**Table S1.** List of sponge species hitherto recorded from Ionian Sea (Pansini & Longo, 2003; 2008; Longo *et al*. 2005; 2015; 2017; Mastrototaro *et al*. 2010; Bertolino *et al*. 2017b; Bertolino personal osservation)with new finding for Ionian Sea (\*) recorded in the present paper.

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| **Class Calcarea** |
| **Subclass Calcinea** |
| *Borojevia cerebrum* (Haeckel, 1872) |
| *Clathrina clathrus* (Schmidt, 1864) |
| *Clathrina coriacea* (Montagu, 1818) |
| *Clathrina rubra* Sarà, 1958 |
| *Leucetta solida* (Schmidt, 1862) |
| *Ascandra falcata* Haeckel, 1872 |
| **Subclass Calcaronea** |
| *Paraleucilla magna* Klautau, Monteiro & Borojevic, 2004 |
| *Leucandra crambessa* (Haeckel, 1872) |
| *Leucosolenia variabilis* Haeckel, 1870 |
| *Sycon ciliatum* (Fabricius, 1780) |
| *Sycon raphanus* Schmidt, 1862 |
| *Sycon elegans* (Schmidt, 1868) |
| *Sycon* cf. *humboldti* Risso, 1827 |
| **Class Demospongiae**  **Subclass Heteroscleromorpha** |
| **Order Axinellida** |
| *Agelas oroides* (Schmidt, 1864)  *Hymerhabdia oxytrunca* Topsent, 1904 **\***  *Prosuberites longispinus* Topsent, 1893 |
| *Axinella cannabina* (Esper, 1794) |
| *Axinella damicornis* (Esper, 1794) |
| *Axinella polypoides* Schmidt, 1862 |
| *Axinella rugosa* (Bowerbank, 1866) |
| *Axinella verrucosa* (Esper, 1794) |
| *Didiscus stylifer* Tsurnamal, 1969 |
| *Myrmekioderma spelaeum* (Pulitzer-Finali, 1983) |
| *Eurypon cinctum* Sarà, 1960 **\***  *Eurypon clavatum* (Bowerbank, 1866)  *Eurypon coronula* (Bowerbank, 1874) **\*** |
| *Eurypon denisae* Vacelet, 1969 |
| *Eurypon gracilis* Bertolino, Pansini & Calcinai, 2013 |
| *Eurypon major* Sarà & Siribelli, 1960  *Eurypon obtusum* Vacelet,1969 **\*** |
| *Eurypon topsenti* Pulitzer-Finali, 1983 |
| *Eurypon vescicularis* Sarà & Siribelli, 1960 |
| *Eurypon viride* (Topsent, 1889) |
| *Raspaciona aculeata* (Johnston, 1842) |
| *Raspailia* (*Raspailia*) *virgultosa* (Bowerbank, 1866)  *Raspailia* (*Raspailia*) *viminalis* Schmidt, 1862 **\*** |
| *Higginsia ciccaresei* Pansini & Pesce, 1998 |
| *Paratimea oxeata* Pulitzer-Finali, 1978 |
| *Stelligera stuposa* (Ellis & Solander, 1786)  *Halicnemia geniculata* Sarà, 1958 **\*** |
| **Order Biemnida** |
| *Rhabderemia gallica* van Soest & Hooper, 1993 **\***  *Rhabderemia indica* Dendy, 1905 |
| *Rhabderemia minutula* (Carter, 1876) |
| **Order Bubarida** |
| *Bubaris carcisis* Vacelet, 1969 |
| *Bubaris vermiculata* (Bowerbank, 1866)  *Monocrepidium vermiculatum* Topsent, 1898 **\***  *Rhabdobaris implicata* Pulitzer-Finali, 1983 **\*** |
| *Desmanthus incrustans* (Topsent, 1889) |
| *Acanthella acuta* Schmidt, 1862 |
| *Dictyonella incisa* (Schmidt, 1880) |
| *Dictyonella marsilii* (Topsent, 1893) |
| *Dictyonella obtusa* (Schmidt, 1862) |
| *Dictyonella pelligera* (Schmidt, 1864) |
| *Tethyspira spinosa* (Bowerbank, 1874) |
| **Order Clionaida**  *Cliona amplicavata* Rützler, 1974 **\***  *Cliona burtoni* Topsent, 1932 **\*** |
| *Cliona celata* Grant, 1826 |
| *Cliona janitrix* Topsent, 1932 |
| *Cliona parenzani* Corriero & Liaci, 1997 |
| *Cliona rhodensis* Rützler & Bromley, 1981 |
| *Cliona schmidtii* (Ridley, 1881) |
| *Cliona spissasipra* Corriero & Nonnis Marzano, 2006 |
| *Cliona topsenti* (Lendenfeld, 1896) |
| *Cliona vermifera* Hancock, 1867 |
| *Cliona viridis* Schmidt, 1862 |
| *Cliothosa hancocki* (Topsent, 1888) |
| *Dotona pulchella mediterranea* Rossel & Uriz, 2002 |
| *Pione vastifica* (Hancock, 1849) |
| *Spiroxya heteroclita* Topsent, 1896 |
| *Spiroxya levispira* (Topsent, 1898) |
| *Spiroxya sarai* (Melone, 1965) |
| *Volzia albicans* (Volz, 1939) |
| *Placospongia decorticans* (Hanitsch, 1895) |
| *Diplastrella bistellata* (Schmidt, 1862)  *Diplastrella boeroi* Bertolino, Costa & Pansini (Present paper) |
| *Diplastrella ornata* Rützler & Sarà, 1962 |
| *Spirastrella cunctatrix* Schmidt, 1868  *Spirastrella angulata* Bertolino, Costa & Pansini (Present paper) |
| **Order Desmacellida** |
| *Desmacella annexa* (Schmidt, 1870) |
| *Desmacella inornata* (Bowerbank, 1866) |
| **Order Haplosclerida** |
| *Dendroxea lenis* (Topsent, 1892) |
| *Dendroxea adumbrta* Corriero et al., 1996 |
| *Haliclona* (*Flagellia*) *flagellifera* (Ridley & Dendy, 1886) |
| *Haliclona* (*Gellius*) *angulata* (Bowerbank, 1866) |
| *Haliclona* (*Gellius*) *dubia* (Babic, 1922) |
| *Haliclona* (*Gellius*) *fibulata* (Schmidt, 1862) |
| *Haliclona* (*Halichoclona*) *fulva* (Topsent, 1893) |
| *Haliclona* (*Halichoclona*) *perlucida* (Griessinger, 1971) |
| *Haliclona* (*Haliclona*) *varia* (Sarà, 1958) |
| *Haliclona* (*Reniera*) *cinerea* (Bowerbank, 1866) |
| *Haliclona* (*Reniera*) *cratera* (Schmidt, 1862) |
| *Haliclona* (*Reniera*) *mediterranea* Griessinger, 1971 |
| *Haliclona* (*Rhizoniera*) *sarai* (Pulitzer-Finali, 1969) |
| *Haliclona* (*Rhizoniera*) *viscosa* (Topsent, 1888)  *Haliclona* (*Soestella*) *mucosa* (Griessinger, 1971) **\***  *Haliclona* (*Soestella*) *valliculata* (Griessinger, 1971) **\*** |
| *Haliclona* *palmata* (Ellis & Solander, 1791) |
| *Haliclona* *stirpescens* (Topsent, 1925)  *Gelliodes fibulata* (Carter, 1881) **\*** |
| *Petrosia (Petrosia) clavata* (Esper, 1794)  *Petrosia* (*Petrosia*) *ficiformis* (Poiret, 1789)  *Petrosia* (*Strongylophora*) *pulitzeri* Pansini, 1996 **\***  *Petrosia* (*Strongylophora*) *vansoesti* Boury-Esnault, Pansini & Uriz, 1994 **\*** |
| *Calyx* *nicaeensis* (Risso, 1826) |
| *Oceanapia* *isodictyiformis* (Carter, 1882)  *Oceanapia perforata* (Sarà,1960) **\*** |
| *Siphonodictyon* *infestum* (Johnson, 1889) |
| **Order Merlida** |
| *Hamacantha* (*Hamacantha*) *implicans* Lundbeck, 1902 |
| *Hamacantha* (*Hamacantha*) *johnsoni* (Bowerbank, 1864) |
| *Merlia* *normani* Kirkpatrick, 1908 |
| **Order Poecilosclerida** |
| *Acarnus polytylus* Pulitzer-Finali, 1983 |
| *Acarnus tortilis* Topsent, 1892 |
| *Batzella inops* (Topsent, 1891) |
| *Lissodendoryx* (*Anomodoryx*) *cavernosa* (Topsent, 1892) |
| *Crambe crambe* (Schmidt, 1862) |
| *Crella* (*Pytheas*) *fusifera* Sarà, 1969 |
| *Crella* (*Yvesia*) *rosea* (Topsent, 1892) |
| *Crellastrina* *alecto* (Topsent, 1898) |
| *Ulosa stuposa* (Esper, 1794) |
| *Ulosa tenellula* Pulitzer-Finali, 1983 |
| *Hamigera hamigera* (Schmidt, 1862) |
| *Hemimycale* *columella* (Bowerbank, 1874) |
| *Hymedesmia* (*Hymedesmia*) *mutabilis* Topsent, 1904 |
| *Hymedesmia* (*Hymedesmia*) *pansa* Bowerbank, 1882  *Hymedesmia* (*Hymedesmia*) *paupertas* (Bowerbank, 1866) **\*** |
| *Hymedesmia* (*Hymedesmia*) *peachi* Bowerbank, 1882 |
| *Hymedesmia* (*Hymedesmia*) *versicolor* (Topsent, 1893) |
| *Hymedesmia* (*Stylopus*) *dujardini* (Bowerbank, 1866) |
| *Phorbas* *dives* (Topsent, 1891) |
| *Phorbas fibulatus* Bowerbank, 1866 |
| *Phorbas fictitius* Bowerbank, 1866 |
| *Phorbas mercator* Schmidt, 1868 |
| *Phorbas paupertas* sensu Boury-Esnault, 1971 |
| *Phorbas tenacior* (Topsent, 1925) |
| *Phorbas topsenti* Vacelet & Perez, 2008 |
| *Plocamionida ambigua* (Bowerbank, 1866) |
| *Spanioplon armaturum* (Bowerbank, 1866) |
| *Sceptrella insignis* (Topsent, 1892) |
| *Clathria* (*Clathria*) *coralloides* (Olivi, 1792) |
| *Clathria* (*Clathria*) *toxistyla* (Sarà, 1959) |
| *Clathria* (*Clathria*) *toxistricta* (Topsent, 1925) |
| *Clathria* (*Clathria*) *toxivaria* (Sarà, 1959) |
| *Clathria* (*Microciona*) *armata* (Bowerbank, 1866) |
| *Clathria* (*Microciona*) *cleistochela* (Topsent, 1925) |
| *Clathria* (*Microciona*) *gradalis* (Topsent, 1925) |
| *Clathria* (*Microciona*) *macrochela* (Lévi, 1960) |
| *Clathria* (*Microciona*) *spinarcus* (Carter & Hope, 1889) |
| *Clathria* (*Microciona*) *strepsitoxa* (Hope, 1889) |
| *Clathria* (*Microciona*) *toxitenuis* (Topsent, 1925) |
| *Antho* (*Antho*) *involvens* (Schmidt, 1864) |
| *Antho* (*Acarnia*) *signata* (Topsent, 1904) |
| *Mycale* (*Aegogropila*) *contarenii* (Martens, 1824) |
| *Mycale* (*Aegogropila*) *syrinx* (Schmidt, 1862) |
| *Mycale* (*Aegogropila*) *tunicata* (Schmidt, 1862) |
| *Mycale* (*Mycale*) *lingua* (Bowerbank, 1866) |
| *Mycale* (*Mycale*) *massa* (Schmidt, 1862) |
| *Myxilla* (*Myxilla*) *iotrochotina* (Topsent, 1892) |
| *Myxilla* (*Myxilla*) *rosacea* (Lieberkühn, 1859) |
| *Negombata* *corticata* (Carter, 1879) |
| *Tedania* (*Tedania*) *anhelans* (Lieberkühn, 1859) |
| **Order Suberitida** |
| *Amorphinopsis* *pallescens* (Topsent, 1892) |
| *Axynissa* *aurantiaca* (Schmidt, 1864) |
| *Halichondria* (*Halichondria*) cf. *bowerbanki* Burton, 1930  *Halichondria* (*Halichondria*) *contorta* (Sarà, 1961) **\*** |
| *Halichondria* (*Halichondria*) *genitrix* Schmidt, 1870 |
| *Halichondria* (*Halichondria*) *panicea* (Pallas, 1766) |
| *Halichondria* (*Halichondria*) *semitubulosa* (Lamarck, 1813) |
| *Hymeniacidon perlevis* (Montagu, 1818) |
| *Spongosorites flavens* Pulitzer-Finali, 1983 |
| *Spongosorites intricatus* (Topsent, 1892) |
| *Topsentia glabra* (Topsent, 1898) |
| *Aaptos aaptos* (Schmidt, 1864) |
| *Protosuberites epiphytum* (Lamarck, 1815) |
| *Pseudosuberites sulphureus* (Bowerbank, 1866) |
| *Suberites* *carnosus* (Johnston, 1842) |
| *Suberites domuncula* (Olivi, 1792) |
| *Suberites* *syringella* (Schmidt, 1868) |
| *Terpios* *gelatinosus* (Bowerbank, 1866) |
| *Terpios* *fugax* (Duchassaing & Michelotti, 1864) |
| **Order Tethyda** |
| *Tethya aurantium* (Pallas, 1766) |
| *Tethya citrina* Sarà & Melone, 1965 |
| *Timea bifidostellata* Pulitzer-Finali, 1983 |
| *Timea* *chondrilloides* (Topsent, 1904) |
| *Timea crassa* (Topsent, 1900) |
| *Timea fasciata* Topsent, 1934 |
| *Timea simplicistellata* Pulitzer-Finali, 1983 |
| *Timea stellata* (Bowerbank, 1866) |
| *Timea unistellata* (Topsent, 1892) |
| **Order Tetractinellida** |
| *Ancorina cerebrum*Schmidt, 1862 **\***  *Dercitus* (*Stoeba*) *dissimilis* (Sarà, 1959) |
| *Dercitus* (*Stoeba*) *plicatus* (Schmidt, 1868) |
| *Holoxea furtiva* Topent, 1892 |
| *Jaspis incrustans* (Topsent, 1890) |
| *Jaspis* *johnstoni* (Schmidt, 1862) |
| *Stelletta grubii* Schmidt, 1862 |
| *Stelletta lactea* Carter, 1871  *Stelletta mediterranea* (Topsent, 1893) **\*** |
| *Stelletta pumex* (Nardo, 1847) |
| *Stelletta stellata* Topsent, 1893 |
| *Stryphnus mucronatus* (Schmidt, 1868) |
| *Calthropella* (*Calthropella*) *pathologica* (Schmidt, 1868) |
| *Calthropella* (*Corticellopsis*) *recondita* Pulitzer-Finali, 1983  *Calthropella* (*Corticellopsis*) *stelligera* (Schmidt, 1868) **\*** |
| *Erylus discophorus* (Schmidt, 1862) |
| *Erylus papulifer* Pulitzer-Finali, 1983 |
| *Penares helleri* (Schmidt, 1864) |
| *Penares euastrum* (Schmidt, 1868) |
| *Geodia anceps* (Vosmaer, 1894) |
| *Geodia conchilega* Schmidt, 1862 |
| *Geodia cydonium* (Jameson, 1811) |
| *Geodia nodastrella* Carter, 1876 |
| *Nethea amygdaloides* (Carter, 1876) |
| *Pachastrella monilifera* Schmidt, 1868 |
| *Triptolemma simplex* (Sarà, 1959) |
| *Thenea muricata* (Bowerbank, 1858) |
| *Thromb us abyssi* (Carter, 1873) |
| *Poecillastra compressa* (Bowerbank, 1866) |
| *Vulcanella* (*Vulcanella*) *gracilis* (Sollas, 1888) |
| *Leiodermatium lynceus* Schmidt, 1870 |
| *Samus anonymus* Gray, 1867 |
| *Siphonidium ramosum* (Schmidt, 1870) |
| *Cinachyrella tarentina* (Pulitzer-Finali, 1983) |
| *Alectona millari* Carter, 1879 |
| *Delectona ciconiae* Bavestrello, Calcinai & Sarà, 1996  *Delectona madreporica* Bavestrello, Calcinai, Cerrano & Sarà, 1997 **\*** |
| *Thoosa armata* Topsent, 1888 |
| *Thoosa mollis* Volz, 1939 |
| **SubClass Verongimorpha** |
| **Order Chondrillida** |
| *Chondrilla* *nucula* Schmidt, 1862 |
| **Order Chondrosiida** |
| *Chondrosia* *reniformis* Nardo, 1847 |
| **Order Verongiida** |
| *Aplysina* *aerophoba* Schmidt, 1862 |
| *Aplysina* *cavernicola* Vacelet, 1959 |
| *Hexadella* *dedritifera* Topsent, 1913 |
| *Hexadella* *racovitzai* Topsent, 1896 |
| **Subclass Keratosa** |
| **Order Dendroceratida** |
| *Aplysilla* *rosea* (Barrois, 1876) |
| *Spongionella pulchella* (Sowerby, 1806) |
| *Spongionella* *gracilis* (Vosmaer, 1883) |
| **Order Dictyoceratida** |
| *Dysidea* *avara* (Schmidt, 1862) |
| *Dysidea* *fragilis* (Montagu, 1818) |
| *Dysidea incrustans* (Schmidt, 1862) |
| *Pleraplysilla spinifera* (Schulze, 1878) |
| *Ircinia dendroides* (Schmidt, 1862) |
| *Ircinia oros* (Schmidt, 1864)  *Ircinia retidermata* (Pulitzer-Finali & Pronzato, 1981) |
| *Ircinia variabilis* (Schmidt, 1862) |
| *Sarcotragus* *foetidus* Schmidt, 1862 |
| *Sarcotragus* *spinosulus* Schmidt, 1862 |
| *Hippospongia* *communis* (Lamarck, 1813) |
| *Spongia* (*Spongia*) *lamella* (Schulze, 1879) |
| *Spongia* (*Spongia*) *nitens* (Schmidt, 1862) |
| *Spongia* (*Spongia*) *officinalis* Linneus, 1759 |
| *Spongia* (*Spongia*) *virgultosa* (Schmidt, 1868) |
| *Cacospongia* *mollior* Schmidt, 1862 |
| *Fasciospongia* *cavernosa* (Schmidt, 1862) |
| *Scalarispongia* *scalaris* (Schmidt, 1862) |
| **Class Hexatinellida** |
| **Subclass Amphidiscophora** |
| *Pheronema carpenteri* (Thomson, 1869) |
| **Subclass Hexasterophora** |
| *Tretodictyum tubulosum* Schulze, 1886 |
| **Class Homoscleromorpha** |
| *Oscarella lobularis* (Schmidt, 1862)  *Oscarella* cf. *tuberculata* (Schmidt, 1868) **\*** |
| *Corticium candelabrum* Schmidt, 1862 |
| *Plakina bowerbanki* (Sarà, 1960)  *Plakina dilopha* Schulze, 1880 **\***  *Plakina monolopha* Schulze, 1879 |
| *Plakina trilopha* Schulze, 1880 |
| *Plakina reducta* (Pulitzer-Finali, 1983) |
| *Plakortis simplex* Schulze, 1880 |