

## On the Family Nannastacidae (Crustacea, Cumacea) from the Australian Museum Collection

IORGU PETRESCU

“Grigore Antipa” National Museum of Natural History,  
Kiseleff 1, Bucharest 011341, Romania  
[iorgup@antipa.ro](mailto:iorgup@antipa.ro)

**ABSTRACT.** 108 species and 10 genera of Nannastacidae were identified in collections of the Australian Museum from samples around Australia; 48 are described as new species: *Campylaspides stanescui*, *Campylaspis adami*, *C. adela*, *C. aureliani*, *C. berentsae*, *C. chisamerai*, *C. cursaruae*, *C. dimitrumurariui*, *C. elenaionuti*, *C. gabrielamircea*, *C. georgetae*, *C. gherasimi*, *C. guerragarciai*, *C. hangiuuae*, *C. heardi*, *C. keablei*, *C. lowryi*, *C. marinescui*, *C. matacheae*, *C. mioarae*, *C. oanae*, *C. oanalexandru*, *C. oneai*, *C. panai*, *C. paucal*, *C. popai*, *C. radui*, *C. roccatagliatai*, *C. sienkiewiczzi*, *C. stanae*, *C. udrescui*, *C. vasilescui*, *C. wilsoni*, *Nannastacus papadopoli*, *Procampylaspis capraruae*, *P. corberai*, *Scherocumella weinbergae*, *Scherocumella wittmanni*, *Schizocuma antipai*, *Schizocuma bacescui*, *Schizotrema dimitriui*, *Schizotrema leswatlingi*, *Schizotrema radui*, *Schizotrema zimmeri*, *Styloptocuma anae*, *Styloptocuma angelae*, *Styloptocuma aurorae*, and *Styloptocuma halei*. An additional taxon is recognized as *Styloptocuma* sp. but remains undescribed. Additionally, two genera—*Campylaspides* Fage, 1929, and *Schizocuma* Băcescu, 1972—and the following 15 species are newly recorded from Australia: *Cumella bunakenensis* Petrescu, 1995, *Cumella indosinica* Zimmer, 1952, *Nannastacus antipai* Petrescu, 1995, *N. gamoi* Băcescu, 1992, *N. mitreai* Petrescu, 1995, *N. nyctagineus* Gamô, 1962, *N. stebbingi deiformis* Fage, 1945, *N. wisseni* Petrescu, 1997, *Procampylaspis andamanensis* Watling & Angsupanich, 2002, *P. bispinosa* Ledoyer, 1988, *Schizotrema bidens* Fage, 1945, *Schizotrema bifrons* Calman, 1911, *Schizotrema depressum* Calman, 1911, *Schizotrema sakaii* Gâmo, 1964, and *Schizotrema sordidum* Calman, 1911.

**KEYWORDS.** Crustacea; Cumacea; Nannastacidae; taxonomy; new species; new records.

PETRESCU, IORGU. 2018. On the family Nannastacidae (Crustacea, Cumacea) from the Australian Museum collection. *Records of the Australian Museum* 70(1): 1–111. <https://doi.org/10.3853/j.2201-4349.70.2018.1645>

## Contents

Introduction .....	4
Material and methods.....	4
Genus <i>Campylaspides</i> Fage, 1929 .....	4
Key to species of <i>Campylaspides</i> from Australian waters.....	4
<i>Campylaspides stanescui</i> sp. nov. ....	4
Genus <i>Campylaspis</i> Sars, 1865.....	5
Key to species of <i>Campylaspis</i> from Australian waters .....	5
<i>Campylaspis adami</i> sp. nov. ....	8
<i>Campylaspis adela</i> sp. nov. ....	8
<i>Campylaspis anae</i> Petrescu, 2006.....	9
<i>Campylaspis angelae</i> Petrescu, 2006.....	9
<i>Campylaspis aspera</i> Hale, 1945.....	9
<i>Campylaspis aureliani</i> sp. nov. ....	9
<i>Campylaspis australiensis</i> Petrescu, 2006.....	10
<i>Campylaspis berentsae</i> sp. nov. ....	10
<i>Campylaspis chisamerai</i> sp. nov. ....	10
<i>Campylaspis cursaru</i> sp. nov. ....	11
<i>Campylaspis dimitrumurariui</i> sp. nov. ....	12
<i>Campylaspis echinata</i> Hale, 1945.....	12
<i>Campylaspis edenensis</i> Petrescu, 2006.....	12
<i>Campylaspis elenaionuti</i> sp. nov. ....	12
<i>Campylaspis gabrielamircea</i> sp. nov. ....	13
<i>Campylaspis georgetae</i> sp. nov. ....	14
<i>Campylaspis gherasimi</i> sp. nov. ....	15
<i>Campylaspis guerragarciai</i> sp. nov. ....	15
<i>Campylaspis hangiuae</i> sp. nov. ....	16
<i>Campylaspis heardi</i> sp. nov. ....	16
<i>Campylaspis johnstoni</i> Hale, 1937.....	17
<i>Campylaspis keablei</i> sp. nov. ....	17
<i>Campylaspis latidactyla</i> Hale, 1945 .....	19
<i>Campylaspis lowryi</i> sp. nov. ....	19
<i>Campylaspis marinescui</i> sp. nov. ....	19
<i>Campylaspis matacheae</i> sp. nov. ....	20
<i>Campylaspis minor</i> Hale, 1945.....	21
<i>Campylaspis mioarae</i> sp. nov. ....	21
<i>Campylaspis nowrae</i> Petrescu, 2006 .....	21
<i>Campylaspis oanae</i> sp. nov. ....	22
<i>Campylaspis oanalexandru</i> sp. nov. ....	22
<i>Campylaspis oneai</i> sp. nov. ....	23
<i>Campylaspis panai</i> sp. nov. ....	23
<i>Campylaspis paucai</i> sp. nov. ....	24
<i>Campylaspis pileus</i> (Foxon, 1932).....	25
<i>Campylaspis popai</i> sp. nov. ....	25
<i>Campylaspis pustulosa</i> Hale, 1945 .....	25
<i>Campylaspis radui</i> sp. nov. ....	25
<i>Campylaspis rectangulata</i> Petrescu, 2006.....	26
<i>Campylaspis roccatagliatai</i> sp. nov. ....	26
<i>Campylaspis roscida</i> Hale, 1945.....	27
<i>Campylaspis sienkiewiczzi</i> sp. nov. ....	27
<i>Campylaspis similis</i> Hale, 1945.....	28
<i>Campylaspis stanae</i> sp. nov. ....	28
<i>Campylaspis tasmaniensis</i> Petrescu, 2006.....	28
<i>Campylaspis thetidis</i> Hale, 1945.....	28
<i>Campylaspis thompsoni</i> Hale, 1945.....	28
<i>Campylaspis trisulcata</i> Petrescu, 2006.....	29
<i>Campylaspis udrescui</i> sp. nov. ....	29
<i>Campylaspis uniplicata</i> Hale, 1945 .....	29
<i>Campylaspis unisulcata</i> Hale, 1945.....	29
<i>Campylaspis vasilescui</i> sp. nov. ....	30
<i>Campylaspis wardi</i> Băcescu, 1992.....	30
<i>Campylaspis wilsoni</i> sp. nov. ....	31
<i>Campylaspis</i> sp. ....	32
Genus <i>Cumella</i> Sars, 1865.....	32
Key to species of <i>Cumella</i> from Australian waters .....	32
Subgenus <i>Cumella</i> Sars, 1865.....	33
<i>Cumella (Cumella) bunakenensis</i> Petrescu, 1995.....	33
<i>Cumella (Cumella) cana</i> Hale, 1945.....	33

Subgenus <i>Cumewingia</i> Băcescu, 1971 .....	33
<i>Cumella (Cumewingia) hispida</i> Calman, 1911 .....	33
<i>Cumella (Cumewingia) indosinica</i> Zimmer, 1952 .....	33
Genus <i>Nannastacus</i> Bate, 1865 .....	35
Key to species of <i>Nannastacus</i> from Australian waters (present study) .....	34
<i>Nannastacus antipai</i> Petrescu, 1995 .....	35
<i>Nannastacus gamoi</i> Băcescu, 1992 .....	35
<i>Nannastacus gibbosus</i> Calman, 1911 .....	35
<i>Nannastacus hansenii</i> Calman, 1905 .....	35
<i>Nannastacus inconstans</i> Hale, 1945 .....	35
<i>Nannastacus inflatus</i> Hale, 1945 .....	36
<i>Nannastacus johnstoni</i> Hale, 1945 .....	37
<i>Nannastacus mitreai</i> Petrescu, 1995 .....	37
<i>Nannastacus nyctagineus</i> Gamô, 1962 .....	37
<i>Nannastacus papadopoli</i> sp. nov. ....	37
<i>Nannastacus stebbingi defformis</i> Fage, 1945 .....	37
<i>Nannastacus subinflatus</i> Hale, 1945 .....	37
<i>Nannastacus wisseni</i> Petrescu, 1997 .....	37
Genus <i>Procampylaspis</i> Bonnier, 1896 .....	38
Key to species of <i>Procampylaspis</i> from Australian waters .....	38
<i>Procampylaspis andamanensis</i> Watling & Angsupanich, 2002 .....	38
<i>Procampylaspis australiensis</i> Petrescu, 2006 .....	38
<i>Procampylaspis bispinosa</i> Ledoyer, 1988 .....	38
<i>Procampylaspis capraruae</i> sp. nov. ....	38
<i>Procampylaspis corberai</i> sp. nov. ....	39
<i>Procampylaspis poorei</i> Petrescu, 2006 .....	39
<i>Procampylaspis sordida</i> Hale, 1945 .....	39
Genus <i>Scherocumella</i> Watling, 1991 .....	40
Key to species of <i>Scherocumella</i> from Australian waters .....	40
<i>Scherocumella clavata</i> (Hale, 1945) .....	40
<i>Scherocumella lima</i> (Hale, 1936) .....	40
<i>Scherocumella nasuta</i> (Zimmer, 1914) .....	40
<i>Scherocumella nichollsi</i> (Hale, 1949) .....	40
<i>Scherocumella sheardi</i> (Hale, 1945) .....	40
<i>Scherocumella vieta</i> (Hale, 1949) .....	41
<i>Scherocumella weinbergae</i> sp. nov. ....	41
<i>Scherocumella wittmanni</i> sp. nov. ....	41
Genus <i>Schizocuma</i> Băcescu, 1972 .....	42
Key to species of <i>Schizocuma</i> from Australian waters .....	42
<i>Schizocuma antipai</i> sp. nov. ....	42
<i>Schizocuma bacescui</i> sp. nov. ....	43
Genus <i>Schizotrema</i> Calman, 1911 .....	44
Key to species of <i>Schizotrema</i> from Australian waters .....	44
<i>Schizotrema aculeatum</i> Hale, 1936 .....	44
<i>Schizotrema bidens</i> Fage, 1945 .....	45
<i>Schizotrema bifrons</i> Calman, 1911 .....	45
<i>Schizotrema depressum</i> Calman, 1911 .....	45
<i>Schizotrema dimitriui</i> sp. nov. ....	45
<i>Schizotrema leopardinum</i> Hale, 1949 .....	45
<i>Schizotrema leswatlingi</i> sp. nov. ....	46
<i>Schizotrema nudum</i> Tafe & Greenwood, 1996 .....	46
<i>Schizotrema radui</i> sp. nov. ....	46
<i>Schizotrema sakaii</i> Gamô, 1964 .....	47
<i>Schizotrema sordidum</i> Calman, 1911 .....	47
<i>Schizotrema zimmeri</i> sp. nov. ....	47
Genus <i>Styloptocuma</i> Băcescu & Muradian, 1974 .....	48
Key to species of <i>Styloptocuma</i> from Australian waters .....	48
<i>Styloptocuma anae</i> sp. nov. ....	48
<i>Styloptocuma angelae</i> sp. nov. ....	49
<i>Styloptocuma aurorae</i> sp. nov. ....	49
<i>Styloptocuma halei</i> sp. nov. ....	50
<i>Styloptocuma</i> sp. ....	50
Genus <i>Vemacumella</i> Petrescu, 2001 .....	51
<i>Vemacumella bacescui</i> Petrescu, 2006 .....	51
Figures 1–58 .....	52
References .....	110
Supplementary data (collection data) .....	111