

Supplementary Material 1. Currently recognized stromboidean genera (MolluscaBase, 2023), with their type species, arranged by family (MolluscaBase, 2023). Mode of designation of type species: OD = original designation; M = monotypy; SD = subsequent designation; AT = absolute tautonymy; TRN, typification of replaced name. Asterisks (*) mark taxa that are not represented in the phylogeny.

Family	Genus	Type species
Aporrhaidae	<i>Aporrhais</i> da Costa, 1778	<i>Aporrhais quadrifidus</i> da Costa, 1778 (M) [= <i>Aporrhais pespelecani</i> (Linnaeus, 1758)]
Gray, 1850	<i>Arrhoges</i> Gabb, 1868 *	<i>Rostellaria occidentalis</i> H. Beck, 1836 * (M)
Rostellariidae	<i>Rimelopsis</i> Lambiotte, 1979	<i>Rostellaria powisii</i> Petit de la Saussaye, 1840 (OD)
Gabb, 1868	<i>Rostellariella</i> Thiele, 1929	<i>Rostellaria delicatula</i> G. Nevill, 1881 (OD)
	<i>Tenuitibia</i> Dekkers, 2020	<i>Gladius martinii</i> Marrat, 1877 (OD)
	<i>Tibia</i> Röding, 1798	<i>Murex fusus</i> Linnaeus, 1758 (SD)
	<i>Varicospira</i> Eames, 1952	<i>Strombus cancellatus</i> Lamarck, 1816 (OD)
Seraphsidae	<i>Terebellum</i> Bruguière, 1798	<i>Conus terebellum</i> Linnaeus, 1758 (subsequent M)
Gray, 1853		
Strombidae	<i>Aliger</i> Thiele, 1929	<i>Strombus gallus</i> Linnaeus, 1758 (OD)
Rafinesque, 1815	<i>Barneystrombus</i> Blackwood, 2009	<i>Strombus kleckhamae</i> Cernohorsky, 1971 (OD)
	<i>Canarium</i> Schumacher, 1817	<i>Canarium ustulatum</i> Schumacher, 1817 (M) [= <i>Canarium urceus</i> (Linnaeus, 1758) *]
	<i>Conomurex</i> P. Fischer, 1884	<i>Strombus luhuanus</i> Linnaeus, 1758 (M)
	<i>Dolomena</i> Wenz, 1940	<i>Strombus pulchellus</i> Reeve, 1851 (OD)
	<i>Doxander</i> Wenz, 1940	<i>Strombus vittatus</i> Linnaeus, 1758 (OD)
	<i>Euprotomus</i> Gill, 1870	<i>Strombus aurisdianae</i> Linnaeus, 1758 (M)
	<i>Fusistrombus</i> Bandel, 2007	<i>Strombus fusiformis</i> G. B. Sowerby II, 1842 (OD)
	<i>Gibberulus</i> Jousseaume, 1888	<i>Strombus gibberulus</i> Linnaeus, 1758 (M)

<i>Harpago</i> Mörch, 1852	<i>Lambis harpago</i> Röding, 1798 (AT)
<i>Hawaiistrombus</i> Bandel, 2007	<i>Strombus hellii</i> Kiener, 1843 (OD) *
<i>Labiostrombus</i> Oostingh, 1925	<i>Strombus epidromis</i> Linnaeus, 1758 (TRN) [<i>Gallinula</i> Mörch, 1852, non Brisson, 1760]
<i>Laevistrombus</i> Abbott, 1960	<i>Strombus canarium</i> Linnaeus, 1758 (OD) *
<i>Lambis</i> Röding, 1798	<i>Strombus lambis</i> Linnaeus, 1758 (AT)
<i>Latissistrombus</i> Bandel, 2007	<i>Strombus taurus</i> Reeve, 1857 (OD)
<i>Lentigo</i> Jousseaume, 1886	<i>Strombus lentiginosus</i> Linnaeus, 1758 (M)
<i>Lobatus</i> [Swainson], 1837	<i>Strombus bituberculatus</i> Lamarck, 1822 (M)
<i>Macrostrombus</i> Petuch, 1994	<i>Strombus costatus</i> Gmelin, 1791 (OD)
<i>Maculastrombus</i> Liverani, Dekkers & S. J. Maxwell, 2021	<i>Strombus maculatus</i> G. B. Sowerby II, 1842 (OD)
<i>Ministrombus</i> Bandel, 2007	<i>Strombus minimus</i> Linnaeus, 1771 (OD)
<i>Mirabilistrombus</i> Kronenberg, 1998 *	<i>Strombus listeri</i> T. Gray, 1852 (OD) *
<i>Neodilatilabrum</i> Dekkers, 2008	<i>Strombus marginatus</i> Linnaeus, 1758 (OD) *
<i>Ophioglossolambis</i> Dekkers, 2012	<i>Strombus digitatus</i> Perry, 1811 (OD)
<i>Persististrombus</i> Kronenberg & H. G. Lee, 2007	<i>Strombus granulatus</i> Swainson, 1822 (OD)
<i>Strombus</i> Linnaeus, 1758	<i>Strombus pugilis</i> Linnaeus, 1758 (SD)
<i>Terestrombus</i> Kronenberg & Vermeij, 2002	<i>Lambis fragilis</i> Röding, 1798 (OD)
<i>Thersistrombus</i> Bandel, 2007	<i>Strombus thersites</i> Swainson, 1823 (OD)
<i>Thetystrombus</i> Dekkers, 2008	<i>Strombus latus</i> Gmelin, 1791 (OD)
<i>Titanostrombus</i> Petuch, 1994	<i>Strombus goliath</i> Schröter, 1805 (OD) *
<i>Tricornis</i> Jousseaume, 1886	<i>Strombus tricornis</i> [Lightfoot], 1786 (M)
<i>Pelicaria</i> Gray, 1857	<i>Buccinum vermis</i> Martyn, 1784 (M)

Struthiolariidae	<i>Perissodonta</i> E. von Martens, 1878 *	<i>Struthiolaria mirabilis</i> E. A. Smith, 1875 SD) *
Gabb, 1868	<i>Struthiolaria</i> Lamarck, 1816	<i>Struthiolaria nodulosa</i> Lamarck, 1816 (M) [= <i>Struthiolaria papulosa</i> (Martyn, 1784)]
	<i>Tylospira</i> G. F. Harris, 1897 *	<i>Tylospira scutulata</i> (Gmelin, 1791) (M) *
Xenophoridae	<i>Aspidophoreas</i> Nappo, Bini & Santucci, 2022	<i>Trochus chinensis</i> R. A. Philippi, 1841 (OD)
Troschel, 1852	<i>Onustus</i> Swainson, 1840	<i>Trochus indicus</i> Gmelin, 1791 (OD)
(1840)	<i>Ponderiana</i> Nappo, Bini & Santucci, 2022 *	<i>Xenophora digitata</i> E. von Martens, 1878 (OD) *
	<i>Stellaria</i> Möller, 1832	<i>Trochus solaris</i> Linnaeus, 1764 (M)
	<i>Xenophora</i> Fischer von Waldheim, 1807	<i>Xenophora laevigata</i> Fischer von Waldheim, 1807 (SD) [= <i>Xenophora conchyliophora</i> (Born, 1780)]