

Synopsis of the Genera of Stylosphærida.

I. Subfamily Xiphostylida. (Spherical shell simple.)	Polar spines free, without connecting ring on the distal ends.	Both spines equal, 45. <i>Xiphosphæra</i> .	
		Spines different in size or form, 46. <i>Xiphostylus</i> .	
	Both polar spines united by a circular or elliptical ring,	47. <i>Saturnalis</i> .	
II. Subfamily Sphærostylida. (Two concentric spheres.)	Polar spines free.	Both spines equal, 48. <i>Stylosphæra</i> .	
		Spines different in size or form, 49. <i>Sphærostylus</i> .	
	Both polar spines united by a circular or elliptical ring,	50. <i>Saturnulus</i> .	
III. Subfamily Amphistylida. (Three concentric spheres.)	Polar spines free.	Both spines equal, 51. <i>Amphisphæra</i> .	
		Spines different in size or form, 52. <i>Amphistylus</i> .	
	Both polar spines united by a circular or elliptical ring,	53. <i>Saturninus</i> .	
IV. Subfamily Cromyostylida. (Four concentric spheres.)	Polar spines free.	Both spines equal, 54. <i>Stylocromyum</i> .	
		Spines different, 55. <i>Cromyostylus</i> .	
V. Subfamily Caryostylida. (Five or more concentric spheres.)	Polar spines free.	Both spines equal, 56. <i>Caryostylus</i> .	
VI. Subfamily Spongostylida. (Spherical shell partially or wholly of a spongy structure.)	Shell a solid spongy sphere without central medullary shell,	57. <i>Spongolonche</i> .	
	In the centre of the spongy sphere one or two medullary shells.	One central medullary shell,	58. <i>Spongostylus</i> .
		Two concentric medullary shells,	59. <i>Spongostylidium</i> .

Subfamily XIPHOSTYLIDA, Haeckel, 1881, Prodrömus, pp. 449, 450.

Definition.—Stylosphærida with one simple spherical lattice-shell.

Genus 45. *Xiphosphæra*,¹ Haeckel 1881, Prodrömus, p. 450.

Definition.—Stylosphærida with one single lattice-sphere and two free spines of equal size and form.

The genus *Xiphosphæra* is the most simple form of all Stylosphærida, and may be regarded as the common ancestral form of this family. On the surface of a simple

¹ *Xiphosphæra* = Sword-sphere; ἔλφος, σφαίρα.