

# Checklist of the Microbialites of Australia

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Systematics — author attribution. See below for problems and uncertain assignments. Publication assignments and dates for some Russian taxa are uncertain. I have followed Raaben et al. (2001)

***Acaciella*** Walter 1972 *in* Preiss 1972

*Acaciella angepena* Preiss 1972

*Acaciella augusta* Preiss 1972

*Acaciella australica* (Howchin 1914) Walter 1972

*Acaciella emmerugga* Walter and Krylov 1988 *in* Walter et al. (1988)

*Acaciella savoryensis* Grey and Walter 1994 *in* Walter et al. (1994)

***Alcheringa*** Walter 1972

*Alcheringa narrina* Walter 1972

***Anabaria*** Komar 1964

*Anabaria juvenis* Cloud and Semikhatov 1969 \*needs revision – see below

***Asperia*** Semikhatov 1978

*Asperia ashburtonia* Grey 1985

*Asperia digitata* (Grey 1984) Grey 1994a

***Atilanya*** Allen, Grey and Haines 2017

*Atilanya fennensis* Allen, Grey and Haines 2017

*Australoconus abnera* Walter and Krylov 1988 *in* Walter et al. 1988

***Baicalia*** Krylov 1962

*Baicalia burra* Preiss 1972

*Baicalia capricornia* Walter 1972

**Basisphaera** Walter 1972

*Basisphaera irregularis* Walter 1972

**Boxonia** Korolyuk 1960

*Boxonia melrosa* Preiss 1972

*Boxonia pertaknurra* Walter 1972

**Bukalara** Walter and Krylov 1988 *in* Walter et al. 1988

*Bukalara tortuosa* Walter and Krylov 1988 *in* Walter et al. 1988

**Carnegia** Grey 1984

*Carnegia wongawolensis* Grey 1984

**Conophyton** Maslov 1937

*Conophyton basalticum* Walter 1972

*Conophyton* cf. *gaubitza* Krylov 1967 \*part of *C. basalticum*, see below

*Conophyton garganicus* [sic.] Korolyuk 1960 *in* Cloud and Semikhatov 1969

*Conophyton garganicum australe* Walter 1972

*Conophyton garganicum ?garganicum* *in* Walter 1972

*Conophyton garganicum garganicum* Korolyuk 1963 *in* Preiss 1973

**Earaheedia** Grey 1984

*Earaheedia kuleliensis* Grey 1984

**Ephyaltes** Vlasov 1977

**Eleonora** Bertrand-Sarfati and Caby 1976

*Eleonora boondawarica* Grey and Walter 1994 *in* Walter et al. (1994)

*Elleria* Walter 1979 *in* Walter, Krylov and Preiss (1979) \*see below

*Elleria minuta* Walter and Krylov 1979 *in* Walter, Krylov and Preiss (1979) \*see below

**Ephyaltes** Vlasov 1977

*Ephyaltes edingunnensis* Grey 1994

**Eucapsiphora** Cloud & Semikhatov 1969

*Eucapsiphora leakensis* Grey 1994

*Eucapsiphora paradisa* Cloud & Semikhatov 1969

**Externia** Semikhatov 1978

*Externia yilgarnia* (Preiss 1976) Grey 1984

**Georginia** Walter 1972

*Georginia howchini* Walter 1972

**Gruneria** Cloud and Semikhatov 1969                   \*not *Gruneria*, current status unknown

*Gruneria biwabikia* Cloud and Semikhatov 1969 \*not *Gruneria biwabikia*, current status unknown

**Gymnosolen** Steinmann 1911

*Gymnosolen* cf. *ramsayi* Steinmann 1911 in Preiss (1973)                   \*not *G. ramsayi*, current status uncertain, now *Gymnosolen* F. indet.

**Inzeria** Krylov 1962

*Inzeria conjuncta* Preiss 1973

*Inzeria* cf. *tjomusi* Krylov 1963 in Cloud and Semikhatov (1969)

*Inzeria* cf. *tjomusi* Krylov 1963 in Preiss (1973)                   \*not *I. cf. tjomusi*, current status uncertain

*Inzeria intia* Walter 1972

*Inzeria multiplex* Preiss 1973

**Jurusania** Krylov 1963

(*Jurusania alicia* Cloud and Semikhatov 1969)                   \*now *Kulparia alicia*

*Jurusania burrensis* Preiss 1973

*Jurusania nisvensis* Raaben 1964

**Katavia** Krylov 1963

*Katavia costata* Preiss 1973

**Kotuikania** Komar 1964

*Kotuikania juvenis* (Cloud and Semikhatov 1969) Walter 1972 in Walter et al. (1979)                   \*see below

**Kulparia** Preiss and Walter 1972 in Walter 1972

*Kulparia alicia* (Cloud and Semikhatov 1969) Walter 1972

*Kulparia kulparensis* Preiss 1973

**Kussiella** Krylov 1963

*Kussiella kussiensis* Krylov 1963

**Kussoidella** Semikhatov 1978

*Kussoidella limata* Semikhatov 1978

\*see *Kussiella* f. *indet* Cloud and Semikhatov 1969

*Kussoidella karalundensis* Grey 1994

**Linella** Krylov 1967

*Linella avis* Krylov 1967

*Linella munyallina* Preiss 1974

*Linella ukka* Krylov 1967

\*not *L. ukka*, status uncertain, now *Linella* f. *indet.*

**Madiganites** Walter 1972

*Madiganites mawsoni* Walter 1972

**Minjaria** Krylov 1962

*Minjaria pontifera* Walter 1972

(*Minjaria granulosa* Preiss 1976)

\*now *Windidda granulosa*

**Murgurra** Grey 1984

*Murgurra nabberuensis* Grey 1984

**Nabberubia** Grey 1984

*Nabberubia toolooensis* Grey 1984

**Omachtenia** Nuzhnov 1967

*Omachtenia teagiana* Grey 1984

*Omachtenia utschurica* Nuzhnov 1967 in Preiss 1984

\*not *O. utschurica*, status uncertain, now *Omachtenia* f. *indet.*

**Pilbaria** Walter 1972

*Pilbaria deverella* Grey 1984

*Pilbaria perplexa* Walter 1972

**Segosia** Butin 1966

*Segosia finlaysoniensis* Grey 1994

(*Tarioufietia yilgarnia* Preiss 1976)

\* now *Externia yilgarnia*

**Tesca** Walter 1979 in Walter et al. (1979)

*Tesca stewartii* Walter and Krylov 1979 in Walter et al. (1979)

**Tungussia** Semikhatov 1962

*Tungussia erecta* Walter 1972

*Tungussia etina* Preiss 1974

*Tungussia inna* Walter 1972

*Tungussia julia* Walter and Krylov 1979 in Walter et al. (1979)

*Tungussia wilkatanna* Preiss 1974

(*Tungussia heterostroma* Preiss 1976)

\*now *Windidda granulosa*

**Wilunella** Grey 1984

*Wilunella glengarrica* Grey 1994

**Windidda** Grey 1984

*Windidda granulosa* (Preiss 1976) Grey 1984

**Yandilla** Grey 1984

*Yandilla meekatharrensensis* Grey 1984

(**Yelma** Grey 1984)

\*now *Asperia*

(*Yelma digitata* Grey 1984)

\*now *Asperia digitata*

## Problems

*Anabaria juvenis* Cloud and Semikhatov 1969. Incorrectly assigned to *Kotuikania juvenis* by Walter, Krylov and Preiss 1979 and a senior synonym of *Elleria minuta* Walter, Krylov and Preiss 1979 – (revision in progress) *Kotuikania juvenis* (Cloud and Semikhatov 1969) Walter, Krylov and Preiss 1979 is, in part *Anabaria juvenis*, in part a Form of *Kotuikania* (revision in progress). Assignment to *Anabaria* also seems incorrect. A more appropriate assignment would be to *Alternella* Raaben in Raaben and Zabrodin 1972.

***Elleria*** Walter 1979 in Walter, Krylov and Preiss (1979) \*under revision, type species is a junior synonym of *Anabaria juvenis* Cloud and Semikhatov 1969

*Elleria minuta* Walter 1979 in Walter, Krylov and Preiss (1979) \* under revision, junior synonym of *Anabaria juvenis* Cloud and Semikhatov 1969

cf. ?*Kulparia* form indet. Preiss 1976 in Grey 1984

'BALBIRINA PRIMA' see Walter et al, 1988. Invalid name that does not conform to the rules of naming ranks higher than Group (genus) under the rules of nomenclature. The authors were not named in the publication, but were presumably Walter and Krylov, the authors of the taxonomic section of the paper.

<b><i>Collenia</i></b> Walcott 1914	identification outdated
<i>Collenia columnaris</i> Fenton and Fenton in Logan and Chase (1961)	identification outdated
<i>Collenia undosa</i> Walcott 1914 in Logan and Chase (1961)	identification outdated
<i>Collenia brockmani</i> Edgell 1964	abiogenic nodule
<i>Collenia</i> cf. <i>kona</i> Twenhofel 1919 in Edgell 1964	abiogenic nodule
<i>Collenia undosa</i> Walcott 1914 in Edgell 1964	unidentifiable stromatolite
<i>Collenia australasica</i> Howchin 1914	form name misspelled, misidentified, probably <i>Pilbaria perplexa</i>
<i>Collenia frequens</i> Walcott 1906 in Edgell 1964	identification outdated
<i>Newlandia lamellosa</i> Walcott 1914 in Edgell 1964	abiogenic nodule
<i>Conophyton</i> cf. <i>inclinatum</i> Rezak 1957 in Edgell 1964	unidentifiable
<i>Osagia</i> sp. in Edgell 1964	abiogenic nodule
Krylov 1967, Field examination shows that the structure referred to as <i>C.cf. gaubitza</i> is the ridge structure of <i>C. basalticum</i>	
<i>Frutexites</i> Maslov 1960; no Form (= species) named	
<i>Girvanella</i> Nicholson and Etheridge 1878; emend Wood 1957; no Form (= species) named	

*Omachtenia* F. indet. (previously recorded as *Omachtenia utschurica* Nuzhnov 1967 by Preiss, 1974)

*Renalcis* Vologdin 1932; no Form (= species) named

*Sphaerocodium* Rothpletz 1890; no Form (= species) named

***Patomia*** Raaben 1964 – *Patomia* f. indet Walter 1972

## **References**

Raaben, M.E., Sinha, A.K. & Sharma, M., 2001. Precambrian stromatolites of India and Russia (A catalogue of type-form-genera). Birbal Sahni Institute of Palaeobotany, Lucknow, India, 125p.