

## Mediterranean Marine Science

Vol 18, No 3 (2017)



### Aristotle's scientific contributions to the classification, nomenclature and distribution of marine organisms

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doi: [10.12681/mms.13874](https://doi.org/10.12681/mms.13874)

#### To cite this article:

VOULTSIADOU, E., GEROVASILEIOU, V., VANDEPITTE, L., GANIAS, K., & ARVANITIDIS, C. (2018). Aristotle's scientific contributions to the classification, nomenclature and distribution of marine organisms. *Mediterranean Marine Science*, 18(3), 468–478. <https://doi.org/10.12681/mms.13874>

*Supplementary Data*

**Aristotle's scientific contributions to the classification, nomenclature  
and distribution of marine organisms**

**ELENI VOULTSIADOU, VASILIS GEROVASILEIOU, LEEN VANDEPITTE,  
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*Mediterranean Marine Science, 2017, 18 (3)*

**Table S1.** Aristotle's classification ranks of marine animals and identified current taxa. Identification was mostly based on previous publications, i.e. Voultziadou and Vafidis (2007), Voultziadou *et al.* (2010) and Ganias *et al.* (2017).

Rank 4	Rank 3	Rank 2	Rank 1	Identified as
Anhaima	Spongoi		spongos acheilios/σπόγγος Ἀχιλλεῖος	<i>Spongia (Spongia) lamella</i> (Schulze, 1879)
Anhaima	Spongoi		spongos aplysias/σπόγγος ἀπλυσίας	<i>Sarcotragus foetidus</i> Schmidt, 1862
Anhaima	Spongoi		spongos manos/σπόγγος μανός	<i>Hippospongia communis</i> (Lamarck, 1814)
Anhaima	Spongoi		spongos ryknos/σπόγγος ρυκνός	<i>Spongia (Spongia) officinalis</i> Linnaeus, 1759
Anhaima	Spongoi		spongos tragos/σπόγγος τράγος	<i>Spongia (Spongia) zimocca</i> Schmidt, 1862
Anhaima	Acalyphes		acalyphē edodimos/ακαλύφη ἐδώδιμος	<i>Anemonia viridis</i> (Forsskål, 1775)
Anhaima	Acalyphes		acalyphē sklērē/ακαλύφη σκληρή	<i>Actinia equina</i> (Linnaeus, 1758)
Anhaima			aspis/ασπίς	<i>Antedon mediterranea</i> (Lamarck, 1816)
Anhaima			dokias/δοκίας	Holothuriidae sp.
Anhaima			oistros ton thynnon/οἰστρος των θύννων	<i>Caligus</i> sp.
Anhaima			phtheir thalattia/φθειρ θαλαττία	Cymothoidae sp.
Anhaima			psyllos thalattios/ψύλλος θαλάττιος	Amphipoda sp.
Anhaima			holothourion/όλοθούριον	<i>Alcyonium palmatum</i> Pallas, 1766
Anhaima			pneumōn/πνεύμων	<i>Pelagia noctiluca</i> (Forsskål, 1775)
Anhaima			aidoion andros/αἰδοῖον ἀνδρός	<i>Bonellia viridis</i> Rolando, 1822
Anhaima			scolopendra thalassia/σκολοπένδρα θαλαττία	<i>Hermodice carunculata</i> (Pallas, 1766)
Anhaima	Malakia	Polypodes	eledonē/ἐλεδόνη	<i>Eledone moschata</i> (Lamarck, 1798)
Anhaima	Malakia	Polypodes	nautilus/ναυτίλος	<i>Argonauta argo</i> Linnaeus, 1758
Anhaima	Malakia	Polypodes	polyrodōn megiston genos/πολυπόδων μέγιστον γένος	<i>Octopus vulgaris</i> Cuvier, 1797
Anhaima	Malakia	Polypodes	polyrous en ostrakōi/πολύπους ἐν ὀστράκῳ	<i>Nautilus</i> sp.1
Anhaima	Malakia	Sēpia	sēpia/σηπία	<i>Sepia officinalis</i> Linnaeus, 1758
Anhaima	Malakia	Teuthis	teuthis/τευθίς	<i>Loligo vulgaris</i> Lamarck, 1798
Anhaima	Malakia	Teuthos	teuthos/τευθος	<i>Todarodes sagittatus</i> (Lamarck, 1798)
Anhaima	Malakostraka	Karaboeidē	arktos/ἄρκτος	<i>Scyllarus arctus</i> (Linnaeus, 1758)
Anhaima	Malakostraka	Karaboeidē	astakos/ἄστακος	<i>Homarus gammarus</i> (Linnaeus, 1758)
Anhaima	Malakostraka	karaboeidē	karabos/κάραβος	<i>Palinurus elephas</i> (Fabricius, 1787)
Anhaima	Malakostraka	Karides	karidion/καρίδιον	<i>Pontonia pinnophylax</i> (Otto, 1821)
Anhaima	Malakostraka	Karides	krangōn/κραγγών	<i>Squilla mantis</i> (Linnaeus, 1758)
Anhaima	Malakostraka	Karides	karides kyphai/καρίδες κυφαί	Penaeidae sp.
Anhaima	Malakostraka	Karides	mikron genos/μικρόν γένος	Natantia sp.
Anhaima	Malakostraka	Karides	pinnophylax spongōn/πιννοφύλαξ σπόγγων	Alpheidae sp.
Anhaima	Malakostraka	Karkinia	karkinion/καρκίνιον	Paguridae sp.
Anhaima	Malakostraka	Karkinia	kyllaros/κύλλαρος	Diogenidae sp.
Anhaima	Malakostraka	Karkinoi	heracleōtikos/ἠρακλεωτικός	<i>Calappa granulata</i> (Linnaeus, 1758)
Anhaima	Malakostraka	Karkinoi	hippos/ἵππος	<i>Ocyrope cursor</i> (Linnaeus, 1758)
Anhaima	Malakostraka	Karkinoi	karkinos mikros/καρκίνος μικρός	<i>Liocarcinus depurator</i> (Linnaeus, 1758)
Anhaima	Malakostraka	Karkinoi	karkinos potamios/καρκίνος ποτάμιος	<i>Potamon fluviatile</i> (Herbst, 1785)
Anhaima	Malakostraka	Karkinoi	maia/μαῖα	<i>Maja squinado</i> (Herbst, 1788)
Anhaima	Malakostraka	Karkinoi	mikron genos omoion astakois/μικρόν γένος ὁμοίων ἀστακοῖς	Galatheidae sp.
Anhaima	Malakostraka	Karkinoi	pagouros/πάγουρος	<i>Eriphia verrucosa</i> (Forskål, 1775)
Anhaima	Malakostraka	Karkinoi	pinnophylax/πιννοφύλαξ	<i>Pinnotheres pisum</i> (Linnaeus, 1767)
Anhaima	Ostracoderma	Asteres	astēr/ἀστήρ	Astropectinidae sp.
Anhaima	Ostracoderma	Dithyra	balanos/βάλανος	<i>Pholas dactylus</i> Linnaeus, 1758
Anhaima	Ostracoderma	Dithyra	chēmē tracheia/χήμε τραχεία	Veneridae sp.
Anhaima	Ostracoderma	Dithyra	conchē/κόγχη	Bivalvia sp.2
Anhaima	Ostracoderma	Dithyra	conchos arhabdōtos/κόγχος ἀρράβδωτος	Bivalvia sp.1
Anhaima	Ostracoderma	Dithyra	conchos rhabdōtos/κόγχος ραβδωτός	Cardiidae sp.
Anhaima	Ostracoderma	Dithyra	galax 1/γάλαξ 1	Donacidae sp.
Anhaima	Ostracoderma	Dithyra	galax 2/γάλαξ 2	Mactridae sp.
Anhaima	Ostracoderma	Dithyra	kteis/κτεῖς	Pectinidae sp.

(continued)

Table S1 (continued)

Rank 4	Rank 3	Rank 2	Rank 1	Identified as
Anhaima	Ostracoderma	Dithyra	limnostreon/λιμνόστρεον	<i>Ostrea edulis</i> Linnaeus, 1758
Anhaima	Ostracoderma	Dithyra	mys/μυς	<i>Mytilus galloprovincialis</i> Lamarck, 1819
Anhaima	Ostracoderma	Dithyra	pinna/πίννα	<i>Pinna nobilis</i> Linnaeus, 1758
Anhaima	Ostracoderma	Dithyra	sōlēn/σωλήν	Solenidae sp.
Anhaima	Ostracoderma	Echinoi	bryssos/βρύσσοσ	Echinoidea sp.1
Anhaima	Ostracoderma	Echinoi	echinomētra/έχινομήτρα	<i>Sphaerechinus granularis</i> (Lamarck, 1816)
Anhaima	Ostracoderma	Echinoi	echinōn genos mikron/έχίνων γένος μικρόν	<i>Cidaris cidaris</i> (Linnaeus, 1758)
Anhaima	Ostracoderma	Echinoi	echinos lefkos/έχίνος λευκός	<i>Brissus unicolor</i> (Leske, 1778)
Anhaima	Ostracoderma	Echinoi	spatangēs/σπατάγγης	Echinoidea sp.2
Anhaima	Ostracoderma	Echinoi	esthiomenon genos/έσθιόμενον γένος	<i>Paracentrotus lividus</i> (Lamarck, 1816)
Anhaima	Ostracoderma	Monothyra	lepas/λεπάς	<i>Patella caerulea</i> Linnaeus, 1758
Anhaima	Ostracoderma	Monothyra	lepas agria/λεπάς άγρία	<i>Haliotis tuberculata</i> Linnaeus, 1758
Anhaima	Ostracoderma	Strombode	haimorrhōis/αίμορροίς	Gastropoda sp.
Anhaima	Ostracoderma	Strombode	kēryx/κήρυξ	<i>Charonia variegata</i> (Lamarck, 1816)
Anhaima	Ostracoderma	Strombode	nēreitēs/νηρείτης	<i>Phorus turbinatus</i> (Born, 1778)
Anhaima	Ostracoderma	Strombode	porphura 1/πορφύρα 1	Muricidae sp.1
Anhaima	Ostracoderma	Strombode	porphura 2/πορφύρα 2	Muricidae sp.2
Anhaima	Ostracoderma	Strombode	porphura 3/πορφύρα 3	Muricidae sp.3
Anhaima	Ostracoderma	Strombode	strombos/στρόμβος	<i>Cerithium vulgatum</i> Bruguière, 1792
Anhaima	Ostracoderma	Tethya	tēthyon/τήθυον	<i>Microcosmus sabatieri</i> Roule, 1885
Enhaima	Ichthyes	Lepidotoi	amia/άμια	Scombridae sp.
Enhaima	Ichthyes	Lepidotoi	anthias/άνθιας	<i>Anthias anthias</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	atherinē/άθερίνη	<i>Atherina hepsetus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	balagros/βάλαγρος	Actinopterygii sp.1
Enhaima	Ichthyes	Lepidotoi	baleros/βάλερος	Actinopterygii sp.10
Enhaima	Ichthyes	Lepidotoi	batrachos/βάτραχος	<i>Lophius</i> sp.
Enhaima	Ichthyes	Lepidotoi	belonē/βελόνη	<i>Syngnathus acus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	boax/βόαξ	Actinopterygii sp.14
Enhaima	Ichthyes	Lepidotoi	chalkeus/χαλκεύς	<i>Zeus faber</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	chalkis/χαλκίς	Clupeiformes sp.1
Enhaima	Ichthyes	Lepidotoi	chanē/χάννη	<i>Serranus</i> sp.1
Enhaima	Ichthyes	Lepidotoi	chelidōn/χελιδών	<i>Hirundichthys rondeletii</i> (Valenciennes, 1847)
Enhaima	Ichthyes	Lepidotoi	chremps/χρέμψ	Sciaenidae sp.2
Enhaima	Ichthyes	Lepidotoi	chromis/χρόμις	Sciaenidae sp.3
Enhaima	Ichthyes	Lepidotoi	chrysophrys/χρύσοφρυς	<i>Sparus aurata</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	daskilos/δάσκιλος	<i>Mullus surmuletus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	drakon/δράκων	<i>Trachinus draco</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	echeneis/έχενής	<i>Echeneis naucrates</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	eleginos/έλεγίνος	Actinopterygii sp.17
Enhaima	Ichthyes	Lepidotoi	ellops/έλλοψ	Actinopterygii sp.18
Enhaima	Ichthyes	Lepidotoi	enchelys/έγγελυς	<i>Anguilla anguilla</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	encrasicholos/έγκρασίχολος	Clupeiformes sp.2
Enhaima	Ichthyes	Lepidotoi	epitragias/έπιτραγιάς	<i>Carassius carassius</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	erythrinος/έρυθρίνος	<i>Pagellus erythrinus</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	etelis/έτελις	Actinopterygii sp.19
Enhaima	Ichthyes	Lepidotoi	foxinos/φοξίνος	Actinopterygii sp.13
Enhaima	Ichthyes	Lepidotoi	galē/γαλή	Actinopterygii sp.15
Enhaima	Ichthyes	Lepidotoi	glanis/γλάνις	<i>Silurus aristotelis</i> Garman, 1890
Enhaima	Ichthyes	Lepidotoi	glaukos/γλαυκος	Actinopterygii sp.16
Enhaima	Ichthyes	Lepidotoi	gongros/γόνγγρος	<i>Conger conger</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	helōn/χελών	Mugilidae sp.3
Enhaima	Ichthyes	Lepidotoi	hēpatos/ήπατος	Actinopterygii sp.20
Enhaima	Ichthyes	Lepidotoi	hippouros/ ίππουρος	<i>Coryphaena hippurus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	ioulis/ιουλίς	<i>Labrus mixtus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	kalliōnymos/καλλιώνυμος	<i>Uranoscopus scaber</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	kantharos/κάνθαρος	Actinopterygii sp.21
Enhaima	Ichthyes	Lepidotoi	kapros/κάπρος	Actinopterygii sp.11
Enhaima	Ichthyes	Lepidotoi	kephalos/κέφαλος	<i>Mugil cephalus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	kicklē/κίχλη	Labridae sp.1
Enhaima	Ichthyes	Lepidotoi	kitharos/κίθαρος	Pleuronectiformes sp.3
Enhaima	Ichthyes	Lepidotoi	kōbios/κωβιός	Gobiidae spp.
Enhaima	Ichthyes	Lepidotoi	kokkyx/κόκκυξ	Triglidae sp.2
Enhaima	Ichthyes	Lepidotoi	kolias/κολιάς	<i>Scomber colias</i> Gmelin, 1789
Enhaima	Ichthyes	Lepidotoi	korakinos/κορακίνος	<i>Chromis chromis</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	kossyphos/κόσσυφος	Labridae sp.2
Enhaima	Ichthyes	Lepidotoi	kottos/κόττος	<i>Barbus</i> sp.

(continued)

Table S1 (continued)

Rank 4	Rank 3	Rank 2	Rank 1	Identified as
Enhaima	Ichthyes	Lepidotoi	kyprinos/κυπρίνος	<i>Cyprinus carpio</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	labrax/λάβραξ	<i>Dicentrarchus labrax</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	lyra/λύρα	Triglidae sp.1
Enhaima	Ichthyes	Lepidotoi	maenis/μαινίς	<i>Spicara</i> sp.1
Enhaima	Ichthyes	Lepidotoi	melanourous/μελάνουρος	<i>Oblada melanura</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	mormyros/μόρμυρος	Actinopterygii sp.3
Enhaima	Ichthyes	Lepidotoi	muraena/μύραινα	<i>Muraena helena</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	myrinos/μύρινος	Mugilidae sp.2
Enhaima	Ichthyes	Lepidotoi	myxōn/μύξων	Mugilidae sp.1
Enhaima	Ichthyes	Lepidotoi	onos/όνος	<i>Phycis blennoides</i> (Brünnich, 1768)
Enhaima	Ichthyes	Lepidotoi	orkys/ὄρκυς	<i>Orcynopsis</i> sp.
Enhaima	Ichthyes	Lepidotoi	orphōs/ὄρφως	<i>Epinephelus</i> spp.
Enhaima	Ichthyes	Lepidotoi	pēlamys/πηλαμύς	<i>Sarda sarda</i> (Bloch, 1793)
Enhaima	Ichthyes	Lepidotoi	peraeas/περαιάς	Blenniidae sp.1
Enhaima	Ichthyes	Lepidotoi	perkē/πέρκη	<i>Perca fluviatilis</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	phagros/φάγρος	<i>Pagrus pagrus</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	phōlis/φωλίς	Blenniidae sp.2
Enhaima	Ichthyes	Lepidotoi	phykis/φυκίς	Labridae sp.3
Enhaima	Ichthyes	Lepidotoi	primadiae/πριμαδίαι	Pleuronectiformes sp.2
Enhaima	Ichthyes	Lepidotoi	psētta/ψηττα	Pleuronectiformes sp.1
Enhaima	Ichthyes	Lepidotoi	salpē/σάλπη	<i>Sarpa salpa</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	saperdis/σαπερδίς	Actinopterygii sp.4
Enhaima	Ichthyes	Lepidotoi	sarginos/σαργίνος	Actinopterygii sp.5
Enhaima	Ichthyes	Lepidotoi	sargos/σαργός	<i>Diplodus sargus sargus</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	sauros/σαῦρος	Actinopterygii sp.6
Enhaima	Ichthyes	Lepidotoi	sinodōn/σινόδων	<i>Serranus</i> sp.2
Enhaima	Ichthyes	Lepidotoi	skaros/σκάρος	<i>Sparisoma cretense</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	skiaena/σκίαινα	Sciaenidae sp.1
Enhaima	Ichthyes	Lepidotoi	skombros/σκόμβρος	<i>Scomber scombrus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	skorpios/σκορπίος	<i>Scorpaena</i> spp.
Enhaima	Ichthyes	Lepidotoi	smaris/σμαρίς	<i>Spicara</i> sp.2
Enhaima	Ichthyes	Lepidotoi	sparos/σπάρος	Actinopterygii sp.7
Enhaima	Ichthyes	Lepidotoi	sphyraena/σφύραινα	Actinopterygii sp.9
Enhaima	Ichthyes	Lepidotoi	synagris/συναγρίς	Actinopterygii sp.8
Enhaima	Ichthyes	Lepidotoi	taenia/ταινία	<i>Cepola macrophthalma</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Lepidotoi	thynnos/θύννος	<i>Thunnus</i> spp.
Enhaima	Ichthyes	Lepidotoi	tilōn/τίλων	Actinopterygii sp.12
Enhaima	Ichthyes	Lepidotoi	triglē/τρίγλη	<i>Mullus barbatus barbatus</i> Linnaeus, 1758
Enhaima	Ichthyes	Lepidotoi	xiphias/ξιφιάς	<i>Xiphias gladius</i> Linnaeus, 1758
Enhaima	Ichthyes	Selachii	aetos/ἄετός	Elasmobranchii sp.1
Enhaima	Ichthyes	Selachii	akanthias/galeos	<i>Squalus acanthias</i> Linnaeus, 1758
Enhaima	Ichthyes	Selachii	alōrex/ἀλώπηξ	Elasmobranchii sp.2
Enhaima	Ichthyes	Selachii	asterias/ἄστεριας	<i>Scyliorhinus stellaris</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Selachii	batos/βατίς	<i>Raja</i> sp.
Enhaima	Ichthyes	Selachii	bous/βους	<i>Dasyatis</i> sp.
Enhaima	Ichthyes	Selachii	lamia/λάμια	Elasmobranchii sp.3
Enhaima	Ichthyes	Selachii	leiobatos/λειόβατος	Myliobatidae sp.
Enhaima	Ichthyes	Selachii	leios/galeos	<i>Mustelus mustelus</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Selachii	narkē/νάρκη	<i>Torpedo</i> sp.
Enhaima	Ichthyes	Selachii	pristis/πρίστις	Elasmobranchii sp.4
Enhaima	Ichthyes	Selachii	rhinē/ρίνη	<i>Squatina</i> sp.
Enhaima	Ichthyes	Selachii	rhinobatos/ρινόβατος	<i>Rhinobatos</i> sp.
Enhaima	Ichthyes	Selachii	skyllion/σκύλλιον	<i>Scyliorhinus canicula</i> (Linnaeus, 1758)
Enhaima	Ichthyes	Selachii	trygōn/τρυγών	<i>Mobula mobular</i> (Bonnaterre, 1788)
Enhaima	Ichthyes	Selachii	zygaena/ζύγαινα	Elasmobranchii sp.5
Enhaima	Ichthyes		acharnas/ἄχαρνας	Pisces sp.1
Enhaima	Ichthyes		phtheir/φθειρ	Pisces sp.3
Enhaima	Ichthyes		thratta/θράττα	Pisces sp.4
Enhaima	Ichthyes		thrissa/θρίσσα	Pisces sp.2
Enhaima	Ketode		delphis/δέλφης	Delphinidae
Enhaima	Ketode		mystacocētos/μυστακόκητος	<i>Balaenoptera physalus</i> (Linnaeus, 1758)
Enhaima	Ketode		phalaena/φάλαινα	<i>Physeter macrocephalus</i> Linnaeus, 1758
Enhaima	Ketode		phocaena/φώκαινα	<i>Phocoena phocoena relicta</i> Abel, 1905
Enhaima	Ootoka		chelōnē thalattia/χελώνη θαλαττία	<i>Caretta caretta</i> (Linnaeus, 1758)
Enhaima	tetrapoda			
Enhaima	Zootoka		phōkē/φώκη	<i>Monachus monachus</i> (Hermann, 1779)
	tetrapoda			