

Ophiuroid Family Identification key (OFID)

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OFID: Ophiuroidea Family IDentification key, Generated by IKey+, Laboratoire Informatique et Systematique, UMR 7205, MNHN Paris

1 scales on ventral interradii <covering- from disc edge> :

- covering the whole area of an interradius => 2
- covering half/less than half of an interradius => Clarkcomidae
- absent => 3

2 arm spines <similarity> :

- all similar in shape => 4
- not all similar in shape => 5

3 longest arm spines <relative length> :

- shorter than half a segment => 6
- between half and one segment => 7
- between one and two segments => 8
- longer than two segments => 9

4 number of scales on H line of an interradius <the interradius is assumed as a triangle and H gives its height> :

- less than 7 => 10
- 7-14 => 11
- 14-21 => 12
- more than 21 => 13

5 tentacle scales <absence/presence> :

- present => 14
- absent => Ophioscolecidae

6 tentacle scales <absence/presence> :

- present => 15
- absent => Asteronychidae

7 tentacle scales <absence/presence> :

- present => 16
- absent => Ophiobryidae

8 arm spines <similarity> :

- all similar in shape => 17
- not all similar in shape => 18

9 radial shield <length> :

- length less than one third of the disc radius => Ophiomyxidae
- length between one third and half of the disc radius => Ophiocamaciidae
- length more than half of the disc radius => 19

10 tentacle scales <absence/presence> :

- present => 20
- absent => Ophiuridae

11 tentacle scales <absence/presence> :

present => 21
absent => Ophiuridae

12 radial shield <absence/presence> :
present => 22
absent => Ophioscolecidae

13 adoral shield <separated or meeting in front of oral shield> :
separated => Ophiocomidae
meeting in front of the oral shield => 23

14 number of scales on H line of an interradius <the interradius is assumed as a triangle and H gives its height> :
less than 7 => Ophiernidae
14-21 => Ophioscolecidae

15 tentacle scales <length> :
nearly as long as wide => 24
slightly longer than wide => 25
more than two times longer than wide => 26

16 tentacle scales <length> :
nearly as long as wide => 27
slightly longer than wide => 28
more than two times longer than wide => Ophiopyrgidae

17 radial shield <absence/presence> :
present => 29
absent => Ophiohelidae

18 adoral shield <separated or meeting in front of oral shield> :
separated => Ophiohelidae
meeting in front of the oral shield => Ophiopholidae

19 radial shield <covering> :
with spines => Ophiotrichidae
with granules => Ophiopteridae

20 tentacle scales <length> :
nearly as long as wide => 30
slightly longer than wide => Ophiuridae
more than two times longer than wide => 31

21 genital papillae <absence/presence> :
present => Ophiuridae
absent => 32

22 tentacle scales <absence/presence> :
present => 33
absent => Amphilepididae

23 ventral interradii <cover> :
without granules/spines => Ophiopsilidae
with granules => Ophiotomidae

24 genital slit <length> :
shorter than half interradius => Euryalidae
longer than half the length of an interradius => Astrophiuridae

25 adoral shield <separated or meeting in front of oral shield> :
separated => 34
meeting in front of the oral shield => 35

26 genital papillae <absence/presence> :
present => Ophiopyrgidae
absent => Ophiomyxidae

27 ventral teeth < the number of oral papillae sensu lato on DP> :

single => *Amphiuridae*
several (tooth papillae) => *Ophioleucidae*

28 genital papillae <absence/presence> :
present => *Ophionereididae*
absent => *Gorgonocephalidae*

29 genital papillae <absence/presence> :
present => *Ophionereididae*
absent => *Amphiuridae*

30 genital papillae <absence/presence> :
present => *Ophiosphalmidae*
absent => *Hemieuryalidae*

31 genital papillae <absence/presence> :
present => *Ophiopyrgidae*
absent => *Ophiomusaidae*

32 integument <skin obscuring plates> :
not obscuring plates => *Ophiothamnidae*
obscuring plates => *Ophiacanthidae*

33 radial shield <length> :
length less than one third of the disc radius => *Ophionereididae*
length between one third and half of the disc radius => 36
length more than half of the disc radius => *Ophiactidae*

34 dorsal disc <cover-spines> :
with spines => *Ophiopezidae*
without spines => *Ophiomyxidae*

35 number of genital slits <1/2 slits per bursa> :
one per bursa => *Ophiolepididae*
two per bursa => *Ophiodermatidae*

36 dorsal disc <cover-spines> :
with spines => *Amphilimnidae*
without spines => *Amphiuridae*