a compilation of information from the literature and from micro-CT scans of specimens of Recent and fossil bivalves. The following variables are included:

biv3d\_spcmid: If the specimen was CT scanned for the *biv3d* project, the associated project specimen ID is recorded here

biv3d\_meshid: If the specimen was CT scanned for the *biv3d* project, the associated project ID for the mesh file that the measurements herein were taken from is recorded here

museum: The museum the specimen is housed in. This is not always known for measurements taken from the historical literature.

catalogid: The catalog ID of the specimen. As with museumid, this is not always known for specimen data taken from the literature.

valid\_family: The taxonomic family that the specimen belongs to. Only three families are used in this study.

subfamily\_use: The subfamilial placement of the specimen. The subfamilial division of the Veneridae, and the validity of using subfamilies at all, is in flux at the time of writing. We largely follow Huber (2010, 2015) with amendments from papers by Kappner, Bieler, Alvarez, and del Rio (see reference list in main text).

valid\_genus. valid\_species, valid\_authority: The valid taxonomic name of the specimen as of September, 2019.

PC1\_shape, PC2\_shape: For specimens that were CT scanned, the first two PCA scores that describe the bulk of the whole-shell shape variance.

PC1\_hinge, PC2\_hinge: For specimens that were CT scanned, the first two PCA scores that describe the bulk of the hinge-configuration shape variance.

Valveid: Whether or not the specimen is a left or right valve, if known (not always recorded in the literature).

Age: The geological age of the specimen.

Notes: If any additional information is known about the specimen, its occurrence, or taxonomy, it is recorded here.

length\_mm, height\_mm: Length and height of specimen in mm, either from a CT scanned specimen or from the literature.

size\_refs: The reference from which the length and height measurements are taken: most often the published literature, sometimes a scanned specimen.