

Supporting Information for:

Planarians, a neglected component of biodiversity in groundwaters

Benedetta Barzaghi, Davide De Giorgi, Roberta Pennati, Raoul Manenti

Species	References	Cave's Name	Cave's State	Cave's Adaptation
<i>Opisthobursa mexicana</i>	[1]	Las Grutas de Coconá	Mexico	unpigmented body
<i>Opisthobursa josephinae</i>	[1]	Pozza Casa Bell	Mexico	unpigmented body
<i>Balliania thetisae</i>	[1]	NA	Tahiti	unpigmented body
<i>Opisthobursa sp.</i>	[1]	Grutas de Languín	Guatemala	unpigmented body
<i>Kawakatsua pumila</i>	[1]	NA	Panama	unpigmented body
<i>Hausera hauseri</i>	[1]	Crotes cave	Brazil	unpigmented body
<i>Novomitchellia sarawakana</i>	[1]	Water Polo Cave	Malaysia	unpigmented body
<i>Novomitchellia bursaelongata</i>	[1]	Parakou	Benin Republic	unpigmented body
<i>Hausera sp. 1</i>	[1]	Fur0 Feia cave	Brazil	unpigmented body
<i>Sphalloplana</i>	[2]	NA	United States	adhesive organ
<i>Dugesiidae cf. Girardia</i>	[3]	M. do Seu Jesus, Buraco do Bicho, Dona Benedita, Cinco de Ouros, Mimoso, Abismo Opossum, Lago Azul	Brazil	NA
<i>Girardia multidiverticulata</i>	[4]	Buraco do Bicho	Brazil	unpigmented body
<i>Pasipha carajaensis</i>	[5]	Caves in the Serra Leste region	Brazil	lack of eye
<i>Pasipha tutameia</i>	[5]	Gruta de Santo Amaro II	Brazil	lack of eye
<i>Dugesia batuensis</i>	[6]	Dark Cave	Malaysia	NA
<i>Dugesia deharvengi</i>	[6]	Tham Nen Noi	Thailand	lack of eye
<i>Pasipha ferrariaphila</i>	[7]	ferruginous cave	Brazil	lack of eye, eyes spreading
<i>Atrioplanaria morisii</i>	[8]	Grotta Ta0 di San Luigi	Italy	unpigmented body
<i>Dendrocoelum beauchampi</i>	[8]	Grotta di Cavassola	Italy	unpigmented body
<i>Atrioplanaria notadena</i>	[8]	Grotta Tanna da Suja	Italy	unpigmented body
<i>Dendrocoelum benazzii</i>	[8]	Grotta di Stiffe	Italy	unpigmented body
<i>Dendrocoelum collini</i>	[8]	Grotta Nuova Villanova	Italy	unpigmented body
<i>Dendrocoelum italicum</i>	[8]	Grotta Bus del Budrio	Italy	unpigmented body

<i>Dendrocoelum</i> <i>sp.</i>	[8]	Grotta Grande di Pignone	Italy	unpigmented body
<i>Dugesia brigantii</i>	[8]	Grotta di Bocca Lupara	Italy	NA
<i>Polycelis</i> <i>benazzii</i>	[8]	Tana di Spettari	Italy	unpigmented body
<i>Dendrocoelum</i> <i>italicum</i>	[9]	Grotta Bus del Budrio	Italy	unpigmented body
<i>Dendrocoelum</i> <i>leporii</i>	[10]	Frasassi Gorge	Italy	unpigmented body
<i>Dendrocoelum</i> <i>obstinatum</i>	[11]	Movile Cave	Romania	unpigmented body, absence of spermatophores, adhesive organ
<i>Kenkia</i> <i>glandulosa</i>	[12]	Devils Icebox cave	United States	unpigmented body
<i>Hausera hauseri</i>	[13]	Crotes cave	Brazil	unpigmented body (it shows some primitive characters)
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>zeschi</i>	[14]	Zesch Ranch Cave	United States	unpigmented body
<i>Dendrocoelum</i> <i>nekoum</i>	[15]	Riedschwandhohle	Switzerland	unpigmented body
<i>Girardia</i> <i>desiderensis</i>	[16]	Gruta da Baixa Fria	Brazil	unpigmented body
<i>Girardia</i> <i>pierremartini</i>	[16]	Toca do Charco, Lapa da Fazenda São Bernardo	Brazil	NA
<i>Kenkia</i> <i>glandulosa</i>	[17]	Devil's Icebox cave	United States	unpigmented body
<i>Dendrocoelopsis</i> <i>americana</i>	[18]	NA	United States	unpigmented body
<i>Dendrocoelopsis</i> <i>americana</i>	[18]	Mobley Cave	United States	unpigmented body
<i>Dugesia brigantii</i>	[19]	Grotta di Bocca Lupara	Italy	no adaptations to their subterranean habitat are apparent
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>percoeca</i>	[20]	Gregory's Cave	United States	unpigmented body
<i>Dendrocoelum</i> <i>constrictum</i>	[21]	NA	Tunisia	unpigmented body, small eyes
<i>Novomitchellia</i> <i>bursaelongata</i>	[22]	NA	Republic of Benin	NA
<i>Dugesia sp.</i> (<i>species of</i> <i>Sulawesi</i>)	[23]	Gua Tanette	Indonesia	unpigmented body
<i>Dendrocoelopsis</i> <i>americana</i>	[23]	Christian School Cave	United States	unpigmented body, small eyes
<i>Dendrocoelum</i> <i>mariae</i>	[24]	NA	Italy	unpigmented body, anterior adhesive organ
<i>Dendrocoelum</i> <i>nuraghum</i>	[24]	Monte Majore Cave	Italy	unpigmented body, anterior adhesive organ
<i>Pasipha tutameia</i>	[24]	Sa Ucca 'e su Peltusu Cave	Italy	unpigmented body, anterior adhesive organ
<i>Phagocata</i> <i>obscura</i>	[24]	Cuccuru Tiria Cave	Italy	unpigmented body
<i>Phagocata sp. 1</i>	[24]	Monte Majore Cave	Italy	unpigmented body

<i>Phagocata sp. 2</i>	[24]	NA	Italy	unpigmented body
<i>Phagocata sp. 3</i>	[25]	NA	Italy	unpigmented body, each eye is accompanied by one small supernumerary eye
<i>Dendrocoelopsis americana</i>	[25]	Stadin Elbow Cave	United States	NA
<i>Sphalloplana (Sphalloplana) evaginata</i>	[25]	Moles Cave	United States	NA
<i>Dendrocoelum spatiosum</i>	[26]	NA	Spain	unpigmented body, small eyes close together
<i>Kenkia rhynchida</i>	[27]	Malheur Cave	United States	unpigmented body
<i>Sphalloplana (Speophila) pricei</i>	[27]	Brownstone Cave, Refton Cave	United States	unpigmented body
<i>Sphalloplana (Speophila) buchanani</i>	[27]	Mammoth Cave	United States	unpigmented body
<i>Sphalloplana (Sphalloplana) percoeca</i>	[27]	Mammoth Cave	United States	unpigmented body
<i>Phagocata subterranea</i>	[27]	DoOldson's Cave	United States	unpigmented body
<i>Sphalloplana mohri</i>	[28]	caves of Texas, Oklahoma, Arkansas and Missouri	United States	unpigmented body
<i>Sorocelis americana</i>	[28]	Bat Cave	United States	unpigmented body, eyes numerous in paired lateral arcs on the head
<i>Sphalloplana (Sphalloplana) alabamensis</i>	[29]	Old Saltee Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Sphalloplana) virginiana</i>	[29]	Showhalter's Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Sphalloplana) kansensis</i>	[29]	NA	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Speophila) hubrichti</i>	[29]	Morrison's Cave	United States	unpigmented body, adhesive organ
<i>Phagocata cavernicola</i>	[30]	Evac Cave	United States	unpigmented body
<i>Sphalloplana (Sphalloplana) georgiana</i>	[30]	Waterfall Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Speophila) hoffmasteri</i>	[30]	Blowing Cave	United States	unpigmented body, adhesive organ
<i>Kenkia glandulosa</i>	[30]	Rock Bridge Cave	United States	unpigmented body, adhesive organ
<i>Atrioplanaria Morisii</i>	[31]	Tana di S. Luigi	Italy	unpigmented body, small eyes
<i>Eviella hynesae</i>	[32]	NA	Australia	unpigmented body, anterior sensory pits

<i>Dendrocoelum benazzii</i>	[33]	Cave of Stiffe	Italy	unpigmented body
<i>Kenkia glandulosa</i>	[34]	Devil's Icebox or Connors Cave	United States	unpigmented body, adhesive organ
<i>Kenkia lewisi</i>	[34]	Mystery Cave , Tom Moore Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Speophila) hoffmasteri</i>	[34]	Blowhole Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Speophila) hoffmasteri</i>	[35]	Organ Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Sphalloplana) percaeca</i>	[36]	Mammoth Cave	United States	unpigmented body
<i>Opisthobursa mexicana</i>	[37]	Grutas de Coconà	Mexico	unpigmented body
<i>Balliania thetisae</i>	[38]	Maraa Cave	Tahiti	unpigmented body
<i>Novomitchellia sarawakana</i>	[38]	Water Polo Cave	Malaysia	unpigmented body
<i>Dugesia batuensis</i>	[39]	Batu Caves	Malaya	unpigmented body
<i>Atrioplanaria aquaebellae</i>	[40]	NA	Israel	unpigmented body, small eyes
<i>Atrioplanaria racovitzai</i>	[40]	Caves	Rumania	NA
<i>Atrioplanaria prosorchis</i>	[40]	NA	Austria	NA
<i>Atrioplanaria opisthogona</i>	[40]	Caves	Yugoslavia	NA
<i>Atrioplanaria notadena</i>	[40]	NA	France, Germany	NA
<i>Atrioplanaria delamarei</i>	[40]	NA	France	NA
<i>Atrioplanaria notadena</i>	[41]	Grotte de La Balme	France	NA
<i>Phagocata albata</i>	[42]	Na	Japan	unpigmented body
<i>Phagocata tenella</i>	[43]	NA	Japan	unpigmented body, small eyes sometimes supernumerary eyes
<i>Kenkia glandulosa</i>	[44]	Devils Icebox cave	United States	unpigmented body
<i>Kenkia lewisi</i>	[44]	Mystery Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Sphalloplana) evaginata</i>	[44]	NA	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Sphalloplana) hubrichti</i>	[44]	Kohm's Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana (Sphalloplana) percoeca</i>	[45]	NA	United States	unpigmented body, adhesive organ

<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>evaginata</i>	[45]	Klump Cave, Crevice Cave, Berome Moore Cave, Garbage Hole Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>kansensis</i>	[45]	NA	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>californica</i>	[45]	Bower Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>culveri</i>	[45]	Harper Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>consimilis</i>	[45]	Caves	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Sphalloplana</i>) <i>subtilis</i>	[45]	NA	United States	unpigmented body, small adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>virginiana</i>	[45]	Showalter's Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>holsingeri</i>	[45]	NA	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>weingartneri</i>	[45]	Bronsons Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>buchanani</i>	[45]	Mammoth Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>pricei</i>	[45]	Brownstone Cave, Refton Cave, Upper Johnson Cave	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>hubrichti</i>	[45]	NA	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>chandleri</i>	[45]	NA	United States	unpigmented body, adhesive organ
<i>Sphalloplana</i> (<i>Speophila</i>) <i>mohri</i>	[45]	NA	United States	unpigmented body, adhesive organ
<i>Dugesia</i> <i>mckenziei</i>	[46]	La Cueva de los Murciélagos	Mexico	unpigmented body, small eyes
<i>Dugesia</i> <i>typhlomexicana</i>	[47]	La Cueva de Ia Milna	Mexico	unpigmented body, adhesive organ
<i>Dugesia</i> <i>barbarae</i>	[47]	La Cueva de Ia Capilla	Mexico	unpigmented body, adhesive organ
<i>Dendrocoleopsis</i> <i>americana</i>	[48]	NA	United States	unpigmented body
<i>Dendrocoelopsis</i> <i>lactea</i>	[48]	NA	Japan	unpigmented body

Supplementary Table 1: List of all the mentions of groundwater-dwelling planarian species retrieved within the 48 papers selected during the systematic review process carried out. The

locality of origin (when available) and the degree of adaptation to underground life are indicated for each species

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