

FAUNA AQUATICA AUSTRIACA

CILIOPHORA (Ciliates)

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Quotation note

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Austria takes a special status in the international research on ciliates. Wilhelm Foissner, one of the most experienced and productive taxonomists, and his working group made Austria to a hotspot of ciliate-diversity research (Aescht & Berger 2008a, b, Aescht 2008, Berger & Al-Rasheid 2008).

In addition, a natural monument (“Krauthügel”) expressly for ciliated protozoa in the city of Salzburg (Austria) is unique in the world (Foissner et al. 2012, Cotterill et al. 2013). This protected ephemeral pond harbours about 150 ciliate species. Such a conservation status cannot be taken as granted for a group of microorganisms which can be identified only by specialists (Foissner 1993, Foissner & Foissner 1988, Foissner et al. 1991, 1992, 1994, 1995, 1999, Foissner & Berger 1996, Berger et al. 1997, Berger 1999, 2006, 2008, 2011, Aescht 2001, 2008, Blatterer 2002, 2008, Aescht & Berger 2008a, b, Berger & Foissner 2003, Aescht 2012, 2013).

Foissner et al. (1991, 1992, 1994, 1995) are the standard references for the identification and ecological and saprobiological classification of ciliate indicator species (“ciliate-atlas”), while Blatterer (1995, see also ÖNORM M 6118) published a specific saprobic index for ciliates. Unfortunately, the Austrian and European administrations do not support the use of ciliates for water quality assessment since several years and thus no further species have been classified ecologically. In the Austrian guidelines for the saprobiological classification of running waters, the ciliates are only optionally included as additional group for specific issues (Moog et al. 1999). Consequently, only few monitoring programs dealing with ciliates have been realized in recent years (for reviews, see Aescht 2012, 2013) and thus the new edition of the Fauna Aquatica Austriaca contains an updated list of Austrian records, but the chapters dealing with the ecology and saprobiology are identical with previous editions.

The names of the species have been checked carefully. In spite of that, we cannot guarantee that all details are correct. A question mark ahead of a combining author means that this author is uncertain. In *Alinostoma* Jankowski, 1980 (Cyrtophorea) and in two genera of peritrichs (*Pseudocarchesium* Sommer, 1951; *Pallitrichodina* Van As & Basson in Aescht, 2001) important notes on their taxonomy and nomenclature have been made. The classification follows mainly Lynn (2008).

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Species inventory

Subphylum Postciliodesmatophora

Class Karyorelictida

Order Loxodida

Genus *Loxodes* EHRENBERG, 1830

Loxodes magnus STOKES, 1887

Loxodes rostrum (MÜLLER, 1773) EHRENBERG, 1830

Loxodes striatus (ENGELMANN, 1862) PENARD, 1917

Loxodes vorax STOKES, 1884

Class Heterotrichea

Order Heterotrichida

Genus *Blepharisma* PERTY, 1849

Blepharisma bimicronucleatum VILLENEUVE-BRACHON, 1940

Blepharisma elongatum (STOKES, 1884) KAHL, 1926

Blepharisma hyalinum PERTY, 1852

Blepharisma lateritium (EHRENBERG, 1831) STEIN, 1859

Blepharisma ovatum (STOKES, 1884) PENARD, 1922

Blepharisma persicinum PERTY, 1849

Blepharisma steini KAHL, 1932

Blepharisma undulans STEIN, 1867

Genus *Climacostomum* STEIN, 1859

Climacostomum minimum FOISSNER, 1980

Climacostomum patulum (MÜLLER, 1786) KAHL, 1932

Climacostomum virens (EHRENBERG, 1838) STEIN, 1859

Genus *Condylostoma* BORY, 1824

Condylostoma caudatum LAUTERBORN, 1908

Genus *Folliculina* LAMARCK, 1816

Folliculina boltoni KENT, 1881

Genus *Linostomella* AESCHT in FOISSNER, BERGER & SCHAUMBURG, 1999

Linostomella vorticella (EHRENBERG, 1834) AESCHT in FOISSNER, BERGER & SCHAUMBURG, 1999

Genus *Spirostomum* EHRENBERG, 1834

Spirostomum ambiguum (MÜLLER, 1786) EHRENBERG, 1834

Spirostomum caudatum (MÜLLER, 1786) DELPHY, 1939

Spirostomum minus ROUX, 1901

Spirostomum teres CLAPARÈDE & LACHMANN, 1858

Genus *Stentor* OKEN, 1815

Stentor amethystinus LEIDY, 1880

Stentor coeruleus (PALLAS, 1766) EHRENBERG, 1831

Stentor igneus EHRENBERG, 1838

Stentor muelleri EHRENBERG, 1831

Stentor multififormis (MÜLLER, 1786) EHRENBERG, 1838

Stentor niger (MÜLLER, 1773) EHRENBERG, 1831

Stentor pallidus FOISSNER, 1980

Stentor polymorphus (MÜLLER, 1773) EHRENBERG, 1830

Stentor roeselii EHRENBERG, 1835

Subphylum Intramacronucleata

Class Spirotrichea

Subclass Hypotrichia

Genus Chaetospira LACHMANN, 1856

Chaetospira muelleri LACHMANN, 1856

Genus Cladotricha GAJEWSKAJA, 1926

Cladotricha sigmoidea RUINEN, 1938

Genus Deviata EIGNER, 1995

Deviata abbrevescens EIGNER, 1995

Genus Hypotrichidium ILOWAISKY, 1921

Hypotrichidium conicum ILOWAISKY, 1921

Genus Paraholosticha WENZEL, 1953

Paraholosticha herbicola (KAHL, 1932) WENZEL, 1953

Genus Lamtostyla BUITKAMP, 1977

Lamtostyla decorata FOISSNER, AGATHA & BERGER, 2002

Genus Mucotrichidium FOISSNER, OLEKSIV & MÜLLER, 1990

Mucotrichidium hospes (EHRENBERG, 1831) FOISSNER, OLEKSIV & MÜLLER, 1990

Genus Parastrongylidium FLEURY & FRYD-VERSAVEL, 1985

Parastrongylidium oswaldi AESCHT & FOISSNER, 1992

Genus Psilotricha STEIN, 1859

Psilotricha acuminata STEIN, 1859

Psilotricha succisa (MÜLLER, 1786) FOISSNER, 1983

Genus Stichotricha PERTY, 1849

Stichotricha aculeata WRZESNIEWSKI, 1866

Stichotricha secunda PERTY, 1849

Stichotricha socialis GRUBER, 1880

Stichotricha tubicola (GRUBER, 1880) BORROR, 1972

Genus Strongylidium STERKI, 1878

Strongylidium lanceolatum KOWALEWSKI, 1882

Genus Wallackia FOISSNER, 1976

Wallackia schiffmanni FOISSNER, 1976

Family Oxytrichidae

Genus Allotricha STERKI, 1878

Allotricha mollis STERKI, 1878

Genus Australocirrus BLATTERER & FOISSNER, 1988*Australocirrus aspoecki* (FOISSNER, 2004) KUMAR & FOISSNER, 2015**Genus Cyrtohymena** FOISSNER, 1989*Cyrtohymena citrina* (BERGER & FOISSNER, 1987) FOISSNER, 1989**Genus Gastrostyla** ENGELMANN, 1862*Gastrostyla mystacea* (STEIN, 1859) STERKI, 1878*Gastrostyla steinii* ENGELMANN, 1862**Genus Histriculus** CORLISS, 1960*Histriculus complanatus* (STOKES, 1887) CORLISS, 1960*Histriculus histrio* (MÜLLER, 1773) CORLISS, 1960**Genus Kerona** MÜLLER, 1786*Kerona pediculus* (MÜLLER, 1773) BLOCHMANN, 1886**Genus Neokeronopsis** WARREN, FYDA & SONG, 2002*Neokeronopsis spectabilis* (KAHL, 1932) WARREN, FYDA & SONG, 2002**Genus Onychodromus** STEIN, 1859*Onychodromus grandis* STEIN, 1859**Genus Oxytricha** BORY, 1824*Oxytricha acidotolerans* WEISSE, MOSER, SCHEFFEL, STADLER, BERENDONK, WEITHOFF & BERGER, 2013*Oxytricha chlorelligera* KAHL, 1932*Oxytricha fallax* STEIN, 1859*Oxytricha hymenostoma* STOKES, 1887*Oxytricha opisthomuscorum* FOISSNER, BLATTERER, BERGER & KOHMANN, 1991*Oxytricha parallela* ENGELMANN, 1862*Oxytricha saprobia* KAHL, 1932*Oxytricha setigera* STOKES, 1891*Oxytricha similis* ENGELMANN, 1862*Oxytricha siseris* VUXANOVICI, 1963**Genus Paraurostyla** BORROR, 1972*Paraurostyla weissei* (STEIN, 1859) BORROR, 1972**Genus Pleurotricha** STEIN, 1859*Pleurotricha grandis* STEIN, 1859*Pleurotricha lanceolata* (EHRENBERG, 1835) STEIN, 1859**Genus Rubrioxxytricha** BERGER, 1999*Rubrioxxytricha ferruginea* (STEIN, 1859) BERGER, 1999*Rubrioxxytricha haematoplasma* (BLATTERER & FOISSNER, 1990) BERGER, 1999**Genus Steinia** DIESING, 1866*Steinia platystoma* (EHRENBERG, 1831) DIESING, 1866*Steinia sphagnicola* FOISSNER, 1989**Genus Sterkiella** FOISSNER, BLATTERER, BERGER & KOHMANN, 1991*Sterkiella admirabilis* (FOISSNER, 1980) BERGER, 1999*Sterkiella histriomuscorum* (FOISSNER, BLATTERER, BERGER & KOHMANN, 1991) FOISSNER, BLATTERER, BERGER & KOHMANN, 1991

Genus Stylonychia EHRENBERG, 1830*Stylonychia mytilus*-Komplex*Stylonychia putrina* STOKES, 1885**Genus Tachysoma** STOKES, 1887*Tachysoma pellionellum* (MÜLLER, 1773) BORROR, 1972**Genus Tetmemena** EIGNER, 1999*Tetmemena pustulata* (MÜLLER, 1786) EIGNER, 1999**Genus Urosoma** KOWALEWSKI, 1882*Urosoma acuminata* (STOKES, 1887) BÜTSCHLI, 1889*Urosoma caudatum* (EHRENBERG, 1833) BERGER, 1999**Genus Urosomoida** HEMBERGER IN FOISSNER, 1982*Urosomoida agilis* (ENGELMANN, 1862) HEMBERGER IN FOISSNER, 1982**Family Uroleptidae****Genus Uroleptus** EHRENBERG, 1831*Uroleptus caudatus* (STOKES, 1886) BARDELE, 1981*Uroleptus gallina* (MÜLLER, 1786) FOISSNER, BLATTERER, BERGER & KOHMANN, 1991*Uroleptus lamella* EHRENBERG, 1831*Uroleptus musculus* (KAHL, 1932) FOISSNER, BLATTERER, BERGER & KOHMANN, 1991*Uroleptus piscis* (MÜLLER, 1773) EHRENBERG, 1831*Uroleptus violaceus* STEIN, 1859*Uroleptus willii* SONNTAG, STRÜDER-KYPKE & SUMMERER, 2008**Order Urostylida****Genus Anteholosticha** BERGER, 2003*Anteholosticha antecirrata* BERGER, 2006*Anteholosticha intermedia* (BERGH, 1889) BERGER, 2006*Anteholosticha monilata* (KAHL, 1928) BERGER, 2003*Anteholosticha xanthichroma* (WIRNSBERGER & FOISSNER, 1987) BERGER, 2003**Genus Australothrix** BLATTERER & FOISSNER, 1988*Australothrix gibba* (CLAPARÈDE & LACHMANN, 1859) BLATTERER & FOISSNER, 1988**Genus Diaxonella** JANKOWSKI, 1979*Diaxonella pseudorubra pseudorubra* (KALTENBACH, 1960) BERGER, 2006**Genus Holosticha** WRZESNIEWSKI, 1877*Holosticha pullaster* (MÜLLER, 1773) FOISSNER, BLATTERER, BERGER & KOHMANN, 1991**Genus Holostichides** FOISSNER, 1987*Holostichides dumonti* FOISSNER, 2000**Genus Pseudokeronopsis** BORROR & WICKLOW, 1983*Pseudokeronopsis similis* (STOKES, 1886) BORROR & WICKLOW, 1983**Genus Pseudourostyla** BORROR, 1972*Pseudourostyla cristata* (JERKA-DZIADOSZ, 1964) BORROR, 1972**Genus Trichototaxis** STOKES, 1891*Trichototaxis aeruginosa* FOISSNER, 1980

Genus Urostyla EHRENBERG, 1830*Urostyla grandis* EHRENBERG, 1830*Urostyla chlorelligera* FOISSNER, 1980*Urostyla viridis* STEIN, 1859**Order Euplotida****Genus Aspidisca** EHRENBERG, 1830*Aspidisca cicada* (MÜLLER, 1786) CLAPARÈDE & LACHMANN, 1858*Aspidisca lynceus* (MÜLLER, 1773) EHRENBERG, 1830*Aspidisca turrita* (EHRENBERG, 1831) CLAPARÈDE & LACHMANN, 1858**Genus Euplotes** EHRENBERG, 1831*Euplotes charon* (MÜLLER, 1773) EHRENBERG, 1830*Euplotes harpa* STEIN, 1859*Euplotes moebiusi* KAHL, 1932*Euplotes parki* CURDS, 1974**Genus Euplotoides** BORROR & HILL, 1995*Euplotoides aediculatus* (PIERSON, 1943) BORROR & HILL, 1995*Euplotoides eurystomus* (WRZESNIEWSKI, 1870) BORROR & HILL, 1995*Euplotoides patella* (MÜLLER, 1773) BORROR & HILL, 1995**Genus Euplotopsis** BORROR & HILL, 1995*Euplotopsis affinis* (DUJARDIN, 1841) BORROR & HILL, 1995*Euplotopsis novemcarinatus* (WANG, 1930) BORROR & HILL, 1995**Subclass Halteriia****Order Halteriida****Genus Halteria** DUJARDIN, 1841*Halteria bifurcata* TAMAR, 1968*Halteria chlorelligera* KAHL, 1932*Halteria grandinella* (MÜLLER, 1773) DUJARDIN, 1841*Halteria minuta* MAEDA, 1986**Genus Meseres** SCHEWIAKOFF, 1892*Meseres corlissi* PETZ & FOISSNER, 1992**Genus Pelagohalteria** FOISSNER, SKOGSTAD & PRATT, 1988*Pelagohalteria cirrifera* (KAHL, 1932) FOISSNER, SKOGSTAD & PRATT, 1988*Pelagohalteria viridis* (FROMENTEL, 1876) FOISSNER, SKOGSTAD & PRATT, 1988**Subclass Choreotrichia****Order Choreotrichida****Genus Strobilidium** SCHEWIAKOFF, 1892*Strobilidium caudatum* (FROMENTEL, 1876) FOISSNER, 1987*Strobilidium lacustris* FOISSNER, SKOGSTAD & PRATT, 1988

Subclass Oligotrichia**Order Strobilidiida****Genus Rimostrombidium** JANKOWSKI, 1978*Rimostrombidium brachykinetum* KRAINER, 1995*Rimostrombidium conicum* (KAHL, 1932) PETZ & FOISSNER, 1992*Rimostrombidium humile* (PENARD, 1922) PETZ & FOISSNER, 1992*Rimostrombidium hyalinum* (MIRABDULLAEV, 1985) PETZ & FOISSNER, 1992*Rimostrombidium lacustris* (FOISSNER, SKOGSTAD & PRATT, 1988) PETZ & FOISSNER, 1992*Rimostrombidium velox* (FAURE-FREMIET, 1924) JANKOWSKI, 1978**Order Strombidiida****Genus Limnostrombidium** KRAINER, 1995*Limnostrombidium pelagicum* (KAHL, 1932) KRAINER, 1995*Limnostrombidium viride* (STEIN, 1867) KRAINER, 1995**Genus Opisthostrombidium** AGATHA, 2011*Opisthostrombidium montagnesi* (XU, SONG & WARREN, 2006) AGATHA, 2011**Genus Pelagostrombidium** KRAINER, 1991*Pelagostrombidium fallax* (ZACHARIAS, 1895) KRAINER, 1991*Pelagostrombidium mirabile* (PENARD, 1916) KRAINER, 1991**Genus Strombidium** CLAPARÈDE & LACHMANN, 1859*Strombidium rehwaldi* PETZ & FOISSNER, 1992*Strombidium turbo* CLAPARÈDE & LACHMANN, 1859**Order Tintinnida****Genus Codonella** HAECKEL, 1873*Codonella cratera* (LEIDY, 1877) IMHOF, 1885**Genus Membranicola** FOISSNER, BERGER & SCHAUMBURG, 1999*Membranicola tamari* FOISSNER, BERGER & SCHAUMBURG, 1999**Genus Tintinnidium** KENT, 1881*Tintinnidium (Semitintinnidium) semiciliatum* (STERKI, 1879) KENT, 1881 in AGATHA & STRÜDER-KYPKE (2007)*Tintinnidium (Tintinnidium) fluviatile* (STEIN, 1863) KENT, 1881*Tintinnidium (Tintinnidium) pusillum* ENTZ, 1909**Genus Tintinnopsis** STEIN, 1867*Tintinnopsis cylindrata* KOFOID & CAMPBELL, 1929**Class Armophorea****Order Armophorida****Genus Caenomorpha** PERTY, 1852*Caenomorpha lauterborni* KAHL, 1927*Caenomorpha medusula* PERTY, 1852*Caenomorpha uniserialis* LEVANDER, 1894**Genus Ludio** PENARD, 1922*Ludio parvulus* PENARD, 1922

Order Metopida**Genus Bothrostoma** STOKES, 1887*Bothrostoma undulans* STOKES, 1887**Genus Brachonella** JANKOWSKI, 1964*Brachonella caduca* (KAHL, 1927) JANKOWSKI, 1964*Brachonella caenomorphoides* FOISSNER, 1980*Brachonella galeata* (KAHL, 1927) JANKOWSKI, 1964*Brachonella spiralis* (SMITH, 1897) JANKOWSKI, 1964**Genus Metopus** CLAPARÈDE & LACHMANN, 1858*Metopus alpestris* FOISSNER, 1980*Metopus bothrostomiformis* FOISSNER, 1980*Metopus contortus* (QUENNERSTEDT, 1867) LAUTERBORN, 1916*Metopus es* (MÜLLER, 1776) LAUTERBORN, 1916*Metopus laminarius* KAHL, 1927*Metopus minor* KAHL, 1927*Metopus rectus* KAHL, 1932*Metopus spinosus* KAHL, 1927*Metopus striatus* MCMURRICH, 1884*Metopus tortus* KAHL, 1927**Genus Tropidoatractus** LEVANDER, 1894*Tropidoatractus acuminatus* LEVANDER, 1894**Class Litostomatea****Order Tracheliida****Genus Trachelius** SCHRANK, 1803*Trachelius anas* (MÜLLER, 1773) EHRENBERG, 1831*Trachelius ovum* (EHRENBERG, 1831) EHRENBERG, 1833**Order Dileptida****Genus Apodileptus** VĚAČNÝ, ORSI, BOURLAND, SHIMANO, EPSTEIN & FOISSNER, 2011*Apodileptus visscheri rhabdoplites* VĚAČNÝ & FOISSNER, 2012*Apodileptus visscheri visscheri* (DRAGESCO, 1963) VĚAČNÝ, ORSI, BOURLAND, SHIMANO, EPSTEIN & FOISSNER, 2011**Genus Dileptus** DUJARDIN, 1841*Dileptus anatinus* GOLINSKA, 1971*Dileptus jonesi* DRAGESCO, 1963*Dileptus margaritifera* (EHRENBERG, 1833) DUJARDIN, 1841*Dileptus viridis* (EHRENBERG, 1834) BUITKAMP, 1977**Genus Monilicaryon** JANKOWSKI, 1967*Monilicaryon monilatum* (STOKES, 1886) JANKOWSKI, 1967**Genus Monomacrocaryon** VĚAČNÝ, ORSI, BOURLAND, SHIMANO, EPSTEIN & FOISSNER, 2011*Monomacrocaryon gigas* (CLAPARÈDE & LACHMANN, 1859) VĚAČNÝ, ORSI, BOURLAND, SHIMANO, EPSTEIN & FOISSNER, 2011

Genus Paradileptus WENRICH, 1929*Paradileptus elephantinus* (SVEC, 1897) KAHL, 1931**Genus Pelagodileptus** FOISSNER, BERGER & SCHAUMBURG, 1999*Pelagodileptus trachelioides* (ZACHARIAS, 1894) FOISSNER, BERGER & SCHAUMBURG, 1999**Genus Pseudomonilicaryon** FOISSNER, 1997*Pseudomonilicaryon anser* (MÜLLER, 1773) VĎAČNÝ & FOISSNER, 2012**Subclass Haptoria****Order Didiniida****Genus Didinium** STEIN, 1859*Didinium nasutum* (MÜLLER, 1773) STEIN, 1859**Genus Monodinium** FABRE-DOMERGUE, 1888*Monodinium alveolatum* (KAHL, 1930) FOISSNER, BERGER & SCHAUMBURG, 1999*Monodinium balbianii balbianii* FABRE-DOMERGUE, 1888*Monodinium balbianii breviproscis* FOISSNER, BERGER & SCHAUMBURG, 1999*Monodinium balbianii rostratum* (KAHL, 1926) FOISSNER, BERGER & SCHAUMBURG, 1999*Monodinium chlorelligerum* KRAINER, 1995*Monodinium perrieri* DELPHY, 1925**Order Haptorida****Genus Enchelydium** KAHL, 1930*Enchelydium alpinum* FOISSNER, 1980*Enchelydium piliforme* (KAHL, 1930) FOISSNER, 1984*Enchelydium simile* FOISSNER, 1980*Enchelydium trichocystis* FOISSNER, 1980**Genus Fuscheria** FOISSNER, 1983*Fuscheria nodosa nodosa* FOISSNER, 1983*Fuscheria nodosa salisburgensis* FOISSNER & GABILONDO in GABILONDO & FOISSNER, 2009**Genus Lagynophrya** KAHL, 1927*Lagynophrya acuminata* KAHL, 1935**Order Lacrymariida****Genus Lacrymaria** BORY, 1824*Lacrymaria filiformis* (BARAUD in MASKELL, 1886) FOISSNER, 1983*Lacrymaria olor* (MÜLLER, 1786) BORY, 1824*Lacrymaria pumilio* VUXANOVICI, 1962*Lacrymaria pupula* (MÜLLER, 1773) KAHL, 1930*Lacrymaria robusta* VUXANOVICI, 1959*Lacrymaria vaginifera* SONG & WILBERT, 1989*Lacrymaria viridis* (EHRENBERG, 1834) DUJARDIN, 1841**Genus Lagynus** QUENNERSTEDT, 1867*Lagynus cucumis* (PENARD, 1922) FOISSNER, 1987*Lagynus elegans* (ENGELMANN, 1862) QUENNERSTEDT, 1867*Lagynus verrucosus* FOISSNER, 1983

Genus Phialina BORY, 1824

- Phialina jankowskii* FOISSNER, 1984
Phialina macrostoma FOISSNER, 1983
Phialina vermicularis (MÜLLER, 1786) BORY, 1824
Phialina vertens (STOKES, 1885) FOISSNER & ADAM, 1979
Phialina viridis EHRENBERG, 1831

Order Pleurostomatida**Genus Acineria** DUJARDIN, 1841

- Acineria incurvata* DUJARDIN, 1841
Acineria punctata SONG & WILBERT, 1989
Acineria uncinata TUCOLESCO, 1962

Genus Amphileptus EHRENBERG, 1830

- Amphileptus carchesii* STEIN, 1867
Amphileptus falcatus SONG & WILBERT, 1989
Amphileptus meleagris (EHRENBERG, 1835) CLAPARÈDE & LACHMANN, 1859
Amphileptus piger (VUXANOVICI, 1962) SONNTAG & FOISSNER, 2004
Amphileptus pleurosigma (STOKES, 1884) FOISSNER, 1984
Amphileptus plurivacuolatus (FOISSNER, 1978) FOISSNER, 1987
Amphileptus procerus (PENARD, 1922) KAHL, 1943
Amphileptus punctatus (KAHL, 1926) KAHL, 1943

Genus Apoamphileptus LIN & SONG, 2004

- Apoamphileptus claparedii* (STEIN, 1867) LIN & SONG, 2004

Genus Litonotus WRZESNIEWSKI, 1870

- Litonotus alpestris* FOISSNER, 1978
Litonotus anguilloides SRÁMEK-HUSEK, 1957
Litonotus carinatus STOKES, 1885
Litonotus crystallinus VUXANOVICI, 1960
Litonotus cygnus (MÜLLER, 1773) FOISSNER, BERGER, BLATTERER & KOHMANN, 1995
Litonotus fusidens KAHL, 1926
Litonotus lamella (MÜLLER, 1773) SCHEWIAKOFF, 1896
Litonotus obtusus (MAUPAS, 1888) KAHL, 1932
Litonotus trichocystiferus FOISSNER, 1984
Litonotus uninucleatus FOISSNER, 1978
Litonotus varsaviensis (WRZESNIEWSKI, 1866) WRZESNIEWSKI, 1870

Genus Loxophyllum DUJARDIN, 1841

- Loxophyllum helus* (STOKES, 1884) PENARD, 1922
Loxophyllum meleagris (MÜLLER, 1773) DUJARDIN, 1841
Loxophyllum semilunare VUXANOVICI, 1959

Genus Opisthodon STEIN, 1859

- Opisthodon niemeccensis* STEIN, 1859

Genus Pseudoamphileptus FOISSNER, 1983

- Pseudoamphileptus macrostoma* (CHEN, 1955) FOISSNER, 1983

Genus Siroloxophyllum FOISSNER & LEIPE, 1995*Siroloxophyllum utricularium* (PENARD, 1922) FOISSNER & LEIPE, 1995**Order Spathidiida****Genus Acaryophrya** ANDRÉ, 1915*Acaryophrya sphaerica* (GELEI, 1934) DINGFELDER, 1962**Genus Acropisthium** PERTY, 1852*Acropisthium mutabile* PERTY, 1852**Genus Actinobolina** STRAND, 1928*Actinobolina radians* (STEIN, 1867) STRAND, 1928*Actinobolina smalli* HOLT, LYNN & CORLISS, 1973*Actinobolina vorax* (WENRICH, 1929) KAHL, 1930**Genus Actinorhabdos** FOISSNER, 1984*Actinorhabdos trichocystifera* FOISSNER, 1984**Genus Apertospathula** FOISSNER, AGATHA & BERGER, 2002*Apertospathula implicata* (KAHL, 1930) FOISSNER & OERTEL, 2009**Genus Balantidion** EBERHARD, 1862*Balantidion pellucidum* EBERHARD, 1862**Genus Belonophrya** ANDRE, 1914*Belonophrya pelagica* ANDRE, 1914**Genus Berghophrya** FOISSNER, 2003*Berghophrya emmae* (BERGH, 1896) FOISSNER, 2003**Genus Cataphractes** FOISSNER, 2016*Cataphractes austriacus* FOISSNER, 2016**Genus Chaenea** QUENNERSTEDT, 1867*Chaenea limicola* LAUTERBORN, 1901*Chaenea stricta* (DUJARDIN, 1841) FOISSNER, BERGER, BLATTERER & KOHMANN, 1995**Genus Cranotheridium** SCHEWIAKOFF, 1893*Cranotheridium foliosum* (FOISSNER, 1983) WIRNSBERGER, FOISSNER & ADAM, 1984**Genus Enchelyodon** CLAPARÈDE & LACHMANN, 1859*Enchelyodon anulatus* FOISSNER, 1984*Enchelyodon farctus* CLAPARÈDE & LACHMANN, 1859**Genus Enchelys** MÜLLER, 1773*Enchelys arcuata* CLAPARÈDE & LACHMANN, 1859*Enchelys binucleata* FOISSNER, 1983*Enchelys farcimen* MÜLLER, 1773*Enchelys gasterosteus* KAHL, 1926*Enchelys mutans* (MERMOD, 1914) KAHL, 1930*Enchelys nebulosa* MÜLLER, 1773*Enchelys pupa* MÜLLER, 1786**Genus Epitholiolus** FOISSNER, AGATHA & BERGER, 2002*Epitholiolus attenuatus* (FOISSNER, 1983) FOISSNER, AGATHA & BERGER, 2002

Genus Homalozoon STOKES, 1890*Homalozoon vermiculare* (STOKES, 1887) STOKES, 1890**Genus Myriokaryon** JANKOWSKI, 1973*Myriokaryon lieberkuehnii* (BÜTSCHLI, 1889) JANKOWSKI, 1973**Genus Papillorhabdos** FOISSNER, 1984*Papillorhabdos carchesii* FOISSNER, 1984**Genus Perispira** STEIN, 1859*Perispira pyriformis* WIRNSBERGER, FOISSNER & ADAM, 1984**Genus Pithothorax** KAHL, 1926*Pithothorax ovatus* (KAHL, 1926) KAHL, 1927**Genus Semispathidium** FOISSNER, AGATHA & BERGER, 2002*Semispathidium pulchrum* FOISSNER, HESS & AL-RASHEID, 2010**Genus Spathidium** DUJARDIN, 1841*Spathidium ampulliforme minuta* KALTENBACH, 1960*Spathidium anguilla* VUXANOVICI, 1962*Spathidium deforme* KAHL, 1928*Spathidium depressum* KAHL, 1930*Spathidium lieberkuehnii* BÜTSCHLI, 1889*Spathidium liepoli* KALTENBACH, 1960*Spathidium puteolagri* BAUMEISTER in KAHL, 1930*Spathidium spathula* (MÜLLER, 1773) ?DUJARDIN, 1841*Spathidium tortum* FOISSNER, 1980**Genus Teuthophrys** CHATTON & BEAUCHAMP, 1923*Teuthophrys trisulca trisulca* CHATTON & BEAUCHAMP, 1923**Genus Trachelophyllum** CLAPARÈDE & LACHMANN, 1859*Trachelophyllum apiculatum* (PERTY, 1852) CLAPARÈDE & LACHMANN, 1859*Trachelophyllum clavatum* STOKES, 1886*Trachelophyllum hyalinum* FOISSNER, 1983*Trachelophyllum sigmoides* KAHL, 1926*Trachelophyllum valkanovi* (LEPSI, 1959) FOISSNER, 1983*Trachelophyllum vestitum* STOKES, 1884**Subclass Trichostomatia****Order Cyclotrichida****Genus Askenasia** BLOCHMANN, 1895*Askenasia acrostomia* KRAINER & FOISSNER, 1990*Askenasia chlorelligera* KRAINER & FOISSNER, 1990*Askenasia volvox* (EICHWALD, 1852) BLOCHMANN, 1895**Genus Cyclotrichium** MEUNIER, 1910*Cyclotrichium viride* GAJEWSKAJA, 1933**Genus Mesodinium** STEIN, 1863*Mesodinium acarus* STEIN, 1867*Mesodinium pulex* (CLAPARÈDE & LACHMANN, 1859) STEIN, 1867

Genus Pelagovasicola JANKOWSKI, 1980

Pelagovasicola cinctus (VOIGT, 1901) JANKOWSKI, 1980

Genus Rhabdoaskenasia KRAINER & FOISSNER, 1990

Rhabdoaskenasia minima KRAINER & FOISSNER, 1990

Order Pseudoholophryida**Genus Ovalorhabdos FOISSNER, 1984**

Ovalorhabdos sapropelica FOISSNER, 1984

Genus Paraenchelys FOISSNER, 1983

Paraenchelys spiralis FOISSNER, 1983

Class Phyllopharyngea**Subclass Cyrtophoria****Order Chlamydodontida****Genus Alinostoma JANKOWSKI, 1980**

Alinostoma burkli BLATTERER & FOISSNER, 1990

Remarks: In BLATTERER (2002) this species is quoted as *Alinostoma plurivacuolata*, because in some populations (n = 30) several specimens had a characteristic dorsal body which projected the ventral side, a feature used for the separation of *A. plurivacuolata* (DEROUX & DRAGESCO, 1968) JANKOWSKI, 1980 from *A. burkli* (BLATTERER & FOISSNER 1990). *Alinostoma* is very likely a synonym of *Pseudochilodonopsis* FOISSNER, 1979 (AESCHT 2001, p. 20).

Genus Chilodonella STRAND, 1928

Chilodonella cyprini (MOROFF, 1902) KAHL, 1931

Chilodonella hexasticha (KIERNIK, 1909) KAHL, 1931

Chilodonella labiata (STOKES, 1891) KAHL, 1931

Chilodonella schewiakoffi (SCHOUTEDEN, 1906) KAHL, 1931

Chilodonella uncinata (EHRENBERG, 1838) STRAND, 1928

Genus Chlamydonella PETZ, SONG & WILBERT, 1995

Chlamydonella alpestris (FOISSNER, 1979) PETZ, SONG & WILBERT, 1995

Chlamydonella minuta (PÄTSCH, 1974) PETZ, SONG & WILBERT, 1995

Chlamydonella rostrata (VUXANOVICI, 1963) PETZ, SONG & WILBERT, 1995

Genus Chlamydonellopsis BLATTERER & FOISSNER, 1990

Chlamydonellopsis plurivacuolata BLATTERER & FOISSNER, 1990

Chlamydonellopsis polonica (FOISSNER, CZAPIK & WIACKOWSKI, 1981) BLATTERER & FOISSNER, 1990

Genus Gastronauta ENGELMANN in BÜTSCHLI, 1889

Gastronauta aloisi OBERSCHMIDLEITNER & AESCHT, 1996

Gastronauta membranaceus ENGELMANN in BÜTSCHLI, 1889

Genus Odontochlamys CERTES, 1891

Odontochlamys alpestris FOISSNER, 1981

Odontochlamys gouraudi CERTES, 1891

Genus Paragastronauta FOISSNER, 2001

Paragastronauta clatratus (DEROUX, 1976) FOISSNER, 2001

Genus Phascolodon STEIN, 1859*Phascolodon vorticella* STEIN, 1859**Genus Pseudochilodonopsis** FOISSNER, 1979*Pseudochilodonopsis algivora* (KAHL, 1931) FOISSNER, 1979*Pseudochilodonopsis caudata* (PERTY, 1852) BLATTERER & FOISSNER, 1990*Pseudochilodonopsis fluviatilis* FOISSNER, 1988*Pseudochilodonopsis kloiberi* FOISSNER, 1979*Pseudochilodonopsis piscatoris* (BLOCHMANN, 1895) FOISSNER, 1979*Pseudochilodonopsis polyvacuolata* FOISSNER & DIDIER, 1981**Genus Thigmogaster** DEROUX, 1976*Thigmogaster oppositovacuolatus* AUGUSTIN & FOISSNER, 1989*Thigmogaster potamophilus* FOISSNER, 1988**Genus Trithigmostoma** JANKOWSKI, 1967*Trithigmostoma alpestris* FOISSNER, 1979*Trithigmostoma cucullulus* (MÜLLER, 1786) JANKOWSKI, 1967*Trithigmostoma marginatus* (SRÁMEK-HUSEK, 1957) FOISSNER, 1987*Trithigmostoma pituitosum* FOISSNER, 1979*Trithigmostoma srameki* FOISSNER, 1988*Trithigmostoma steini* (BLOCHMANN, 1895) FOISSNER, 1988**Genus Wilbertella** GONG & SONG, 2006*Wilbertella distyla* (WILBERT, 1971) GONG & SONG, 2006**Order Dysteriida****Genus Dysteria** HUXLEY, 1857*Dysteria fluviatilis* (STEIN, 1859) BLOCHMANN, 1895*Dysteria navicula* KAHL, 1928*Dysteria scutellum* WILBERT, 1971**Genus Orthotrochilia** SONG, 2003*Orthotrochilia agamalievi* (DEROUX, 1976) SONG, 2003**Genus Trochilia** DUJARDIN, 1841*Trochilia minuta* (ROUX, 1899) KAHL, 1931*Trochilia palustris* STEIN, 1859**Genus Trochilioides** JANKOWSKI, 2007*Trochilioides fimbriata* (FOISSNER, 1984) JANKOWSKI, 2007*Trochilioides recta* (KAHL, 1928) JANKOWSKI, 2007**Subclass Suctoria****Order Exogemmida****Genus Spirochona** STEIN, 1852*Spirochona gemmipara* STEIN, 1852**Order Exogenida****Genus Loricophrya** MATTHES, 1956*Loricophrya lauterborni* (SONDHEIM, 1929) CURDS, 1987

Genus Metacineta BÜTSCHLI, 1889*Metacineta mystacina* (EHRENBERG, 1831) BÜTSCHLI, 1889**Genus Mistarcon** JANKOWSKI, 1997*Mistarcon parasitica* (NOZAWA, 1939) JANKOWSKI, 1997**Genus Multifasciculatum** GOODRICH & JAHN, 1943*Multifasciculatum elongatum* (CLAPARÈDE & LACHMANN, 1859) JANKOWSKI, 1981**Genus Parapodophrya** KAHL, 1931*Parapodophrya soliformis* (LAUTERBORN, 1908) KAHL, 1931**Genus Podophrya** EHRENBERG, 1833*Podophrya fixa* (MÜLLER, 1786) EHRENBERG, 1833*Podophrya libera* PERTY, 1852*Podophrya niphargi* STROUHAL, 1939*Podophrya stylonychia* (KENT, 1882) MATTHES, 1971*Podophrya urostylae* (MAUPAS, 1881) JANKOWSKI, 1963**Genus Schizactinia** JANKOWSKI, 1967*Schizactinia multiramosa* (WENZEL, 1961) JANKOWSKI, 1967**Genus Sphaerophrya** CLAPARÈDE & LACHMANN, 1859*Sphaerophrya canelli* CLEMENT, 1967*Sphaerophrya epizoica* (HAMMANN, 1952) MATTHES, 1988*Sphaerophrya magna* MAUPAS, 1881*Sphaerophrya parurolepti* FOISSNER, 1980*Sphaerophrya stentoris* MAUPAS, 1881**Order Endogenida****Genus Acineta** EHRENBERG, 1833*Acineta compressa* CLAPARÈDE & LACHMANN, 1859*Acineta flava* KELLICOTT, 1885*Acineta fluviatilis* STOKES, 1885*Acineta tuberosa* EHRENBERG, 1834**Genus Dendrosoma** EHRENBERG, 1837*Dendrosoma radians* EHRENBERG, 1837**Genus Pseudogemma** COLLIN, 1909*Pseudogemma fraiponti* COLLIN, 1909**Genus Solenophrya** CLAPARÈDE & LACHMANN, 1859*Solenophrya crassa* CLAPARÈDE & LACHMANN, 1859**Genus Staurophrya** ZACHARIAS, 1893*Staurophrya elegans* ZACHARIAS, 1893**Genus Tokophrya** BÜTSCHLI, 1889*Tokophrya carchesii* (CLAPARÈDE & LACHMANN, 1859) BÜTSCHLI, 1889*Tokophrya cyclopus* (CLAPARÈDE & LACHMANN, 1859) BÜTSCHLI, 1889*Tokophrya infusionum* (STEIN, 1859) BÜTSCHLI, 1889*Tokophrya lemnarum* (STEIN, 1859) ENTZ, 1902*Tokophrya quadripartita* (CLAPARÈDE & LACHMANN, 1859) BÜTSCHLI, 1889

Genus Trichophrya CLAPARÈDE & LACHMANN, 1859*Trichophrya epistylidis* CLAPARÈDE & LACHMANN, 1859*Trichophrya melosirae* (GAJEWSKAJA, 1933) DOVGAL, 2002**Order Evaginogenida****Genus Dendrocometes** STEIN, 1852*Dendrocometes paradoxus* STEIN, 1852**Genus Discophrya** LACHMANN, 1859*Discophrya cothurnata* (WEISSE, 1847) LACHMANN, 1859*Discophrya cylindrica* (PERTY, 1852) COLLIN, 1912*Discophrya laccophili* MATTHES, 1954**Genus Enchelyomorpha** KAHL, 1930*Enchelyomorpha vermicularis* (SMITH, 1899) KAHL, 1930**Genus Heliophrya** SAEDELEER & TELLIER, 1930*Heliophrya minima* (RIEDER, 1936) FOISSNER, 1988*Heliophrya rotunda* (HENTSCHEL, 1916) MATTHES, 1954**Genus Periacineta** COLLIN, 1909*Periacineta buckei* (KENT, 1882) COLLIN, 1909**Genus Prodiscophrya** KORMOS, 1935*Prodiscophrya collini* (ROOT, 1914) KORMOS, 1935**Class Nassophorea****Order Synhymeniida****Genus Chilodontopsis** BLOCHMANN, 1895*Chilodontopsis depressa* (PERTY, 1852) BLOCHMANN, 1895*Chilodontopsis muscorum* KAHL, 1931*Chilodontopsis planicaudata* SONG & WILBERT, 1989*Chilodontopsis vorax* (STOKES, 1887) KAHL, 1931**Genus Nassulopsis** FOISSNER, BERGER & KOHMANN, 1994*Nassulopsis elegans* (EHRENBERG, 1833) FOISSNER, BERGER & KOHMANN, 1994*Nassulopsis paucivacuolata* (FOISSNER, 1979) FOISSNER, BERGER & KOHMANN, 1994**Genus Zosterodasys** DEROUX, 1978*Zosterodasys transversa* (KAHL, 1928) FOISSNER, BERGER & KOHMANN, 1994**Order Nassulida****Genus Furgasonia** JANKOWSKI, 1964*Furgasonia blochmanni* (FAURE-FREMIET, 1967) JANKOWSKI, 1964*Furgasonia rubens* (PERTY, 1849) FOISSNER, 1979*Furgasonia theresae* (FABRE-DOMERGUE, 1890) FOISSNER, AGATHA & BERGER, 2002**Genus Nassula** EHRENBERG, 1833*Nassula citrea* KAHL, 1931*Nassula lateritia* CLAPARÈDE & LACHMANN, 1859*Nassula longinassa* FOISSNER, 1980*Nassula ornata* EHRENBERG, 1833

Nassula rotunda GELEI, 1950

Genus Nassulides FOISSNER, AGATHA & BERGER, 2002

Nassulides vernalis (GELEI & SZABADOS, 1950) FOISSNER, AGATHA & BERGER, 2002

Genus Obertrumia FOISSNER & ADAM, 1981

Obertrumia aurea (EHRENBERG, 1833) FOISSNER, 1987

Obertrumia georgiana (DRAGESCO, 1972) FOISSNER & ADAM, 1981

Obertrumia gracilis FOISSNER, 1989

Order Microthoracida

Genus Drepanomonas FRESENIUS, 1858

Drepanomonas lunaris FOISSNER, 1979

Drepanomonas obtusa PENARD, 1922

Drepanomonas revoluta PENARD, 1922

Genus Leptopharynx MERMOD, 1914

Leptopharynx costatus MERMOD, 1914

Genus Microthorax ENGELMANN, 1862

Microthorax leptopharyngiformis FOISSNER, 1985

Microthorax pusillus ENGELMANN, 1862

Microthorax simplex FOISSNER, 1985

Microthorax simulans (KAHL, 1926) KAHL, 1931

Microthorax sulcatus ENGELMANN, 1862

Microthorax transversus FOISSNER, 1985

Microthorax tridentatus PENARD, 1922

Genus Pseudomicrothorax MERMOD, 1914

Pseudomicrothorax agilis MERMOD, 1914

Pseudomicrothorax dubius (MAUPAS, 1883) PENARD, 1922

Pseudomicrothorax foliformis FOISSNER, 1987

Genus Trochiliopsis PENARD, 1922

Trochiliopsis opaca PENARD, 1922

Class Colpodea

Order Bursariomorphida

Genus Bryometopus KAHL, 1932

Bryometopus chlorelligerus FOISSNER, 1980

Bryometopus edaphonus FOISSNER, 1980

Bryometopus sphagni (PENARD, 1922) KAHL, 1932

Genus Bursaria MÜLLER, 1773

Bursaria truncatella MÜLLER, 1773

Genus Bursaridium LAUTERBORN, 1894

Bursaridium pseudobursaria (FAURÉ-FREMIET, 1924) KAHL, 1927

Genus Paracondylostoma FOISSNER, 1980

Paracondylostoma setigerum FOISSNER, 1980

Genus Thylakidium SCHEWIAKOFF, 1892*Thylakidium pituitosum* FOISSNER, 1980*Thylakidium truncatum* SCHEWIAKOFF, 1892**Order Colpodida****Genus Bresslaua** KAHL, 1931*Bresslaua insidiatrix* CLAFF, DEWEY & KIDDER, 1941*Bresslaua vorax* KAHL, 1931**Genus Colpoda** MÜLLER, 1773*Colpoda cucullus* (MÜLLER, 1773) GMELIN, 1790*Colpoda distincta* (SMITH, 1899) FOISSNER, 1993*Colpoda ecaudata* (LIEBMANN, 1936) FOISSNER, BLATTERER, BERGER & KOHMANN, 1991*Colpoda flavicans* (STOKES, 1885) FOISSNER, 1993*Colpoda inflata* (STOKES, 1884) KAHL, 1931*Colpoda ovinucleata* FOISSNER, 1980*Colpoda magna* (GRUBER, 1880) LYNN, 1978*Colpoda steinii* MAUPAS, 1883*Colpoda variabilis* FOISSNER, 1980**Genus Hackenbergia** FOISSNER, 1997*Hackenbergia langae* FOISSNER, 1997**Genus Maryna** GRUBER, 1879*Maryna ovata* (GELEI, 1950) GELEI, 1954*Maryna socialis* GRUBER, 1879*Maryna umbrellata* (GELEI, 1950) FOISSNER, 1993**Genus Pseudochlamydonella** BUITKAMP, SONG & WILBERT, 1989*Pseudochlamydonella rheophila* BUITKAMP, SONG & WILBERT, 1989**Order Platyophryida****Genus Platyophrya** KAHL, 1926*Platyophrya citrina* FOISSNER, 1980*Platyophrya dubia* FOISSNER, 1980*Platyophrya hyalina* FOISSNER, 1980*Platyophrya sphagni* (PENARD, 1922) FOISSNER, 1993*Platyophrya vorax* KAHL, 1926**Genus Rostrophrya** FOISSNER, 1993*Rostrophrya camerounensis* (NJINE, 1979) FOISSNER, 1993**Order Cyrtolophosidida****Genus Cyrtolophosis** STOKES, 1885*Cyrtolophosis acuta* KAHL, 1926*Cyrtolophosis elongata* (SCHEWIAKOFF, 1892) KAHL, 1931*Cyrtolophosis mucicola* STOKES, 1885**Genus Kreyella** KAHL, 1931*Kreyella minuta* FOISSNER, 1979

Class Prostomatea**Order Prostomatida**

Genus Apsiktrata FOISSNER, BERGER & KOHMANN, 1994

Apsiktrata gracilis (PENARD, 1922) FOISSNER, BERGER & KOHMANN, 1994

Genus Bursellopsis CORLISS, 1960

Bursellopsis nigricans mobilis (WANG & NIE, 1933) FOISSNER, BERGER & SCHAUMBURG, 1999

Bursellopsis spumosa (SCHMIDT, 1920) CORLISS, 1960

Genus Vasicola TATEM, 1869

Vasicola ciliata TATEM, 1869

Vasicola lutea KAHL, 1930

Order Prorodontida

Genus Balanion WULFF, 1919

Balanion planctonicum (FOISSNER, OLEKSIV & MÜLLER, 1990) FOISSNER, BERGER & KOHMANN, 1994

Genus Coleps NITZSCH, 1827

Coleps elongatus EHRENBERG, 1830

Coleps hirtus hirtus (MÜLLER, 1786) NITZSCH, 1827

Coleps hirtus viridis EHRENBERG, 1831

Coleps quadrispinus FOISSNER, 1983

Coleps spetai FOISSNER, 1984

Genus Holophrya EHRENBERG, 1831

Holophrya coleps EHRENBERG, 1831

Holophrya discolor EHRENBERG, 1833

Holophrya nigricans LAUTERBORN, 1894

Holophrya ovum EHRENBERG, 1831

Holophrya saginata PENARD, 1922

Holophrya teres (EHRENBERG, 1833) FOISSNER, BERGER & KOHMANN, 1994

Genus Longifragma FOISSNER, 1984

Longifragma obliqua (KAHL, 1926) FOISSNER, 1984

Genus Malacophrys KAHL, 1926

Malacophrys viridis FOISSNER, 1980

Genus Nolandia SMALL & LYNN, 1985

Nolandia nolandi (KAHL, 1930) SMALL & LYNN, 1985

Genus Pantotrichum EHRENBERG, 1830

Pantotrichum enchelys EHRENBERG, 1831

Genus Paraurotricha FOISSNER, 1983

Paraurotricha discolor (KAHL, 1930) FOISSNER, 1983

Genus Pelagothrix FOISSNER, BERGER & SCHAUMBURG, 1999

Pelagothrix plancticola FOISSNER, BERGER & SCHAUMBURG, 1999

Genus Pinacocoleps DIESING, 1866

Pinacocoleps incurvus (EHRENBERG, 1833) DIESING, 1866

Genus Placus COHN, 1866*Placus luciae* (KAHL, 1926) KAHL, 1930*Placus ovum* (KAHL, 1926) KAHL, 1930**Genus Plagiocampa** SCHEWIAKOFF, 1892*Plagiocampa rouxi* KAHL, 1926**Genus Prorodon** EHRENBERG, 1833*Prorodon armatus* CLAPARÈDE & LACHMANN, 1859*Prorodon cinctus* FOISSNER, 1983*Prorodon ellipticus* (KAHL, 1930) FOISSNER, BERGER & KOHMANN, 1994*Prorodon niveus* EHRENBERG, 1833**Genus Urotricha** CLAPARÈDE & LACHMANN, 1859*Urotricha agilis* (STOKES, 1886) KAHL, 1930*Urotricha apsheronica* ALEKPEROV, 1984*Urotricha armata* KAHL, 1927*Urotricha castalia* MUNOZ, TELLEZ & FERNANDENZ-GALIANO, 1987*Urotricha corlissiana* SONG & WILBERT, 1989*Urotricha farcta* CLAPAREDE & LACHMANN, 1859*Urotricha furcata* SCHEWIAKOFF, 1892*Urotricha globosa* SCHEWIAKOFF, 1892*Urotricha lagenula* (EHRENBERG, 1831) KENT, 1881*Urotricha macrostoma* FOISSNER, 1983*Urotricha matthesi matthesi* KRAINER, 1995*Urotricha matthesi tristicha* FOISSNER & PFISTER, 1997*Urotricha ovata* KAHL, 1926*Urotricha pelagica* KAHL, 1935*Urotricha platystoma* STOKES, 1886*Urotricha psenneri* SONNTAG & FOISSNER, 2004*Urotricha pseudofurcata* KRAINER, 1995*Urotricha ristoi* KRAINER, 1995*Urotricha simonsbergeri* FOISSNER, BERGER & SCHAUMBURG, 1999*Urotricha spetai* FOISSNER, 2012*Urotricha venatrix* KAHL, 1935**Class Plagiopylea****Order Plagiopylida****Genus Plagiopyla** STEIN, 1860*Plagiopyla nasuta* STEIN, 1860**Order Trimyemida****Genus Discomorphella** CORLISS, 1960*Discomorphella pectinata* (LEVANDER, 1894) CORLISS, 1960**Genus Trimyema** LACKEY, 1925*Trimyema compressum* LACKEY, 1925

Order Odontostomatida**Genus Epalxella** CORLISS, 1960*Epalxella antiquorum* (PENARD, 1922) CORLISS, 1960*Epalxella bidens* (KAHL, 1932) CORLISS, 1960*Epalxella striata* (KAHL, 1926) CORLISS, 1960**Genus Mylestoma** KAHL, 1928*Mylestoma anatinum* (PENARD, 1922) KAHL, 1932**Genus Pelodinium** LAUTERBORN, 1908*Pelodinium reniforme* LAUTERBORN, 1908**Genus Saprodinium** LAUTERBORN, 1908*Saprodinium dentatum* (LAUTERBORN, 1901) LAUTERBORN, 1908*Saprodinium putrinum* LACKEY, 1925**Class Oligohymenophorea****Subclass Peniculia****Order Peniculida****Genus Clathrostoma** PENARD, 1922*Clathrostoma viminale* PENARD, 1922**Genus Disematostoma** LAUTERBORN, 1894*Disematostoma buetschlii* LAUTERBORN, 1894*Disematostoma colpidioides* GELEI, 1954**Genus Frontonia** EHRENBERG, 1833*Frontonia acuminata* (EHRENBERG, 1833) BÜTSCHLI, 1889*Frontonia angusta* KAHL, 1931*Frontonia atra* (EHRENBERG, 1833) BÜTSCHLI, 1889*Frontonia elliptica* BEARDSLEY, 1902*Frontonia leucas* (EHRENBERG, 1833) EHRENBERG, 1838*Frontonia rotunda* GELEI, 1954*Frontonia vernalis* (EHRENBERG, 1833) KAHL, 1931**Genus Lembadion** PERTY, 1849*Lembadion bullinum* (MÜLLER, 1786) PERTY, 1849*Lembadion lucens* (MASKELL, 1887) KAHL, 1931*Lembadion magnum* (STOKES, 1887) KAHL, 1931**Genus Marituja** GAJEWSKAJA, 1928*Marituja pelagica* GAJEWSKAJA, 1928**Genus Paramecium** MÜLLER, 1773*Paramecium aurelia*-Komplex*Paramecium bursaria* (EHRENBERG, 1831) FOCKE, 1836*Paramecium caudatum* EHRENBERG, 1833*Paramecium putrinum* CLAPARÈDE & LACHMANN, 1859**Genus Stokesia** WENRICH, 1929*Stokesia vernalis* WENRICH, 1929

Order Urocentrida**Genus Urocentrum** NITZSCH, 1827*Urocentrum turbo* (MÜLLER, 1786) NITZSCH, 1827**Subclass Scuticociliatia****Order Philasterida****Genus Balanonema** JANKOWSKI, 2007*Balanonema sapropelica* (FOISSNER, 1978) JANKOWSKI, 2007**Genus Cinetochilum** PERTY, 1849*Cinetochilum margaritaceum* (EHRENBERG, 1831) PERTY, 1849**Genus Dexiotricha** STOKES, 1885*Dexiotricha colpidiopsis* (KAHL, 1926) JANKOWSKI, 1964*Dexiotricha granulosa* (KENT, 1881) FOISSNER, BERGER & KOHMANN, 1994*Dexiotricha polystyla* FOISSNER, 1987*Dexiotricha tranquilla* (KAHL, 1926) AUGUSTIN & FOISSNER, 1992**Genus Dexiotrichides** KAHL, 1931*Dexiotrichides centralis* (STOKES, 1885) KAHL, 1931**Genus Kahlilembus** GROLIERE & COUTEAUX, 1984*Kahlilembus attenuatus* (SMITH, 1897) FOISSNER, BERGER & KOHMANN, 1994**Genus Loxocephalus** EBERHARD, 1862*Loxocephalus lucidus* SMITH, 1897*Loxocephalus luridus* EBERHARD, 1862**Genus Philasterides** KAHL, 1931*Philasterides armatus* (KAHL, 1926) KAHL, 1931**Genus Platynematum** FOISSNER, BERGER & KOHMANN, 1994*Platynematum sociale* (PENARD, 1922) FOISSNER, BERGER & KOHMANN, 1994**Genus Pseudocohnilembus** EVANS & THOMPSON, 1964*Pseudocohnilembus pusillus* (QUENNERSTEDT, 1869) FOISSNER & WILBERT, 1981*Pseudocohnilembus putrinus* (KAHL, 1928) FOISSNER & WILBERT, 1981**Genus Sathrophilus** CORLISS, 1960*Sathrophilus muscorum* (KAHL, 1931) CORLISS, 1960**Genus Uronema** DUJARDIN, 1841*Uronema biceps* PENARD, 1922*Uronema marinum* DUJARDIN, 1841*Uronema nigricans* (MÜLLER, 1786) FLORENTIN, 1901*Uronema parduczi* FOISSNER, 1971**Genus Uropedalium** KAHL, 1928*Uropedalium pyriforme* KAHL, 1928**Genus Urozona** SCHEWIAKOFF, 1889*Urozona buetschlii* SCHEWIAKOFF, 1889

Order Pleuronematida**Genus Calyptotricha** PHILLIPS, 1882*Calyptotricha chlorelligera* (LEPSI, 1957) FOISSNER, 1987*Calyptotricha lanuginosa* (PENARD, 1922) WILBERT & FOISSNER, 1980**Genus Conchophthirus** STEIN, 1861*Conchophthirus acuminatus* (CLAPARÈDE & LACHMANN, 1858) STEIN, 1861*Conchophthirus anodontae* (EHRENBERG, 1838) STEIN, 1861**Genus Cristigera** ROUX, 1899*Cristigera hammeri* WILBERT, 1986*Cristigera minor* PENARD, 1922*Cristigera phoenix* PENARD, 1922*Cristigera setosa* KAHL, 1928**Genus Ctedoctema** STOKES, 1884*Ctedoctema acanthocryptum* STOKES, 1884**Genus Cyclidium** MÜLLER, 1773*Cyclidium elongatum* CLAPARÈDE & LACHMANN, 1859*Cyclidium glaucoma* MÜLLER, 1773*Cyclidium heptatrichum* SCHEWIAKOFF, 1893*Cyclidium pellucidum* KAHL, 1931*Cyclidium versatile* PENARD, 1922**Genus Histiobalantium** STOKES, 1886*Histiobalantium bodamicum* KRAINER & MÜLLER, 1995*Histiobalantium natans* (CLAPARÈDE & LACHMANN, 1859) KAHL, 1931**Genus Pleuronema** DUJARDIN, 1841*Pleuronema coronatum* KENT, 1881*Pleuronema crassum* DUJARDIN, 1841**Genus Protocyclidium** ALEKPEROV, 1993*Protocyclidium citrullus* (COHN, 1866) FOISSNER, AGATHA & BERGER, 2002**Subclass Hymenostomatia****Order Tetrahymenida****Genus Colpidium** STEIN, 1860*Colpidium colpoda* (LOSANA, 1829) STEIN, 1860*Colpidium kleini* FOISSNER, 1969**Genus Deltopylum** FAURÉ-FREMIET & MUGARD, 1946*Deltopylum rhabdoides* FAURE-FREMIET & MUGARD, 1946**Genus Dexiostoma** JANKOWSKI, 1967*Dexiostoma campylum* (STOKES, 1886) JANKOWSKI, 1967**Genus Dichilum** SCHEWIAKOFF, 1892*Dichilum platessoides* FAURÉ-FREMIET, 1924**Genus Epenardia** CORLISS, 1971*Epenardia myriophylli* (PENARD, 1922) CORLISS, 1971

Genus Espejoia BÜRGER, 1908*Espejoia culex* (SMITH, 1897) KAHL, 1931*Espejoia mucicola* (PENARD, 1922) KAHL, 1931**Genus Glaucoma** EHRENBERG, 1830*Glaucoma macrostoma* SCHEWIAKOFF, 1889*Glaucoma reniforme* SCHEWIAKOFF, 1892*Glaucoma scintillans* EHRENBERG, 1830*Glaucoma setosum* SCHEWIAKOFF, 1892**Genus Ichthyophthirius** FOUQUET, 1876*Ichthyophthirius multifiliis* FOUQUET, 1876**Genus Paracolpidium** GANNER & FOISSNER, 1989*Paracolpidium truncatum* (STOKES, 1885) GANNER & FOISSNER, 1989**Genus Spirozona** KAHL, 1926*Spirozona caudata* KAHL, 1926**Genus Stegochilum** SCHEWIAKOFF, 1892*Stegochilum schoenborni* FOISSNER, 1986**Genus Tetrahymena** FURGASON, 1940*Tetrahymena patula* (MÜLLER, 1786) CORLISS, 1951*Tetrahymena pyriformis*-Komplex**Genus Trichospira** ROUX, 1899*Trichospira inversa* (CLAPARÈDE & LACHMANN, 1859) KAHL, 1931**Genus Turaniella** CORLISS, 1960*Turaniella vitrea* (BRODSKY, 1925) CORLISS, 1960**Order Ophryoglenida****Genus Bursostoma** VÖRÖSVARY, 1950*Bursostoma bursaria* VÖRÖSVARY, 1950**Genus Ophryoglana** EHRENBERG, 1831*Ophryoglana flava* (EHRENBERG, 1833) CLAPARÈDE & LACHMANN, 1858*Ophryoglana flavicans* EHRENBERG, 1831*Ophryoglana hemophaga* MOLLOY, LYNN & GIAMBERINI, 2005*Ophryoglana inquieta* KAHL, 1931*Ophryoglana media* MUGARD, 1949**Subclass Apostomatia****Order Apostomatida****Genus Gymnodinioides** MINKIEWICZ, 1912*Gymnodinioides zonatum* (PENARD, 1922) CHATTON & LWOFF, 1935**Subclass Astomatia****Order Haptophryida****Genus Haptophrya** STEIN, 1867*Haptophrya planariorum* (SIEBOLD, 1839) STEIN, 1867

Genus Mesnilella CÉPÈDE, 1910*Mesnilella clavata* (LEIDY, 1855) CÉPÈDE, 1910**Subclass Peritrichia****Order Sessilida****Genus Apiosoma** BLANCHARD, 1885*Apiosoma piscicola* BLANCHARD, 1885*Apiosoma tintinnabulum* (KENT, 1881) ?STILLER, 1971**Genus Astylozoon** ENGELMANN, 1862*Astylozoon fallax* ENGELMANN, 1862*Astylozoon faurei* KAHL, 1935*Astylozoon vagans* (STILLER, 1939) DINGFELDER, 1962**Genus Campanella** GOLDFUSS, 1820*Campanella umbellaria* (LINNAEUS, 1758) GOLDFUSS, 1820**Genus Carchesium** EHRENBERG, 1831*Carchesium cyclopidarum* NENNINGER, 1948*Carchesium epistylis* CLAPARÈDE & LACHMANN, 1858*Carchesium polypinum* (LINNAEUS, 1758) EHRENBERG, 1830**Genus Cothurnia** EHRENBERG, 1831*Cothurnia annulata* STOKES, 1885*Cothurnia imberbis* EHRENBERG, 1831*Cothurnia patula* FROMENTEL, 1876*Cothurnia vaga* (SCHRANK, 1776) EHRENBERG, 1838**Genus Cyclodonta** MATTHES, 1958*Cyclodonta bipartita* (STOKES, 1885) MATTHES, 1958**Genus Daurotheca** JANKOWSKI, 1986*Daurotheca tespa* JANKOWSKI, 1986**Genus Epicarchesium** JANKOWSKI, 1985*Epicarchesium granulatum* (KELLICOTT, 1887) JANKOWSKI, 1985*Epicarchesium pectinatum* (ZACHARIAS, 1897) FOISSNER, BERGER & SCHAUMBURG, 1999**Genus Epistylis** EHRENBERG, 1830*Epistylis alpestris* FOISSNER, 1978*Epistylis anastatica* (LINNAEUS, 1767) EHRENBERG, 1831*Epistylis branchiophila* PERTY, 1852*Epistylis chrysemydis* BISHOP & JAHN, 1941*Epistylis coronata* NUSCH, 1970*Epistylis digitalis* (LINNAEUS, 1758) EHRENBERG, 1830*Epistylis entzii* STILLER, 1935*Epistylis galea* EHRENBERG, 1831*Epistylis hentscheli* KAHL, 1935*Epistylis kolbi* NENNINGER, 1948*Epistylis lacustris magna* NENNINGER, 1948*Epistylis niagarae* KELLICOTT, 1883*Epistylis nympharum* ENGELMANN, 1862

Epistylis plicatilis EHRENBERG, 1831

Epistylis procumbens ZACHARIAS, 1897

Epistylis pygmaeum (EHRENBERG, 1838) FOISSNER, BERGER & SCHAUMBURG, 1999

Epistylis sommerae SCHÖDEL, 1986

Epistylis variabilis STILLER, 1953

Genus Gerda CLAPARÈDE & LACHMANN, 1858

Gerda glans CLAPARÈDE & LACHMANN, 1858

Gerda picta (KENT, 1882) JANKOWSKI, 1976

Genus Hastatella ERLANGER, 1890

Hastatella radians ERLANGER, 1890

Hastatella aesculacantha JAROCKI & JAKUBOWSKA, 1927

Genus Heteropolaria FOISSNER & SCHUBERT, 1977

Heteropolaria lwoffii (FAURÉ-FREMIET, 1943) FOISSNER & SCHUBERT, 1977

Genus Intranstylum FAURE-FREMIET, 1904

Intranstylum eismondi KAHL, 1935

Intranstylum triformum SCHÖDEL, 1983

Genus Lagenophrys STEIN, 1852

Lagenophrys ampulla STEIN, 1852

Lagenophrys nassa STEIN, 1852

Lagenophrys vaginicola STEIN, 1852

Genus Opercularia GOLDFUSS, 1820

Opercularia archiorbopercularia FOISSNER, 1979

Opercularia articulata GOLDFUSS, 1820

Opercularia assellicola KAHL, 1935

Opercularia asymmetrica (BICZOK, 1956) AESCHT & FOISSNER, 1992

Opercularia coarctata (CLAPAREDE & LACHMANN, 1858) ROUX, 1901

Opercularia cylindrata WRZESNIEWSKIEGO, 1866

Opercularia nutans (MÜLLER, 1773) STEIN, 1854

Opercularia venusta FOISSNER, 1979

Genus Ophrydium BORY, 1826

Ophrydium caudatum (PHILLIPS, 1883) ?FOISSNER, 1977

Ophrydium eutrophicum FOISSNER, 1979

Ophrydium hyalinum WRZESNIEWSKI, 1877

Ophrydium versatile (MÜLLER, 1786) BORY, 1824

Genus Opisthnecta FAURÉ-FREMIET, 1906

Opisthnecta bivacuolata FOISSNER, 1978

Opisthnecta dubia FOISSNER, 1975

Opisthnecta henneguyi FAURÉ-FREMIET, 1906

Opisthnecta minima FOISSNER, 1975

Genus Orbopercularia LUST, 1950

Orbopercularia nodosa FOISSNER, 1979

Genus Pelagovorticella JANKOWSKI, 1980*Pelagovorticella mayeri* (FAURÉ-FREMIET, 1923) JANKOWSKI, 1980*Pelagovorticella natans* (FAURÉ-FREMIET, 1924) JANKOWSKI, 1985**Genus Platycola KENT, 1882***Platycola decumbens* (EHRENBERG, 1830) KENT, 1882*Platycola dilatata* (FROMENTEL, 1876) KENT, 1882**Genus Propygidium CORLISS, 1979***Propygidium cothurnoides* (KENT, 1881) CORLISS, 1979**Genus Pseudocarchesium SOMMER, 1951**

Remarks: *Pseudocarchesium* was established by SOMMER (1951, p. 362, 396) with six species. However, since none of these species was fixed as type species, the genus *Pseudocarchesium* SOMMER, 1951 is invalid (ICZN 1999, Article 13.3). The subsequent designation of the originally included species *Carchesium aselli* ENGELMANN, 1862 as type species of *Pseudocarchesium* SOMMER, 1951 by JANKOWSKI (1994, p. 222) is likewise invalid, because for genera established after 1930 the type species has to be fixed in the original description (ICZN 1999, Articles 13.3, 68.2). AESCHT (2001, p. 135), who incorrectly assumed that SOMMER (1951) has established the genus *Pseudocarchesium* with only three species, has classified the genus as nomen nudum. Since the genus is not correctly published so far, the “*Pseudocarchesium*”-species recorded in Austria are listed according to their original combination. *Epistylis steinii* is often incorrectly assigned to PRECHT (1935, p. 442). However, he has only transferred the species from *Epistylis* to *Carchesium*. Perhaps *Carchesium steini* sensu PRECHT (1935, p. 442) is a misidentification.

Carchesium aselli ENGELMANN, 1862*Epistylis simulans* PLATE, 1888*Epistylis steinii* WRZESNIEWSKI, 1877*Pseudocarchesium ovatum* SOMMER, 1951**Genus Pseudohaplocaulus WARREN, 1988***Pseudohaplocaulus infravacuolatus* FOISSNER & BROZEK, 1996**Genus Pseudovorticella FOISSNER & SCHIFFMANN, 1974***Pseudovorticella chlamydophora* (PENARD, 1922) JANKOWSKI, 1976*Pseudovorticella difficilis magnistriata* FOISSNER & SCHIFFMANN, 1974*Pseudovorticella elongata* (FROMENTEL, 1876) LEITNER & FOISSNER, 1997*Pseudovorticella fasciculata* (MÜLLER, 1773) FOISSNER & BROZEK, 1996*Pseudovorticella margaritata* (FROMENTEL, 1876) JANKOWSKI, 1976*Pseudovorticella monilata* (TATEM, 1870) FOISSNER & SCHIFFMANN, 1974*Pseudovorticella mutans* (PENARD, 1922) JANKOWSKI, 1976*Pseudovorticella pseudocampanula* FOISSNER, 1979*Pseudovorticella quadrata* FOISSNER, 1979*Pseudovorticella sauwaldensis* FOISSNER & SCHIFFMANN, 1979*Pseudovorticella sphagni* FOISSNER & SCHIFFMANN, 1974**Genus Pyxicola KENT, 1882***Pyxicola affinis* KENT, 1882*Pyxicola carteri* KENT, 1882*Pyxicola pusilla* KENT, 1882**Genus Rhabdostyla KENT, 1881***Rhabdostyla inclinans* (MÜLLER, 1773) ROUX, 1901

Rhabdostyla dubia FOISSNER, 1979

Rhabdostyla longipes KENT, 1881

Genus Scyphidia DUJARDIN, 1841

Scyphidia limacina (MÜLLER, 1773) LACHMANN, 1856

Scyphidia physarum LACHMANN, 1856

Scyphidia rugosa DUJARDIN, 1841

Genus Telotrochidium KENT, 1881

Telotrochidium cylindricum FOISSNER, 1978

Telotrochidium elongatum FOISSNER, 1975

Telotrochidium johanninae FAURE-FREMIET, 1950

Genus Thuricola KENT, 1881

Thuricola folliculata (MÜLLER, 1786) KENT, 1881

Thuricola kellicottiana (STOKES, 1887) KAHL, 1935

Genus Usconophrys JANKOWSKI, 1985

Usconophrys aperta (PLATE, 1888) JANKOWSKI, 1985

Genus Vaginicola LAMARCK, 1816

Vaginicola crystallina EHRENBERG, 1830

Vaginicola ingenita (MÜLLER, 1786) LAMARCK, 1816

Vaginicola tincta EHRENBERG, 1830

Genus Vorticella LINNAEUS, 1767

Vorticella abbreviata KEISER, 1921

Vorticella alpestris FOISSNER, 1979

Vorticella campanula EHRENBERG, 1831

Vorticella chlorellata STILLER, 1940

Vorticella chlorostigma (EHRENBERG, 1831) EHRENBERG, 1838

Vorticella citrina MÜLLER, 1773

Vorticella constricta FROMENTEL, 1876

Vorticella convallaria-Komplex

Vorticella costata SOMMER, 1951

Vorticella cupifera KAHL, 1935

Vorticella extensa KAHL, 1935

Vorticella gracilis DUJARDIN, 1841

Vorticella kenti KAHL, 1935

Vorticella longifilum KENT, 1881

Vorticella microstoma-Komplex

Vorticella nutans MÜLLER, 1773

Vorticella octava-Komplex

Vorticella operculariformis FOISSNER, 1979

Vorticella picta (EHRENBERG, 1831) EHRENBERG, 1838

Vorticella putrina MÜLLER, 1776

Vorticella sepulcreti FOISSNER & SCHIFFMANN, 1975

Vorticella similis STOKES, 1887

Vorticella striata DUJARDIN, 1841

Vorticella utriculus STOKES, 1885

Vorticella vaga RÖMER, 1893

Vorticella vernalis STOKES, 1887

Genus Vorticellides FOISSNER, BLAKE, WOLF, BREINER & STOECK, 2009

Vorticellides aquadulcis (STOKES, 1887) FOISSNER, BLAKE, WOLF, BREINER & STOECK, 2009

Vorticellides astyliformis (FOISSNER, 1981) FOISSNER, BLAKE, WOLF, BREINER & STOECK, 2009

Vorticellides infusionum (DUJARDIN, 1841) FOISSNER, BLAKE, WOLF, BREINER & STOECK, 2009

Genus Zoothamnium BORY, 1826

Zoothamnium affine STEIN, 1854

Zoothamnium arbuscula (EHRENBERG, 1831) EHRENBERG, 1838

Zoothamnium aselli CLAPARÈDE & LACHMANN, 1858

Zoothamnium duplicatum KAHL, 1933

Zoothamnium elegans D'UDEKEM, 1864

Zoothamnium gammari KORFSMEIER, 1943

Zoothamnium kentii GRENFELL, 1884

Zoothamnium parasita STEIN, 1854

Zoothamnium procerius KAHL, 1935

Order Mobilida

Genus Pallitrichodina VAN AS & BASSON in AESCHT, 2001

Pallitrichodina stephani (VAN AS & BASSON, 1993) AESCHT, FOISSNER, BLATTERER, KOHMANN & BERGER, 2017

Remarks: The present species (original combination *Pallitrichodina stephani* VAN AS & BASSON, 1993) was established in the invalid genus *Pallitrichodina* VAN AS & BASSON, 1993 and was not combined with the valid genus *Pallitrichodina* VAN AS & BASSON in AESCHT, 2001 so far (for details on invalidity of *Pallitrichodina* VAN AS & BASSON, 1993 due to lack of type fixation, see AESCHT 2001, p. 113). This purely nomenclatural act was done in the German edition of the Fauna Aquatica Austriaca (AESCHT ET AL. 2017).

Genus Trichodina EHRENBERG, 1830

Trichodina domerguei megamicronucleata DOGIEL, 1940

Trichodina pediculus EHRENBERG, 1831

Genus Urceolariella CORLISS, 1977

Urceolariella mitra (SIEBOLD, 1850) CORLISS, 1977

Saprobic valencies								
	S ¹	x	o	β	α	p	G	SI
Acineria								
<i>A. incurvata</i> ²	p-i	-	-	-	3	7	4	3.7E
<i>A. uncinata</i>	a-p	-	-	2	4	4	2	3.2
Acineta								
<i>A. flava</i>	b	-	1	7	2	-	3	2.1
<i>A. grandis</i>	b-o	-	3	5	2	-	2	1.9
<i>A. tuberosa</i>	a-b	-	-	4	4	2	2	2.8
Actinobolina								
<i>A. radians</i>	b	-	1	7	2	-	3	2.1
<i>A. vorax</i>	o	-	7	3	-	-	4	1.3
Amphileptus								
<i>A. carchesii</i>	a	-	-	1	8	1	4	3.0
<i>A. clapedii</i>	a	-	-	2	8	-	4	2.8
<i>A. pleurosigma</i>	b-a	-	-	5	5	-	3	2.5
<i>A. procerus</i>	b-a	-	-	5	5	-	3	2.5
<i>A. punctatus</i>	a	-	-	1	9	-	5	2.9
Askenasia								
<i>A. volvox</i>	b	-	1	6	3	-	3	2.2
Aspidisca								
<i>A. cicada</i>	a-b	-	-	4	5	1	2	2.7
<i>A. lynceus</i>	b-a	-	1	4	4	1	1	2.5
<i>A. turrita</i>	a-b	-	-	4	6	-	3	2.6
Astylozoon								
<i>A. fallax</i>	b-a	-	-	5	5	-	3	2.5
<i>A. faurei</i>	b-a	-	-	5	5	-	3	2.5
Balanion								
<i>B. planctonicum</i>	o	-	7	3	-	-	4	1.3
Blepharisma								
<i>B. coeruleum</i>	b	-	2	8	-	-	4	1.8
<i>B. lateritium</i>	b	-	2	8	-	-	4	1.8
Bothrostoma								
<i>B. undulans</i> ²	p-m	-	-	-	-	10	5	4.0E
Brachonella								
<i>B. spiralis</i> ²	p-m	-	-	-	-	10	5	4.0E
Bursaria								
<i>B. truncatella</i>	b-a	-	2	4	3	1	1	2.3
Bursaridium								
<i>B. pseudobursaria</i>	o-b	-	6	4	-	-	3	1.4
Bursellopsis								
<i>B. spumosa</i>	o	-	7	3	-	-	4	1.3

	S ¹	x	o	β	α	p	G	SI
Caenomorpha								
<i>C. spp.</i> ²	p-m	-	-	-	-	10	5	4.0E
Calypotricha								
<i>C. lanuginosa</i>	a	-	-	3	7	-	4	2.7
Campanella								
<i>C. umbellaria</i>	a-b	-	-	3	6	1	3	2.8
Carchesium								
<i>C. pectinatum</i>	o-b	-	6	4	-	-	3	1.4
<i>C. polypinum</i>	a	-	-	2	7	1	3	2.9
Chaenea								
<i>C. stricta</i>	b-a	-	-	5	5	-	3	2.5
Chaetospira								
<i>C. muelleri</i>	b	-	1	8	1	-	4	2.0
<i>C. remex</i>	b-a	-	1	5	4	-	2	2.3
Chilodonella								
<i>C. uncinata</i>	a	-	-	2	6	2	3	3.0
Chilodontopsis								
<i>C. depressa</i>	b	-	1	7	2	-	3	2.1
Chlamydonella								
<i>C. alpestris</i>	b-a	-	2	4	4	-	2	2.2
Chlamydonellopsis								
<i>C. plurivacuolata</i>	b-a	-	-	5	5	-	3	2.5
Cinetochilum								
<i>C. margaritaceum</i>				eusaprobic				
Climacostomum								
<i>C. virens</i>	b	-	-	8	2	-	4	2.2
Codonella								
<i>C. cratera</i>	b-o	-	4	6	-	-	3	1.6
Coleps								
<i>C. hirtus</i>	a-b	-	1	3	4	2	1	2.7
<i>C. nolandi</i>	o-a	-	3	4	3	-	2	2.0
<i>C. spetai</i>	b	-	2	6	2	-	3	2.0
Colpidium								
<i>C. colpoda</i> ²	p-i	-	-	-	2	8	4	3.8E
<i>C. kleini</i>	p	-	-	-	3	7	4	3.7
Colpoda								
<i>C. cucullus</i>	p-a	-	-	-	4	6	3	3.6
<i>C. ecaudata</i> ²	p-i	-	-	-	1	9	5	3.9E
<i>C. inflata</i>	a-p	-	-	-	5	5	3	3.5
<i>C. magna</i>	a-p	-	-	2	5	3	2	3.1
<i>C. steinii</i> ³	a-p	-	-	-	5	5	3	3.5
<i>C. steinii</i> ⁴	b-a	-	2	4	3	1	1	2.3
Cothurnia								
<i>C. annulata</i>	o-b	-	6	4	-	-	3	1.4

	S ¹	x	o	β	α	p	G	SI
Ctedoctema								
<i>C. acanthocryptum</i>	b-a	-	1	4	4	1	1	2.5
Cyclidium								
<i>C. glaucoma</i>	a	-	-	1	7	2	3	3.1
<i>C. heptatrichum</i>	b	-	-	8	2	-	4	2.2
Cyrtolophosis								
<i>C. mucicola</i>	b-p	-	1	2	4	3	1	2.9
Dendrosoma								
<i>D. radians</i>	b-a	-	-	5	5	-	3	2.5
Dexiostoma								
<i>D. campylum</i> ²	p-i	-	-	-	1	9	5	3.9E
Dexiotricha								
<i>D. granulosa</i>	a-p	-	-	-	5	5	3	3.5
Dexiotrichides								
<i>D. centralis</i> ²	p-i	-	-	-	-	10	5	4.0E
Didinium								
<i>D. nasutum</i>	a-b	-	-	4	4	2	2	2.8
Dileptus								
<i>D. margaritifer</i>	b	-	2	5	3	-	2	2.1
Discomorphella								
<i>D. pectinata</i> ²	p-m	-	-	-	-	10	5	4.0E
Disematostoma								
<i>D. buetschlii</i>	b	-	1	7	2	-	3	2.1
<i>D. tetradricum</i>	b	-	-	10	-	-	5	2.0
Drepanomonas								
<i>D. revoluta</i>	a-p	-	-	-	5	5	3	3.5
Dysteria								
<i>D. fluviatilis</i>	b	-	-	8	2	-	4	2.2
Enchelyodon								
<i>E. elegans</i>	a	-	-	-	10	-	5	3.0
Enchelyomorpha								
<i>E. vermicularis</i> ²	p-m	-	-	-	-	10	5	4.0E
Enchelys								
<i>E. gasterosteus</i>	b-a	-	-	5	5	-	3	2.5
Epalxella								
<i>E. spp.</i> ²	p-m	-	-	-	-	10	5	4.0E
Epenardia								
<i>E. myriophylli</i>	a-p	-	-	2	4	4	2	3.2
Epistylis								
<i>E. chrysemydis</i>	a	-	-	2	6	2	3	3.0
<i>E. coronata</i>	a	-	-	-	10	-	5	3.0
<i>E. digitalis</i>	o-b	-	5	5	-	-	3	1.5
<i>E. entzii</i>	a	-	-	2	7	1	3	2.9
<i>E. galea</i>	a	-	-	3	7	-	4	2.7
<i>E. hentscheli</i>	a-b	-	-	3	6	1	3	2.8

	S ¹	x	o	β	α	p	G	SI
<i>E. nymphaeum</i>	o-a	-	3	4	3	-	2	2.0
<i>E. plicatilis</i>	a-b	-	-	3	6	1	3	2.8
<i>E. procumbens</i>	o-b	-	5	5	-	-	3	1.5
Euplotes								
<i>E. aediculatus</i>	a	-	-	1	9	-	5	2.9
<i>E. affinis</i>	b-a	-	-	5	4	1	2	2.6
<i>E. eurystomus</i>	a	-	-	2	6	2	3	3.0
<i>E. moebiusi</i>	a	-	-	2	7	1	3	2.9
<i>E. patella</i>	b	-	-	7	3	-	4	2.3
Frontonia								
<i>F. acuminata</i>	b-a	-	2	4	4	-	2	2.2
<i>F. angusta</i>	b-a	-	-	5	5	-	3	2.5
<i>F. atra</i>	b-a	-	-	5	5	-	3	2.5
<i>F. leucas</i>	b-a	-	2	3	3	2	1	2.5
Gastronauta								
<i>G. clatratus</i>	b-a	-	2	4	4	-	2	2.2
<i>G. membranaceus</i>	b	-	2	6	2	-	3	2.0
Gastrostyla								
<i>G. mystacea</i>	p	-	-	-	3	7	4	3.7
<i>G. steinii</i>	a	-	-	2	7	1	3	2.9
Glaucoma								
<i>G. reniforme</i>	p	-	-	-	2	8	4	3.8
<i>G. scintillans</i> ⁵	p-a	-	-	-	4	6	3	3.6
Halteria								
<i>H. chlorelligera</i>	o	-	8	2	-	-	4	1.2
<i>H. grandinella</i>	b-a	-	1	6	3	-	3	2.2
Hastatella								
<i>H. radians</i>	b-a	-	1	6	3	-	3	2.2
Heliophrya								
<i>H. minima</i>	b-a	-	-	5	5	-	3	2.5
<i>H. rotunda</i>	b-a	-	-	5	5	-	3	2.5
Hexotricha								
<i>H. caudata</i> ²	p-m	-	-	-	-	10	5	4.0E
Histriculus								
<i>H. vorax</i>	a	-	-	-	10	-	5	3.0
Holophrya								
<i>H. discolor</i>	a-b	-	-	4	4	2	2	2.8
<i>H. ovum</i>	a-p	-	-	1	6	3	3	3.2
<i>H. teres</i>	b-p	-	-	3	4	3	2	3.0
Holosticha								
<i>H. kessleri</i>	a-b	-	-	4	5	1	2	2.7
<i>H. monilata</i>	a-b	-	-	3	6	1	3	2.8
<i>H. multistilata</i>	a-b	-	-	4	5	1	2	2.7
<i>H. pullaster</i>	b-a	-	1	4	4	1	1	2.5

	S ¹	x	o	β	α	p	G	SI
Homalozoon								
<i>H. vermiculare</i>	b-a	-	2	4	4	-	2	2.2
Hypotrichidium								
<i>H. conicum</i>	b-p	-	-	3	4	3	2	3.0
Kahlilembus								
<i>K. attenuatus</i>	b	-	-	10	-	-	5	2.0
Kerona								
<i>K. pediculus</i>	b-o	-	4	5	1	-	2	1.7
Lacrymaria								
<i>L. olor</i>	b	-	2	6	2	-	3	2.0
Lagenophrys								
<i>L. vaginicola</i>	o	-	9	1	-	-	5	1.1
Lagynophrya								
<i>L. acuminata</i>	o	-	8	2	-	-	4	1.2
Lagynus								
<i>L. elegans</i> ²	p-i	-	-	-	-	10	5	4.0E
Lembadion								
<i>L. bullinum</i>	b	-	-	9	1	-	5	2.1
<i>L. lucens</i>	b-a	-	-	6	4	-	3	2.4
<i>L. magnum</i>	b	-	2	8	-	-	4	1.8
Leptopharynx								
<i>L. costatus</i>	o-a	-	3	4	3	-	2	2.0
Linostoma								
<i>L. vorticella</i>	b-a	-	1	6	3	-	3	2.2
Litonotus								
<i>L. alpestris</i>	b-a	-	-	4	6	-	3	2.6
<i>L. crystallinus</i>	b-a	-	-	5	5	-	3	2.5
<i>L. cygnus</i>	b	-	-	10	-	-	5	2.0
<i>L. fusidens</i>	b-p	-	-	3	4	3	2	3.0
<i>L. lamella</i>	a	-	-	2	8	-	4	2.8
<i>L. varsaviensis</i> ^{2,6}	p-i	-	-	-	1	9	5	3.9E
<i>L. varsaviensis</i> ^{2,7}	b-a	-	-	5	5	-	3	2.5
Loxocephalus								
<i>L. luridus</i> ²	p-i	-	-	-	3	7	4	3.7E
Loxodes								
<i>L. spp.</i>	p	-	-	-	2	8	4	3.8
Loxophyllum								
<i>L. helus</i>	b	-	-	10	-	-	5	2.0
<i>L. meleagris</i>	b	-	-	8	2	-	4	2.2
<i>L. utriculariae</i>	b	-	1	8	1	-	4	2.0
Marituja								
<i>M. pelagica</i>	o	-	8	2	-	-	4	1.2
Mesodinium								
<i>M. acarus</i>	b	-	2	6	2	-	3	2.0
<i>M. pulex</i>	b	-	2	6	2	-	3	2.0

	S ¹	x	o	β	α	p	G	SI
Metacineta								
<i>M. cuspidata</i>	b-a	-	-	5	5	-	3	2.5
<i>M. mystacina</i>	b-a	-	-	5	5	-	3	2.5
Metopus								
<i>M. spp. sensu lato</i> ²	p-m	-	-	-	-	10	5	4.0E
Microthorax								
<i>M. pusillus</i>	a	-	-	2	8	-	4	2.8
Monilicaryon								
<i>M. monilatus</i>	b	-	-	7	3	-	4	2.3
Monodinium								
<i>M. balbianii</i>	o-a	-	3	3	4	-	2	2.1
Nassula								
<i>N. ornata</i>	b	-	2	6	2	-	3	2.0
<i>N. picta</i>	b	-	2	6	2	-	3	2.0
Nassulopsis								
<i>N. elegans</i>	b	-	1	8	1	-	4	2.0
Obertrumia								
<i>O. aurea</i>	b-a	-	-	6	4	-	3	2.4
Odontochlamys								
<i>O. alpestris</i>	b-a	-	-	5	5	-	3	2.5
Opercularia								
<i>O. articulata</i>	a-b	-	1	3	5	1	1	2.6
<i>O. coarctata</i>	a	-	-	2	7	1	3	2.9
<i>O. nutans</i>	b-a	-	-	5	5	-	3	2.5
Ophrydium								
<i>O. crassicaule</i>	b-a	-	-	5	5	-	3	2.5
<i>O. eutrophicum</i>	b-a	-	1	6	3	-	3	2.2
<i>O. sessile</i>	a-b	-	2	3	5	-	2	2.3
<i>O. versatile</i>	o	-	8	2	-	-	4	1.2
Ophryoglena								
<i>O. spp.</i>			not classified					
Opisthonecta								
<i>O. henneguyi</i>	b-p	-	-	3	4	3	2	3.0
Oxytricha								
<i>O. chlorelligera</i>	a	-	-	-	10	-	5	3.0
<i>O. fallax</i>	a	-	-	1	8	1	4	3.0
<i>O. ferruginea</i>	o	-	7	3	-	-	4	1.3
<i>O. haematoplasma</i>	b-a	-	-	6	4	-	3	2.4
<i>O. hymenostoma</i>	p	-	-	-	2	8	4	3.8
<i>O. saprobia</i>	a-p	-	-	-	6	4	3	3.4
<i>O. setigera</i>	a-b	-	-	4	6	-	3	2.6
<i>O. similis</i>	b-a	-	-	5	5	-	3	2.5
Paracolpidium								
<i>P. truncatum</i>	a	-	-	2	6	2	3	3.0

	S ¹	x	o	β	α	p	G	SI
Paradileptus								
<i>P. elephantinus</i>	b	-	3	6	1	-	3	1.8
Paramecium								
<i>P. aurelia</i> -Komplex	a-b	-	-	3	5	2	2	2.9
<i>P. bursaria</i>	b-a	-	-	6	3	1	3	2.5
<i>P. caudatum</i>	p-a	-	-	-	4	6	3	3.6
<i>P. putrinum</i>	p	-	-	1	2	7	3	3.6E
Parapodophrya								
<i>P. soliformis</i>	p	-	-	-	1	9	5	3.9
Paraurostyla								
<i>P. viridis</i>	b-a	-	-	5	5	-	3	2.5
<i>P. weissei</i>	a	-	-	2	7	1	3	2.9
Pelagohalteria								
<i>P. cirrifera</i>	o-b	-	6	4	-	-	3	1.4
Pelodinium								
<i>P. reniforme</i> ²	p-m	-	-	-	-	10	5	4.0E
Phascolodon								
<i>P. vorticella</i>	b-a	-	-	6	4	-	3	2.4
Phialina								
<i>P. spp.</i>			not classified					
Philasterides								
<i>P. armatus</i>	b-a	-	-	5	5	-	3	2.5
Placus								
<i>P. luciae</i>	b-o	-	4	4	2	-	2	1.8
Plagiocampa								
<i>P. rouxi</i>	a-b	-	-	4	6	-	3	2.6
Plagiopyla								
<i>P. nasuta</i> ²	p-i	-	-	-	-	10	5	4.0E
Platycola								
<i>P. decumbens</i>	b-a	-	2	4	4	-	2	2.2
Platynematum								
<i>P. sociale</i>	p	-	-	-	3	7	4	3.7
Platyophrya								
<i>P. vorax</i> ²	p-i	-	-	-	-	10	5	4.0E
Pleuronema								
<i>P. coronatum</i>	b	-	-	7	3	-	4	2.3
<i>P. crassum</i>	b-a	-	2	4	3	1	1	2.3
Pleurotricha								
<i>P. grandis</i>	b	-	-	10	-	-	5	2.0
Podophrya								
<i>P. fixa</i>	a	-	-	1	7	2	3	3.1
<i>P. maupasii</i>	a	-	-	1	9	-	5	2.9
Prodiscophrya								
<i>P. collini</i>	a-p	-	-	1	5	4	2	3.3

	S ¹	x	o	β	α	p	G	SI
Prorodon								
<i>P. ellipticus</i>	b-a	-	-	5	5	-	3	2.5
<i>P. niveus</i>	b-o	-	3	6	1	-	3	1.8
Pseudoblepharisma								
<i>P. tenue</i>	p	-	-	-	3	7	4	3.7
Pseudochilodonopsis								
<i>P. algivora</i> ³	a	-	-	-	10	-	5	3.0
<i>P. algivora</i> ⁴	a-b	-	-	5	5	-	3	2.5
<i>P. fluviatilis</i>	b-a	-	-	5	3	2	2	2.7
<i>P. piscatoris</i>	b	-	-	7	3	-	4	2.3
Pseudocohnilembus								
<i>P. pusillus</i> ²	p-i	-	-	-	3	7	4	3.7E
Pseudomicrothorax								
<i>P. agilis</i>	b	-	1	8	1	-	4	2.0
Pseudovorticella								
<i>P. chlamydothorax</i>	b-a	-	-	5	5	-	3	2.5
<i>P. monilata</i>	b-a	-	1	5	4	-	2	2.3
Pyxicola								
<i>P. carteri</i>	o-b	-	5	5	-	-	3	1.5
Rhabdostyla								
<i>R. inclinans</i>	a	-	-	-	10	-	5	3.0
Saprodinium								
<i>S. spp.</i> ²	p-m	-	-	-	-	10	5	4.0E
Sathrophilus								
<i>S. muscorum</i>	b-a	-	-	5	5	-	3	2.5
Scyphidia								
<i>S. rugosa</i>	a	-	-	-	8	2	4	3.2
Spathidium								
<i>S. sensu lato</i>			not classified					
Sphaerophrya								
<i>S. magna</i>	p	-	-	-	2	8	4	3.8
Spirostomum								
<i>S. ambiguum</i>	a	-	-	2	6	2	3	3.0
<i>S. caudatum</i>	o-b	-	6	4	-	-	3	1.4
<i>S. minus</i>	a-b	-	-	3	6	1	3	2.8
<i>S. teres</i>	p	-	-	1	2	7	3	3.6
Staurophrya								
<i>S. elegans</i>	o-a	-	3	4	3	-	2	2.0
Steinia								
<i>S. platystoma</i>	b-a	-	-	6	4	-	3	2.4
Stentor								
<i>S. amethystinus</i>	b	-	2	6	2	-	3	2.0
<i>S. coeruleus</i>	a-b	-	-	4	6	-	3	2.6
<i>S. igneus</i>	b	-	-	7	3	-	4	2.3
<i>S. muelleri</i>	b-a	-	-	5	5	-	3	2.5

	S ¹	x	o	β	α	p	G	SI
<i>S. multiformis</i>	b-a	-	-	5	5	-	3	2.5
<i>S. niger</i>	o-b	-	6	4	-	-	3	1.4
<i>S. polymorphus</i>	b-a	-	-	5	5	-	3	2.5
<i>S. roeselii</i>	a-b	-	1	4	5	-	2	2.4
Sterkiella								
<i>S. histriomuscorum</i>	a	-	-	2	6	2	3	3.0
Stichotricha								
<i>S. aculeata</i>	b-a	-	1	5	4	-	2	2.3
<i>S. secunda</i>	o	-	7	3	-	-	4	1.3
Stokesia								
<i>S. vernalis</i>	b	-	3	7	-	-	4	1.7
Strobilidium								
<i>S. caudatum</i>	o-b	-	5	5	-	-	3	1.5
<i>S. humile</i>	b	-	2	8	-	-	4	1.8
Strombidium								
<i>S. viride</i>	b	-	1	8	1	-	4	2.0
Stylonychia								
<i>S. mytilus</i> -Komplex	a	-	-	1	9	-	5	2.9
<i>S. pustulata</i>	b	-	1	7	2	-	3	2.1
<i>S. putrina</i>	a	-	-	2	7	1	3	2.9
<i>S. stylomuscorum</i>	b	-	-	10	-	-	5	2.0
<i>S. vorax</i>	b	-	-	10	-	-	5	2.0
Tachysoma								
<i>T. bicirratum</i>	a-p	-	-	2	4	4	2	3.2
<i>T. pellionellum</i>	b-a	-	1	4	4	1	1	2.5
Tetrahymena								
<i>T. pyriformis</i> -Komplex ²	p-i	-	-	-	3	7	4	3.7E
Thigmogaster								
<i>T. oppositevacuolatus</i>	a-b	-	-	3	5	2	2	2.9
<i>T. potamophilus</i>	b-a	-	-	5	5	-	3	2.5
Thuricola								
<i>T. folliculata</i>	b	-	2	6	2	-	3	2.0
<i>T. kellicottiana</i>	b	-	2	7	1	-	3	1.9
<i>T. vasiformis</i>	a	-	-	-	10	-	5	3.0
Tintinnidium								
<i>T. fluviatile</i>	o-b	-	5	5	-	-	3	1.5
<i>T. pusillum</i>	b	-	-	8	2	-	4	2.2
<i>T. semiciliatum</i>	b	-	2	6	2	-	3	2.0
Tintinnopsis								
<i>T. cylindrata</i>	b	-	-	7	3	-	4	2.3
Tokophrya								
<i>T. carchesii</i>	a	-	-	2	7	1	3	2.9
<i>T. infusionum</i>	b-a	-	2	5	3	-	2	2.1
<i>T. lemnarum</i>	a	-	-	1	7	2	3	3.1
<i>T. quadripartita</i>	a-b	-	-	3	5	2	2	2.9

	S ¹	x	o	β	α	p	G	SI
Trachelius								
<i>T. ovum</i>	a-b	-	1	4	4	1	1	2.5
Trachelophyllum								
<i>T. apiculatum</i>	b-a	-	-	5	5	-	3	2.5
Trichodina								
<i>T. pediculus</i>	b	-	2	6	2	-	3	2.0
Trimyema								
<i>T. compressum</i> ²	p-m	-	-	-	2	8	4	3.8E
Trithigmostoma								
<i>T. cucullulus</i>	a-p	-	-	2	5	3	2	3.1
<i>T. srameki</i>	b-a	-	1	6	3	-	3	2.2
<i>T. steini</i>	b-a	-	1	6	3	-	3	2.2
Trochilia								
<i>T. minuta</i>	b-a	-	-	5	5	-	3	2.5
Trochilioides								
<i>T. recta</i>	a	-	-	-	10	-	5	3.0
Tropidoatractus								
<i>T. acuminatus</i> ²	p-m	-	-	-	-	10	5	4.0E
Urocentrum								
<i>U. turbo</i>	a-b	-	-	4	4	2	2	2.8
Uroleptus								
<i>U. gallina</i>	b	-	-	10	-	-	5	2.0
<i>U. musculus</i>	a	-	-	1	8	1	4	3.0
<i>U. piscis</i>	a	-	-	3	7	-	4	2.7
<i>U. rattulus</i>	b	-	-	10	-	-	5	2.0
Uronema								
<i>U. nigricans</i>	a-p	-	-	1	6	3	3	3.2
Urostyla								
<i>U. grandis</i>	a	-	-	3	7	-	4	2.7
Urotricha								
<i>U. agilis</i>	b-a	-	-	5	5	-	3	2.5
<i>U. armata</i>	a	-	-	2	8	-	4	2.8
<i>U. farcta</i>	a-b	-	-	4	6	-	3	2.6
<i>U. furcata</i>	b	-	2	6	2	-	3	2.0
<i>U. globosa</i>	b	-	-	7	3	-	4	2.3
<i>U. ovata</i>	a-p	-	-	-	6	4	3	3.4
Urozona								
<i>U. buetschlii</i> ²	p	-	-	-	2	8	4	3.8E
Vaginicola								
<i>V. ingenta</i>	b	-	2	6	2	-	3	2.0
<i>V. tineta</i>	o-b	-	5	5	-	-	3	1.5
Vorticella								
<i>V. aquadulcis</i> -Komplex	b-a	-	2	5	3	-	2	2.1
<i>V. campanula</i>	a-b	-	1	4	5	-	2	2.4
<i>V. convallaria</i> -Komplex	a	-	1	2	6	1	2	2.7

	S ¹	x	o	β	α	p	G	SI
<i>V. fromenteli</i>	a	-	-	2	8	-	4	2.8
<i>V. infusionum</i> -Komplex ²	p-a	-	-	1	4	5	2	3.4E
<i>V. marginata</i>	b	-	2	8	-	-	4	1.8
<i>V. mayeri</i>	b	-	-	10	-	-	5	2.0
<i>V. microstoma</i> -Komplex ²	p-a	-	-	-	5	5	3	3.5E
<i>V. natans</i>	b	-	3	7	-	-	4	1.7
<i>V. octava</i> -Komplex	b-a	-	2	4	4	-	2	2.2
<i>V. picta</i>	b	-	2	6	2	-	3	2.0
Zoothamnium								
<i>Z. arbuscula</i>	b-a	-	1	6	3	-	3	2.2
<i>Z. kentii</i>	b-a	-	-	5	5	-	3	2.5
<i>Z. procerius</i>	b-a	-	-	5	5	-	3	2.5
Zosterodasys								
<i>Z. transversa</i>	b	-	1	7	2	-	3	2.1

¹: The verbal classification of the indicator organisms (S) is not uniform in SLADECEK et al. (1981) as well as other publications. The corrections herein are made without comment.

²: Species marked with an "E" are also classified within the table "eusaprobity".

³: If found as very abundant or in masses.

⁴: For single finds or occurring with low abundance.

⁵: Only useful as an indicator if it occurs with moderate abundance.

⁶: This animal is so categorized when it is found in low to mass abundances and the biological river water quality class corresponds to one with chemical loading.

⁷: This animal is so categorized when it is found in low to moderately high abundances and the biological river water quality class corresponds to one with chemical loading.

Definition of higher saprobic levels see introduction Edition 2002, page 41/42

	Eusaprobity							
	S ¹	α	p	i	m	h	G	SI
Acinertia								
<i>A. incurvata</i>	a-i	3	4	3	-	-	2	4.0
Bothrostoma								
<i>B. undulans</i>	m-i	-	1	4	5	-	2	5.4
Brachonella								
<i>B. spiralis</i>	m-i	-	1	4	5	-	2	5.4
Caenomorphia								
<i>C. spp.</i>	m-i	-	1	4	5	-	2	5.4
Colpidium								
<i>C. colpoda</i>	p-i	2	5	3	-	-	2	4.1
Colpoda								
<i>C. ecaudata</i>	p-i	1	6	3	-	-	3	4.2
Dexiostoma								
<i>D. campylum</i>	p-i	1	6	3	-	-	3	4.2
Dexiotrichides								
<i>D. centralis</i>	p-i	-	5	5	-	-	3	4.5
Discomorphella								
<i>D. pectinata</i>	m-i	-	1	4	5	-	2	5.4
Enchelyomorpha								
<i>E. vermicularis</i>	m-i	-	1	3	6	-	3	5.5
Epalxella								
<i>E. spp.</i>	m-i	-	1	4	5	-	2	5.4
Hexotricha								
<i>H. caudata</i>	p-m	-	3	4	3	-	2	5.0
Lagynus								
<i>L. elegans</i>	p-i	-	5	5	-	-	3	4.5
Litonotus								
<i>L. varsaviensis</i>	p-i	1	5	4	-	-	2	4.3
Loxocephalus								
<i>L. luridus</i>	a-i	3	4	3	-	-	2	4.0
Metopus								
<i>M. spp. sensu lato</i>	m-i	-	1	4	5	-	2	5.4
Paramecium								
<i>P. putrinum</i>	a-i	3	4	3	-	-	2	4.0
Pelodinium								
<i>P. reniforme</i>	m-i	-	1	4	5	-	2	5.4
Plagiopyla								
<i>P. nasuta</i>	p-i	-	5	5	-	-	3	4.5
Platyophrya								
<i>P. vorax</i>	p-i	-	5	5	-	-	3	4.5

	S ¹	α	p	i	m	h	G	SI
Pseudocohnilembus								
<i>P. pusillus</i>	a-i	3	4	3	-	-	2	4.0
Saprodinium								
<i>S. spp.</i>	m-i	-	1	4	5	-	2	5.4
Tetrahymena								
<i>T. pyriformis</i> -Komplex	a-i	3	4	3	-	-	2	4.0
Trimyema								
<i>T. compressum</i>	p-m	2	2	3	3	-	1	4.7
Tropidoatractus								
<i>T. acuminatus</i>	m-i	-	1	4	5	-	2	5.4
Urozona								
<i>U. buetschlii</i>	p-i	2	4	4	-	-	2	4.2
Vorticella								
<i>V. infusionum</i> -Komplex	a	5	2	2	1	-	1	3.9
<i>V. microstoma</i> -Komplex	a-p	5	3	2	-	-	2	3.7

¹: The verbal classification of the indicator organisms (S) is not uniform in SLADECEK et al. (1981) as well as other publications. The corrections herein are made without comment.

	Biomass		Occurrence			Community ³	Saprobity ⁴
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat		
Acineria							
<i>A. incurvata</i>	55	R	he	F,S,K	A,B	COL,HBE	p-i
<i>A. uncinata</i>	10	R	os	F,S,K	A,B	COL,NBE	a-p
Acineta							
<i>A. flava</i>	30	R	oe?	F,S	A,T		b
<i>A. grandis</i>	150	R	oe?	F,S	A,T		b-o
<i>A. tuberosa</i>	20	R	he	S,F,K	A,T		a-b
Actinobolina							
<i>A. radians</i>	125	R	oe?	S,F	P,A		b
<i>A. vorax</i>	250	R	oms?	S	P		o
Amphileptus							
<i>A. carchesii</i>	200	R	os	S,F	A	CAR	a
<i>A. claparedii</i>	60	R	he?	S,F	A	CAR	a
<i>A. pleurosigma</i>	150	R	oms	S,F	A,B	STE	b-a
<i>A. procerus</i>	160-1500	R	os	S,F	B		b-a
<i>A. punctatus</i>	80	R	os	S,F	A,B		a
Askenasia							
<i>A. volvox</i>	35	Al,Ki	oe?	S,F	P	OLI	b
Aspidisca							
<i>A. cicada</i>	10	Ba	he?	F,S,K	B,A	TRI,CYR,NBE	a-b
<i>A. lynceus</i>	17	Ba	ome?	F,S,K	B,A	TRI,CYR,NBE	b-a
<i>A. turrita</i>	7	Ba	he	F,S,K	B,A	NBE	a-b
Astylozoon							
<i>A. fallax</i>	30	Ba	os	S	P	MAR	b-a
<i>A. faurei</i>	50	Ba	oms?	S,F	P	MAR	b-a
Balanion							
<i>B. planctonicum</i>	0.3-3.6	Al	os	S	P	OLI	o

	Biomass			Occurrence			
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
Blepharisma							
<i>B. coeruleum</i>	250	Al (O)	os	S,F	B		b
<i>B. lateritium</i>	250	Ba,Al	os	S	B,P		b
Bursaria							
<i>B. truncatella</i>	50000	O	ome?	S,F	B,P		b-a
Bursaridium							
<i>B. pseudobursaria</i>	342	Al	os	S,F	P		o-b
Bursellopsis							
<i>B. spumosa</i>	18000	O	os	S,F	P		o
Caenomorpha							
<i>C. spp.</i>	120 ⁵	Ba,Sb	os	S,F,K	Fs	MET	p-m
Calypotricha							
<i>C. lanuginosa</i>	5	Ba,Al,Fl	ome	S,F	B,A	TRI	a
Campanella							
<i>C. umbellaria</i>	850	Ba	oms	S,F	A,B,T	CAR	a-b
Carchesium							
<i>C. pectinatum</i>	60	Ba?	he?	S,F	P		o-b
<i>C. polypinum</i>	150	Ba	oe	F,S,K	B,A,T	TRI,CAR,NBE	a
Chaenea							
<i>C. stricta</i>	10	Ba	os	F,S	B,A		b-a
Chaetospira							
<i>C. muelleri</i>	80	Ba,Ki,Fl	he	S,F	B,A		b
<i>C. remex</i>	250	Ba,Fl,Ki	oe	S,F	A,B		b-a
Chilodonella							
<i>C. uncinata</i>	11	Ba	he?	F,S,K,Bo	A,B	TRI,CYR,NBE	a
Chilodontopsis							
<i>C. depressa</i>	10	Ba,Al,Ki	he	F,S	A,B	PLE,CYR	b

	Biomass		Occurrence				
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
Chlamydonella							
<i>C. alpestris</i>	3	Ki,Ba	os	F,S,Bo	A,B	CYR	b-a
Chlamydonellopsis							
<i>C. plurivacuolata</i>	50	Ki	os	F	A,B	STE,CYR	b-a
Cinetochilum							
<i>C. margaritaceum</i>	5	Ba,Al	ome (he?)	S,F	A,B,P	NBE	10
Climacostomum							
<i>C. virens</i>	500	O	he?	S,F	B,P	MOO	b
Codonella							
<i>C. cratera</i>	20	Ki,Al?	oe	S,F	P	OLI	b-o
Coleps							
<i>C. hirtus</i>	21	O	oms (he?)	S,F	A,B,P	STE	a-b
<i>C. nolandi</i>	16	O	he	S,F	A,B	STE	o-a
<i>C. spetai</i>	60	Al,Cy	os	S	P		b
Colpidium							
<i>C. colpoda</i>	130	Ba,Fl,Al	ome	F,S,K	B	COL,TRI,HBE	p-i
<i>C. kleini</i>	65	Ba	os	F,S	B	TRI	p
Colpoda							
<i>C. cucullus</i>	70-140	Ba,Fl,Al	ome?	Bo,S,F	B,A	BOD	p-a
<i>C. ecaudata</i>	5-10	Ba	ome	Bo,K	B	HBE	p-i
<i>C. inflata</i>	40	Ba,Fl	ome?	Bo,S	B		a-p
<i>C. magna</i>	2400	Ba (O)	os	S	B	MAR	a-p
<i>C. steinii</i>	4	Ba	ome	Bo,S,F	P	BOD	a-p ⁹
Cothurnia							
<i>C. annulata</i>	14	Ba	oe?	S,F	A		o-b
Ctedoctema							
<i>C. acanthocryptum</i>	2	Ba	os	S,F	B	STE	b-a

	Biomass			Occurrence			
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
Cyclidium							
<i>C. glaucoma</i>	1-3	Ba	he	F,S,K	B,A,P	TRI	a
<i>C. heptatrichum</i>	2	Ba	ome?	F,S	B,A,P		b
Cyrtolophosis							
<i>C. mucicola</i>	2	Ba	he?	Bo,S,F	B	BOD	b-p
Dendrosoma							
<i>D. radians</i>	.7	R	oms	S,F	A,B,T		b-a
Dexiostoma							
<i>D. campylum</i>	26	Ba,Fl,Al	oms	F,S,K	B	COL,HBE	p-i
Dexiotricha							
<i>D. granulosa</i>	20	Ba	oe (he?)	S,F	B,A	NBE	a-p
Dexiotrichides							
<i>D. centralis</i>	5	Ba	oe?	S,F,K	Fs,B		p-i
Didinium							
<i>D. nasutum</i>	500	R	oe?	S,F	B,P		a-b
Dileptus							
<i>D. margaritifer</i>	500	O	he	S,F	B,A	PLE	b
Discomorphella							
<i>D. pectinata</i>	50	Ba,Sb	he?	S,F	Fs	MET	p-m
Disematostoma							
<i>D. buetschlii</i>	400	Al,Ba	os	S	P	MAR	b
<i>D. tetradricum</i>	150	Ki	os	S,F	P	MAR	b
Drepanomonas							
<i>D. revoluta</i>	1	Ba	oms?	Bo,S,F,K	B,A,P	BOD	a-p
Dysteria							
<i>D. fluviatilis</i>	5	?	os	F,S	A,B		b
Enchelyodon							
<i>E. elegans</i>	200	R?	oe?	S,F	B,A		a

	Biomass (mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Occurrence Preferred habitat	Community ³	Saprobity ⁴
Enchelyomorpha							
<i>E. vermicularis</i>	3	-	oms?	K,F,S	Fs,B	MET,HBE	p-m
Enchelys							
<i>E. gasterosteus</i>	21	O	os	S,F	B,A	STE	b-a
Epalxella							
<i>E. spp.</i>	2-25	Sb	os	S,F	Fs	MET	p-m
Epenardia							
<i>E. myriophylli</i>	700	Ba,Sb	os	S,F	B		a-p
Epistylis							
<i>E. chrysemydis</i>	260-1300	Ba,Al	oe	F	A,T	CAR,NBE	a
<i>E. coronata</i>	90	Ba	os	S	A		a
<i>E. digitalis</i>	30	Ba?	os	S,F	T		o-b
<i>E. entzii</i>	300	Ba	os	S,F,K	A,T	CAR,NBE	a
<i>E. galea</i>	250	Ba	os	S,F	A		a
<i>E. hentscheli</i>	100	Ba	oms	F,S	A,B	CAR,NBE	a-b
<i>E. nympharum</i>	80	Ba	os	S,F	T		o-a
<i>E. plicatilis</i>	40	Ba	ome?	S,F,K	A,B,T	CAR,NBE	a-b
<i>E. procumbens</i>	40	Ba,Fl	oe?	S,F	P		o-b
Euplotes							
<i>E. aediculatus</i>	260	O	oe?	F,S,K	B	CYR,NBE	a
<i>E. affinis</i>	18	Ba,Ki,Al, Fl	he?	F,S,K	B,A	TRI,STE,CYR, NBE	b-a
<i>E. eury stomus</i>	400	O	he?	S,F	B		a
<i>E. moebiusi</i>	23	Ba,Ki,Fl	he	F,S,K	B,A	CYR,NBE	a
<i>E. patella</i>	93	O	he?	F,S,K	B,A	PLE,CYR,NBE	b
Frontonia							
<i>F. acuminata</i>	100	O	oms	S,F	B,A,P	STE	b-a
<i>F. angusta</i>	110	O	os	F,S	B,A,P	STE	b-a

	Biomass (mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Occurrence Preferred habitat Habitat	Community ³	Saprobity ⁴
<i>F. atra</i>	95	Ki	os?	S,F	B,P		b-a
<i>F. leucas</i>	270	O	oe	S,F	B,A,P	STE	b-a
Gastronauta							
<i>G. clatratus</i>	10	Ki	oms	F,S	A,B	PLECYR	b-a
<i>G. membranaceus</i>	15	Ba	oe?	F,S	A,B	PLE,CYR	b
Gastrostyla							
<i>G. mystacea</i>	120	O	os	S,Bo	B		p
<i>G. steinii</i>	122	O	os	S,F,Bo	B		a
Glaucoma							
<i>G. reniforme</i>	10	Ba,Al	os	S,F	B,A		p
<i>G. scintillans</i>	25	Ba	oe	F,S,K	B,A	COL,TRI	p-a
Halteria							
<i>H. chlorelligera</i>	45	Al	os	S,F	P,Fs?		o?
<i>H. grandinella</i>	27	Ba,Al	he?	S,F,Bo	P,B	OLI,MAR	b-a
Hastatella							
<i>H. radians</i>	30	Ba	oe?	S,F	P	MAR	b-a
Heliophrya							
<i>H. minima</i>	10	R	os	S,F	A		b-a
<i>H. rotunda</i>	40	R	oe?	S,F	A		b-a
Hexotricha							
<i>H. caudata</i>	5	Ba	oms?	S,F,K	Fs		p-m
Histriculus							
<i>H. vorax</i>	350	Ba	os	S,K	B		a
Holophrya							
<i>H. discolor</i>	290	O	he	S,F,K	B,P		a-b
<i>H. ovum</i>	400	Ba,Cy,Al	oms	S,F	B,P		a-p
<i>H. teres</i>	1300	O	he	S,F	B,P		b-p

	Biomass (mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Occurrence Preferred habitat	Community ³	Saprobity ⁴
Holosticha							
<i>H. kessleri</i>	66	Ba,Ki	pe	S,F	B		a-b
<i>H. monilata</i>	52	Ba,Ki,Al	ome	F,S	B	STE,MOO	a-b
<i>H. multistilata</i>	109	O	ome	F,S,Bo	B		a-b
<i>H. pullaster</i>	12	Ba,Ki,Al	he	F,S	B	STE,CYR	b-a
Homalozoon							
<i>H. vermiculare</i>	300	O	oe	S,F	B,A		b-a
Hypotrichidium							
<i>H. conicum</i>	150	O	oms?	S	P	MAR	b-p
Kahlilembus							
<i>K. attenuatus</i>	3	Ba	he?	S,F,Bo	B,A	BOD	b
Kerona							
<i>K. pediculus</i>	230	Al,Ki ³	os	S,F	T,P		b-o
Lacrymaria							
<i>L. olor</i>	33	R	he	S,F	B,A	PLE	b
Lagenophrys							
<i>L. vaginicola</i>	40	Ba	os	S	T		o
Lagynophrya							
<i>L. acuminata</i>	25	Al	os	S	P		o
Lagynus							
<i>L. elegans</i>	200	O	he	S,F	Fs,B	MET	p-i
Lembadion							
<i>L. bullinum</i>	200	O	oe?	S,F	B	PLE	b
<i>L. lucens</i>	40	O	oms	S,F	B,P	STE	b-a
<i>L. magnum</i>	120	O	os	S,F	B,P	PLE	b
Leptopharynx							
<i>L. costatus</i>	5	Ba,Al	os	Bo,S,F	B,A,P	BOD,MOO	o-a

	Biomass		Occurrence			Community ³	Saprobity ⁴
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat		
Linostoma							
<i>L. vorticella</i>	1000	O	oe?	S,F	P,B		b-a
Litonotus							
<i>L. alpestris</i>	2	Ba?,Fl?	os	F,S	B,A	STE,CYR	b-a
<i>L. crystallinus</i>	13-100	R?	os	S,F	B,A		b-a
<i>L. cygnus</i>	40	R	he	F,S	B,A	PLE,CYR	b
<i>L. fusidens</i>	20-80	R	he?	S,F	B,A		b-p
<i>L. lamella</i>	15	R	he?	F,S,K	B,A	TRI	a
<i>L. varsaviensis</i>	60	R	he?	F,S	B,A	COL	p-i
Loxocephalus							
<i>L. luridus</i>	300	Ba	oe	S,F	B,A,Fs		p-i
Loxodes							
<i>L. magnus</i>	960	O	os	S,F	B,P	MET	p
<i>L. rostrum</i>	250	O	oms	S,F	B,P	MET	p
<i>L. striatus</i>	200	Al,Ki,Cy	os	S,F	B,P	MET	p
Loxophyllum							
<i>L. helus</i>	160	R	he	S,F	A,B		b
<i>L. meleagris</i>	700	R	he?	S,F	A,B	PLE	b
<i>L. utriculariae</i>	90	R	oe?	F,S	A		b
Marituja							
<i>M. pelagica</i>	190	Ki,Cy,Al (O)	os	S	P		o
Mesodinium							
<i>M. acarus</i>	1.5	O	he	S,F	P,B		b
<i>M. pulex</i>	5	O	he	S,F	P,B		b
Metacineta							
<i>M. cuspidata</i>	16	R	os	S,F	A		b-a
<i>M. mystacina</i>	65	R	ome	S,F	A,T		b-a

	Biomass			Occurrence			
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
Metopus							
<i>M. spp. sensu lato</i>	15-500	Ba,Fl,Al	he	S,F,K	Fs	MET,HBE	p-m
Microthorax							
<i>M. pusillus</i>	1	Ba	he	S,F	B,A		a
Monilicaryon							
<i>M. monilatus</i>	900	O	os	S,F	B,A	PLE	b
Monodinium							
<i>M. balbianii</i>	55	R	he?	S,F	P,B	OLI	o-a
Nassula							
<i>N. ornata</i>	1600	Cy	oms	S,F	B,A,P	MAR	b
<i>N. picta</i>	224	Cy (O)	oe?	S,F,Bo	B,A,P	MAR	b
Nassulopsis							
<i>N. elegans</i>	400	Cy	he?	S,F	B,P	MAR	b
Obertrumia							
<i>O. aurea</i>	500	Cy	he?	S,F	B,P	MAR	b-a
Odontochlamys							
<i>O. alpestris</i>	10	Ba	os	F,Bo	A,B	CYR	b-a
Opercularia							
<i>O. articulata</i>	140	Ba	os	F,S,K	A,T	CAR,STE,NBE	a-b
<i>O. coarctata</i>	25	Ba	os	F,K	A,B	CAR,NBE	a
<i>O. nutans</i>	70	Ba	os	S,F	A,T	CAR,STE,NBE	b-a
Ophrydium							
<i>O. crassicaule</i>	180	Ba,Al	oms	S	A		b-a
<i>O. eutrophicum</i>	215	Ba	os	S	A,P		b-a
<i>O. sessile</i>	350	Ba	oe?	S	A		a-b
<i>O. versatile</i>	280	Ba,Al	he?	S	A,P		o
Ophryoglena							
<i>O. spp.</i>	-	histophag	-	S,F	B		-

	Biomass		Occurrence			Community ³	Saprobity ⁴
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat		
Opisthionecta							
<i>O. henneguyi</i>	1000	Ba,Fl	os	S,F,K	P,B	MAR	b-p
Oxytricha							
<i>O. chlorelligera</i>	35	Ba,Fl,Ki	oms	S,F	B,A		a
<i>O. fallax</i>	155	O	he?	S,F	B		a
<i>O. ferruginea</i>	125	Ba,Cy,Al,Ki	oe?	F,S	B		o
<i>O. haematoplasma</i>	80	O	os	F,S	B	STE	b-a
<i>O. hymenostoma</i>	30	O	os	F,S,K	B,A		p
<i>O. saprobia</i>	34	Ba,Fl	os	S,F	B		a-p
<i>O. setigera</i>	8	Ba,Fl	os	F,S,Bo	B		a-b
<i>O. similis</i>	14	Ba	he?	F,S	B		b-a
Paracolpidium							
<i>P. truncatum</i>	30	Ba	os	F,S	B		a
Paradileptus							
<i>P. elephantinus</i>	1000	O	os	S	P	OLI	b
Paramecium							
<i>P. aurelia</i> -Komplex	150	Ba	ome	S,F,K	B,P	TRI,CAR	a-b
<i>P. bursaria</i>	120	Ba,Al,Ki	ome	S,F	A,B,P	STE,MOO	b-a
<i>P. caudatum</i>	500	Ba,Al	ome	S,F,K	B,P	COL,TRI,HBE	p-a
<i>P. putrinum</i>	70	Ba,Sb,Cy,Fl	ome	F,S,K	B,A,P	COL,HBE	p
Parapodophrya							
<i>P. soliformis</i>	65	R	oms?	S,K	Fs	HBE	p
Paraurostyla							
<i>P. viridis</i>	87	Ba	os	S	B		b-a
<i>P. weissei</i>	240	O	ome?	S,F	B		a
Pelagohalteria							
<i>P. cirrifera</i>	35	Al	os	S,F	P		o-b

	Biomass			Occurrence			
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
Pelodinium							
<i>P. reniforme</i>	20	Sb	he?	S,F	Fs	MET	p-m
Phascolodon							
<i>P. vorticella</i>	75	Al,Ki	oe	S,F	P	OLI,MAR	b-a
Phialina							
<i>P. spp.</i>	-	R	-	S,F,Bo	B,A	-	-
Philasterides							
<i>P. armatus</i>	25	histophag	os	S,F	B,A		b-a
Placus							
<i>P. luciae</i>	25	O	ome	S,F	B,A	PLE	b-o
Plagiocampa							
<i>P. rouxi</i>	7	Ba,Al	he	S,F,Bo	B,A,P		a-b
Plagiopyla							
<i>P. nasuta</i>	120	Ba,Sb,Al,Fl	oe?	S,F	Fs	MET	p-i
Platycola							
<i>P. decumbens</i>	35	Ba,Al,Fl	ome	S,F	A		b-a
Platynematum							
<i>P. sociale</i>	4	Ba	ome	S,F	B,A		p
Platyophrya							
<i>P. vorax</i>	5-12	O	os	Bo,S,F	B	BOD	p-i
Pleuronema							
<i>P. coronatum</i>	60	O	he?	S,F	B	PLE	b
<i>P. crassum</i>	60	Ba,Al,Ki	he	S,F	B		b-a
Pleurotricha							
<i>P. grandis</i>	1300	Ki,Al	oms?	S,F	B		b
Podophrya							
<i>P. fixa</i>	50	R	he?	S,F,K	A,B	NBE	a
<i>P. maupasii</i>	30-110	R	he	S,F	A,B	NBE	a

	Biomass		Occurrence			Community ³	Saprobity ⁴
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat		
Prodiscophrya							
<i>P. collini</i>	78	R	os	S,F,K	A,B	COL,NBE	a-p
Prorodon							
<i>P. ellipticus</i>	190	R	he?	S,F	B,A		b-a
<i>P. niveus</i>	2500	R	oms?	S,F	B		b-o
Pseudoblepharisma							
<i>P. tenue</i>	30	Ba	os	S,Fs,F	B		p
Pseudochilodonopsis							
<i>P. algivora</i>	9	Al,Ba	he?	S,F	B,P	CYR	a ⁸
<i>P. fluviatilis</i>	15	Ki	os	F,K	A,B	STE,CYR	b-a
<i>P. piscatoris</i>	19	Al,Ki	os	S,F	A	CYR	b
Pseudocohnilembus							
<i>P. pusillus</i>	6	Ba	he	S,F,K,Bo	B,P	MET,COL	p-i
Pseudomicrothorax							
<i>P. agilis</i>	14	Cy (Ba,Al)	oe?	S,F	A,B		b
Pseudovorticella							
<i>P. chlamydophora</i>	50	Ba,Al	ome	S,F	A,B		b-a
<i>P. monilata</i>	70	Ba	ome?(he?)	S,F	A,B	STE	b-a
Pyxicola							
<i>P. carteri</i>	20	Ba	os	S	A		o-b
Rhabdostyla							
<i>R. inclinans</i>	35	Ba	oms?	S,F	T		a
Saprodinium							
<i>S. spp.</i>	17-50	Ba,Sb	os	S,F,K	Fs	MET	p-m
Sathrophilus							
<i>S. muscorum</i>	12	Ba,Fl	os	Bo,S,F	A	BOD	b-a
Scyphidia							
<i>S. rugosa</i>	90	Ba?	os	S,F	A,B		a

	Biomass			Occurrence			
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
Spathidium							
<i>S. s. l.</i>	-	R	-	S,F	A,B,P	BOD	-
Sphaerophrya							
<i>S. magna</i>	65	R	he	S,F	A,B,P		p
Spirostomum							
<i>S. ambiguum</i>	14600	Ba,Fl,Al	oe	S,F	B,P	TRI	a
<i>S. caudatum</i>	130	Ba	he	S	B		o-b
<i>S. minus</i>	425	Ba	oe?	S,F	B,P	STE	a-b
<i>S. teres</i>	380	Sb,Ba,Al,Ki	oe (he?)	S,F,	B,P,Fs	COL,HBE	p
Staurophrya							
<i>S. elegans</i>	110	R	oe?	S,F	P		o-a
Steinia							
<i>S. platystoma</i>	75	O	os	S,F	A,B		b-a
Stentor							
<i>S. amethystinus</i>	4000	Ba,Al,Ki	os	S	P		b
<i>S. coeruleus</i>	12000	O	oe	S,F	B,A,P		a-b
<i>S. igneus</i>	450	Ba,Al,Ki	os	S,F	B,P	PLE	b
<i>S. muelleri</i>	4500	Ba,Al,Ki	ome	S,F	A	STE	b-a
<i>S. multiformis</i>	600	Al,Ba	he	S,F	B,A	STE	b-a
<i>S. niger</i>	1000	Al	oms	S,F	A,B		o-b
<i>S. polymorphus</i>	4500	O	oms	S,F	B,A	STE	b-a
<i>S. roeselii</i>	5000	O	oe	S,F	B,A	STE	a-b
Sterkiella							
<i>S. histriomuscorum</i>	72	O	os	F,S,K,Bo	B	NBE	a
Stichotricha							
<i>S. aculeata</i>	20	Ba,Al	he?	S,F	B	MAR	b-a
<i>S. secunda</i>	30	Ba,Al,Ki	ome	S,F	B,A	MAR	o

	Biomass (mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Occurrence Preferred habitat	Community ³	Saprobity ⁴
Stokesia							
<i>S. vernalis</i>	400	Ba,Al,Ki	os	S,F	P		b
Strobilidium							
<i>S. caudatum</i>	45	Ki,Al,Ba	oms?	S,F	B,P	PLE	o-b
<i>S. humile</i>	4	Ki	oms?	S	P,B	OLI	b
Strombidium							
<i>S. viride</i>	50	Ki,Al,Ba	oe	S,F	P	OLI	b
Stylonychia							
<i>S. mytilus</i> -Komplex	400	O	ome	S,F	B,A	TRI,CYR	a
<i>S. pustulata</i>	80	O	he?	S,F	B,A	CYR	b
<i>S. putrina</i>	68	O	ome	S,F	B		a
<i>S. stylomuscorum</i>	30	Ki,Fl	os	F	B		b
<i>S. vorax</i>	57	O	os	S	B		b
Tachysoma							
<i>T. bicirratum</i>	15	Ba,Al	os	S,F	B		a-p
<i>T. pellionellum</i>	15	Ba,Cy,Al,Ki	ome (he?)	F,S	B,A	STE,CYR	b-a
Tetrahymena							
<i>T. pyriformis</i> -Komplex	15	Ba ⁶	oms?	F,S,K	B	COL	p-i
Thigmogaster							
<i>T. oppositovacuolatus</i>	15	Ba	os	F,K	A,B	CYR	a-b
<i>T. potamophilus</i>	2.5	Ki,Al	os	F	A,B	CYR	b-a
Thuricola							
<i>T. folliculata</i>	120	Ba,Al	he	S,F	A		b
<i>T. kellicottiana</i>	200	Al	oms?	S,F	A		b
<i>T. vasiformis</i>	130	Ba	os	S	A,B		a
Tintinnidium							
<i>T. fluviatile</i>	50	Al,Ki	oe	S,F	P	OLI	o-b
<i>T. pusillum</i>	40	Al,Ki,Ba	oms?	S,F	P	OLI	b

	Biomass (mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Occurrence Preferred habitat	Community ³	Saprobity ⁴
<i>T. semiciliatum</i>	40	Al,Ki	os	S,F	A,B	PLE	b
Tintinnopsis							
<i>T. cylindrata</i>	20	Al	os	S,F	P	OLI	b
Tokophrya							
<i>T. carchesii</i>	12	R	os	S,F	T	CAR	a
<i>T. infusionum</i>	30	R	os	S,F	A,B	CAR,NBE	b-a
<i>T. lemnae</i>	16	R	oms?	S,F,K	A,B,T	CAR,NBE	a
<i>T. quadripartita</i>	75	R	oms?	S,F,K	A,B,T	CAR,NBE	a-b
Trachelius							
<i>T. ovum</i>	3000	R	oms	F,S	A,P	CAR	a-b
Trachelophyllum							
<i>T. apiculatum</i>	39	O	he?	S,F	A,B		b-a
Trichodina							
<i>T. pediculus</i>	80	Ba ⁴	he?	S,F	T,P		b
Trimyema							
<i>T. compressum</i>	10	Ba	he	S,F,K	Fs	MET,COL,HBE	p-m
Trithigmostoma							
<i>T. cucullulus</i>	50	Ki,Al,Cy,Ba	he?	F,S,K	A,B	COL,TRI,CYR	a-p
<i>T. srameki</i>	40	Ki	os	F,S	A,B	STE,CYR	b-a
<i>T. steini</i>	150	Ki	os	F,S	A,B	CYR	b-a
Trochilia							
<i>T. minuta</i>	1.5	Ba	os	F,K	A,B	STE,CYR	b-a
Trochilioides							
<i>T. recta</i>	25	Sb	he	F,S	A,B,Fs		a
Tropidoatractus							
<i>T. acuminatus</i>	20	Ba	os	S	Fs		p-m
Urocentrum							
<i>U. turbo</i>	70	Ba,Ki	he?	S,F	B,A,P		a-b

	Biomass		Occurrence			Community ³	Saprobity ⁴
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat		
Uroleptus							
<i>U. gallina</i>	72	Al	oms?	S,F	B		b
<i>U. musculus</i>	214	O	oms?	S,F	B,A		a
<i>U. piscis</i>	400	Ba,Cy,Ki	oe?	S,F	B,A		a
<i>U. rattulus</i>	400	Ba,Al	oe?	S,F	B,A		b
Uronema							
<i>U. nigricans</i>	5	Ba,Fl	he	F,S	B,A,P	TRI	a-p
Urostyla							
<i>U. grandis</i>	500	O	he?	S,F	B		a
Urotricha							
<i>U. agilis</i>	0.5	Ba,Fl	os	S	B,P	OLI,MAR	b-a
<i>U. armata</i>	15	R	oe (he?)	S,F	B,A	MAR	a
<i>U. farcta</i>	5	Ba,Al,Fl	oms?	S,F	B,P	OLI,MAR	a-b
<i>U. furcata</i>	3-4	Ba,Al	os	S,F	P	OLI,MAR	b
<i>U. globosa</i>	7	Ba,Al	he?	S	P	OLI,MAR	b
<i>U. ovata</i>	15	Al	oe?	S,F	B,P	OLI,MAR,MOO	a-p
Urozona							
<i>U. buetschlii</i>	3	Ba	os	S,K,F	B,P		p
Vaginicola							
<i>V. ingenita</i>	3-4	Ba	he	S,F	A,T		b
<i>V. tincta</i>	15	Ba	os	S,F	A		o-b
Vorticella							
<i>V. aquadulcis</i> -Komplex	15	Ba,Al	he?	S,F,K	A,B	STE	b-a
<i>V. campanula</i>	135	Ba,Al	oe (he?)	S,F,K	A,B,T	STE	a-b
<i>V. convallaria</i> -Komplex	50-75	Ba	he	S,F,K	A,B,T	TRI,CAR,NBE	a
<i>V. fromenteli</i>	35	Ba	oe	S	A		a
<i>V. infusionum</i> -Komplex	25	Ba	he?	S,F,K,Bo	A,B,T	COL,CAR,HBE	p-a
<i>V. marginata</i>	100	Ba	os	S,F	A,B		b

	Biomass		Occurrence				
	(mg of 10 ⁶ ind. ¹)	Main food	Salinity tolerance ²	Preferred water type	Preferred habitat	Community ³	Saprobity ⁴
<i>V. mayeri</i>	50	Ba	os	S,F	P		b
<i>V. microstoma</i> -Komplex	30	Ba,Al	oms?	S,F	A,B		p-a
<i>V. natans</i>	90	Ba,Al	oe?	S,F	P	OLI	b
<i>V. octava</i> -Komplex	20	Ba	oe	S,F	A		b-a
<i>V. picta</i>	40	Ba,Al	oe?	S,F	A	PLE	b
Zoothamnium							
<i>Z. arbuscula</i>	55	Ba	ome?	S,F	A		b-a
<i>Z. kentii</i>	40	Ba	ome	F,S	A	CAR,STE	b-a
<i>Z. procerius</i>	45	Ba	he	F,S	A,B,T	CAR,STE	b-a
Zosterodasys							
<i>Z. transversa</i>	300	Ki	he	F,S	A,B	CYR	b

a = alpha-mesosaprobic, **A** = Aufwuchs (periphyton), **Al** = algae (except of diatoms, but inclusively autotrophic flagellates), **b** = beta-meso-saprobic, **B** = benthos, **Ba** = bacteria, **Bo** = terrestrial soils, **BOD** = influence of soil and/or moss, **CAR** = *Carchesietosum polypinae*, **COL** = *Colpidietum colpodae*, **Cy** = cyanobacteria, **CYR** = *Cyrtophoretea*, **F** = flowing waters, **Fl** = heterotrophic flagellates, **Fs** = anaerobic mud (and anaerobic zones in the pelagial), **HBE** = high-load and/or oxygen deficient activated sludge, **he** = holo-euryhaline, **i** = isosaprobic, **K** = sewage treatment works (activated sludge plants), **Ki** = diatoms, **MAR** = *Marynetum*, **MET** = *Metopetum*, **MOO** = mire influence, **mpe** = meso- to poly-euryhaline, **mps** = meso- to poly-stenohaline, **NBE** = normale activated sludge, **O** = omnivorous (feeds on autotrophic organisms and protozoans, sometimes even on small metazoans), **o** = oligosaprobic, **oe** = oligo-euryhaline, **OLI** = *Oligotrichetea* (lake influence), **ome** = oligo- to meso-euryhaline, **oms** = oligo- to meso-stenohaline, **os** = oligo-stenohaline, **p** = polysaprobic, **P** = planktonic, **pe** = poly-euryhaline, **PLE** = *Pleuronemetum coronatae*, **ps** = poly-stenohaline, **R** = predator (feeds on protozoans, mostly ciliates, some species even ingest small metazoans), **S** = stagnant waters, **Sb** = sulphur bacteria, **STE** = *Stentoretum*, **T** = epizoic, **TRI** = *Trithigmostometum cucullulae*, **x** = xenosaprobic.

- 1: Wet mass; $1 \mu\text{m}^3 = 1 \text{ pg}$, i.e. specific gravity of the protoplasm is 1.0 (FINLAY 1982)
- 2: For classification see Table 1. Data are often highly questionable and thus are then marked with a "?". Very few limnetic ciliates occur in truly marine environments although many species tolerate high salinities. Many freshwater species occur in saline estuaries together with some marine species, however, few marine ciliates occur in strongly saline inland waters.
- 3: See community plates. Many species cannot yet be classified into a certain community.
- 4: According to table 3 in FOISSNER et al. (1995)
- 5: Feeds also on epidermal cells, cnidocysts and food residues of *Hydra*.
- 6: Ingests also fish epidermal cells if the latter are very abundant.
- 7: For *Caenomorpha medusula*.
- 8: Also histophagous, i. e. feeding on cells of dying or dead metazoans.
- 9: Erroneously written "3.5 mg/l" in FOISSNER et al. (1994).
- 10: Not calculated because of complicated shape.
- 11: If very abundant, otherwise use a-b.
- 12: If very abundant, otherwise use b-a.
- 13: According to ALBRECHT (1984); erroneously classified as holo-euryhaline in FOISSNER et al. (1994).

Table 1: Salinity terminology (after ALBRECHT 1984). Cl = chloride (mg/l Cl^-), S = salinity (‰)

Cl	0 - 400	400 - 2000	2000 - 5000	5000 - 17 000	> 17 000
S	0 - 1	1 - 4	4 - 10	10 - 30	> 30
holo-euryhaline					
oligo-stenohaline		meso- to poly-euryhaline			
oligo- to meso-stenohaline			poly-euryhaline		
oligo-euryhaline				meso- to poly-stenohaline	
oligo- to meso-euryhaline					poly-stenohaline