

**Bibliography database of living/fossil sharks, rays and chimaeras
(Chondrichthyes: Elasmobranchii, Holocephali)**

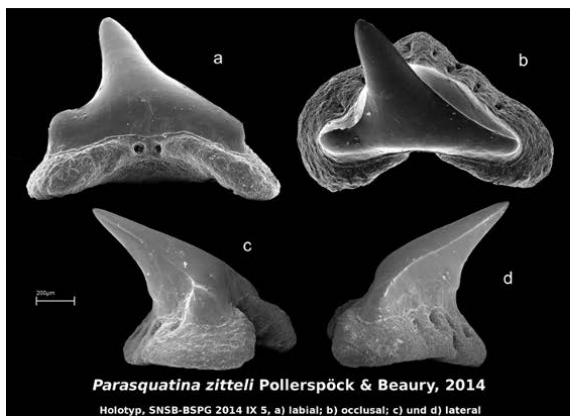
Papers of the year 2014

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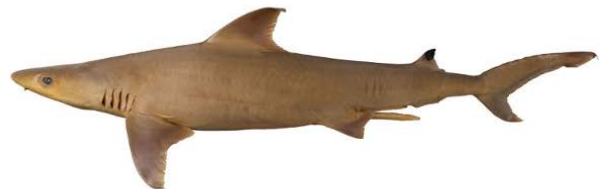
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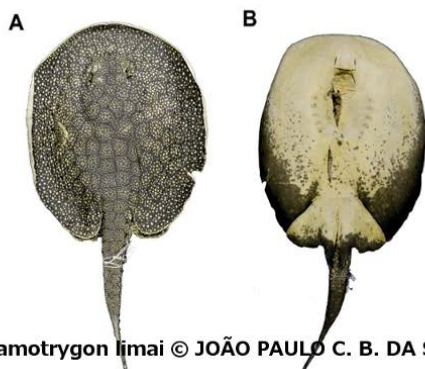
DOI: 10.13140/2.1.3033.1205



Parasquatina zittelli Pollerspöck & Beaury, 2014
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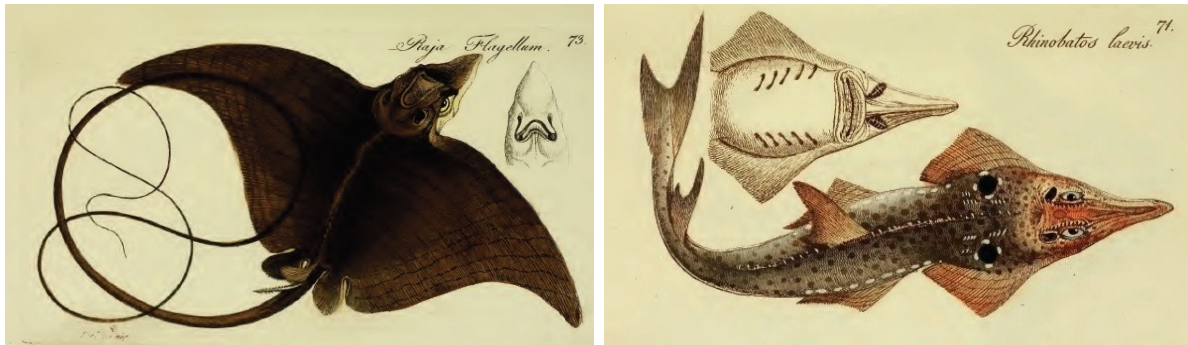
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Potamotrygon limai © JOÃO PAULO C. B. DA SILVA



Chimaera orientalis © Arturo Angulo Sibaja



Abstract: This paper contains a collection of 1099 citations (685 articles and 414 conference abstracts) on topics related to extant and extinct Chondrichthyes (sharks, rays, and chimaeras) as well as a list of Chondrichthyan species and hosted parasites newly described in 2014. The list is the result of regular queries in numerous journals, books and online publications. It provides a complete list of publication citations as well as a database report containing rearranged subsets of the list sorted by the keyword statistics, extant and extinct genera and species descriptions from the years 2000 to 2014, list of descriptions of extinct and extant species from 2014, parasitology, reproduction, distribution, diet, conservation, and taxonomy. The paper is intended to be consulted for information.

Please note that the content of this paper has been compiled to the best of our abilities based on current knowledge and practice, however, possible errors cannot entirely be excluded.

Citation:

Pollerspöck, J. & Straube, N. (2015), Bibliography database of living/fossil sharks, rays and chimaeras (Chondrichthyes: Elasmobranchii, Holocephali) - Papers of the year 2014 -, www.shark-references.com, World Wide Web electronic publication, Version 01/2015; ISSN: 2195-6499
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1. Extinct Chondrichthyes

1.1 Research Articles

1.1.1 Complete list (arranged in alphabetical order)

- ADNET, S. & GISMONDI, R.S. & ANTOINE, P.-O. (2014):** Comparisons of dental morphology in river stingrays (Chondrichthyes: Potamotrygonidae) with new fossils from the middle Eocene of Peruvian Amazonia rekindle debate on their evolution. *Naturwissenschaften*, 101 (1): 33-45
<http://dx.doi.org/10.1007/s00114-013-1127-1>
- ADOLFSEN, J. & WARD, D.J. (2014):** Crossing the boundary: an elasmobranch fauna from Stevns Klint, Denmark. *Palaeontology*, 57 (3): 591-629 <http://dx.doi.org/10.1111/pala.12079>
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<http://dx.doi.org/10.1016/j.palaeo.2014.04.020>
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- SCHROETER, E.R. & EGERTON, V.M. & IBIRICU, L.M. & LACOVARA, K.J. (2014):** Lamniform Shark Teeth from the Late Cretaceous of Southernmost South America (Santa Cruz Province, Argentina). *PLoS ONE*, 9 (8): e104800 <http://dx.doi.org/10.1371/journal.pone.0104800>
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- SWEETMAN, S.C. & GOEDERT, J. & MARTILL, D.M. (2014):** A preliminary account of the fishes of the Lower Cretaceous Wessex Formation (Wealden Group, Barremian) of the Isle of Wight, southern England. *Biological Journal of the Linnean Society*, 113 (3): 872-896 <http://dx.doi.org/10.1111/bij.12369>
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- TRIKOLIDI, F.A. (2014):** Cow sharks (Hexanchiformes) from the Cretaceous deposits of the Crimea. (In russian) *Proceedings of the Zoological Institute, Russian Academy of Sciences*, 318 (1): 76-97
- TRINAJSTIC, K. & ROELOFS, B. & BURROW, C.J. & LONG, J.A. & TURNER, S. (2014):** Devonian vertebrates from the Canning and Carnarvon Basins with an overview of Paleozoic vertebrates of Western Australia. *Journal of the Royal Society of Western Australia*, 97: 133-151
- VILLAFANA, J.A. & RIVADENEIRA, M.M. (2014):** Rise and fall in diversity of Neogene marine vertebrates on the temperate Pacific coast of South America. *Paleobiology*, 40 (4): 659-674 <http://dx.doi.org/10.1666/13069>
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- WELTON, B.J. (2014):** A new fossil basking shark (Lamniformes: Cetorhinidae) from the Middle Miocene Sharktooth Hill Bonebed, Kern County, California. *Contributions in Science*, 522: 29-44
- WRIGHT, J.K. & BASSETT-BUTT, L. & COLLINSON, M. (2014):** Fatally bitten ammonites from the Lower Calcareous Grit Formation (Upper Jurassic) of NE Yorkshire, UK. *Proceedings of the Yorkshire Geological Society*, 60 (1): 1-8 <http://dx.doi.org/10.1144/pygs2014-336>

1.2 Conference Abstracts

1.2.1 Complete list (arranged in alphabetical order)

- EHRET, D.J. & EBERSOLE, J.A. (2014):** Occurrence of the Megatoothed sharks (Lamniformes: Otodontidae) in Alabama, USA. Abstract. *PeerJ PrePrints*, 2: e517v1
- ENAULT, S. (2014):** Chondrichthyan enameloid: fossil diversity and developmental insights. Abstract. In: *Conference: Geo Seminars, Geological Museum, Copenhagen University, At Copenhagen, Denmark*
- ENAULT, S. & ADNET, S. & DEBIAIS-THIBAUD, M. (2014):** Chondrichthyan enameloid, a palaeontological and developmental approach. Abstract. In: *Conference: Summer school in*

evolutionary developmental biology: conceptual and methodological foundations, 3rd Edition-From gene networks to organismal system, At Venice, Italy

ENAULT, S. & VENTÉO, S. & DEBIAIS-THIBAUD, M. (2014): Tooth enameloid in neoselachians : development, homology, phylogeny. Abstract. *In: Conference: Euro Evo Devo, At Vienna, Austria*

FISCHER, J. (2014): Palaeoecology, migration behavior, and reproductive pattern of Palaeozoic to Mesozoic freshwater sharks revealed by stable and radiogenic isotopes. Abstract. *Geologica Saxonica, 60 (2): 299-300*

FISCHER, J. & SCHNEIDER, J.W. & RÖBLER, R. & SPINDLER, F. & HOFFMANN, U. (2014): An Early Carboniferous Mass Occurrence of Shark Egg Capsules from Freshwater Deposits - The oldest Chondrichthyan Multi-Taxon Nursery. Abstract. *In: Meeting Program & Abstracts, society of Vertebrate Paleontology, Berlin, 05.-08.11.2014: 130*

GAJIĆ, A. (2014): A potential phylogenetic lineage of *Cretolamna appendiculata* Glückman, 1958 based on dental morphology. Abstract. *STES - 7th Scientific Conference Students Encounter Science with international participation, At Banja Luka, Bosnia and Herzegovina*

GOUIRIC-CAVALLI, S. & CABRERA, D.A. & CIONE, A.L. & O'GORMAN, J. & CORIA, R. & FERNÁNDEZ, M. & IGLESIAS, A. & REGUERO, M.A. (2014): The first record of the chimaeroid genus *Edaphodon* (Chondrichthyes, Holocephali) from Antarctica (Snow Hill Formation, Late Cretaceous, James Ross Island). Abstract. *In: Abstracts, SCAR OPEN SCIENCE CONFERENCE & COMNAP Symposium: 433*

HATCHER, J. (2014): Fossil sharks from the Cretaceous of Manitoba. Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 28*

HOFFMAN, B.L. & CLAYCOMB, G.D. & HAGEMAN, S.A. (2014): Occurrence of a ctenacanthoid shark, *Heslerodus divergens*, in the Farley Limestone (Upper Pennsylvanian) of Missouri. Abstract. *In: Kansas Academy of Science, 146th Annual Meeting, 05 April 2014, 15th Annual Paleontology Symposium*

JEREZ-JAIMES, J.H. & CRUZ-GUEVARA, L.E. & PINZÓN-GÓMEZ, R. & PORRAS-MONTERO, J.R. (2014): Primer registro de *Serratolamna serrata* (Agassiz) (Pisces: Neoselachii) del Maastrichtiano (cretácico superior) en Colombia. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condricthios (2014 - Medellín): 70*

RAMSAY, J.B. & WILGA, C.D. & TAPANILA, L. & PRUITT, J. & PRADEL, A. & SCHLADER, R. & DIDIER, D.A. (2014): Mechanics of the Jaws and Tooth-Whorl of *Helicoprion davisii*, the whorl-toothed ratfish. Abstract *Integrative and Comparative Biology, 54 (IS Suppl. 1): E172*

2. Extant Chondrichthyes

2.1 Research Articles

2.1.1 Complete list (arranged in alphabetical order)

ABLE, K.W. & GROTHUES, T.M. & TURNURE, J.T. & MALONE, M.A. & HENKES, G.A. (2014): Dynamics of residency and egress in selected estuarine fishes: evidence from acoustic telemetry. *Environmental Biology of Fishes, 97 (1): 91-102* <http://dx.doi.org/10.1007/s10641-013-0126-6>

ACOREMA (2014): Los Tiburones de la Provincia de Pisco. *ACOREMA, 2014: 33p*

ACUÑA-MARRERO, D. & JIMÉNEZ, J. & SMITH, F. & DOHERTY, P.F. & HEARN, A. & GREEN, J.R. & PAREDES-JARRÍN, J. & SALINAS-DE-LEÓN, P. (2014): Whale Shark (*Rhincodon typus*) Seasonal Presence, Residence Time and Habitat Use at Darwin Island, Galapagos Marine Reserve. *PLoS ONE, 9 (12): e115946* <http://dx.doi.org/10.1371/journal.pone.0115946>

ADNET, S. & GISMONDI, R.S. & ANTOINE, P.-O. (2014): Comparisons of dental morphology in river stingrays (Chondrichthyes: Potamotrygonidae) with new fossils from the middle Eocene of Peruvian Amazonia rekindle debate on their evolution. *Naturwissenschaften, 101 (1): 33-45* <http://dx.doi.org/10.1007/s00114-013-1127-1>

AFONSO, A.S. & ANDRADE, H.A. & HAZIN, F.H.V. (2014): Structure and Dynamics of the Shark Assemblage off Recife, Northeastern Brazil. *PLoS ONE, 9 (7): e102369* <http://dx.doi.org/10.1371/journal.pone.0102369>

- AFONSO, A.S. & HAZIN, F.H.V. (2014):** Post-release survival and behavior and exposure to fisheries in juvenile tiger sharks, *Galeocerdo cuvier*, from the South Atlantic. *Journal of Experimental Marine Biology and Ecology*, 454: 55-62 <http://dx.doi.org/10.1016/j.jembe.2014.02.008>
- AFONSO, P. & MCGINTY, N. & MACHETE, M. (2014):** Dynamics of Whale Shark Occurrence at Their Fringe Oceanic Habitat. *PLoS ONE*, 9 (7): e102060
<http://dx.doi.org/10.1371/journal.pone.0102060>
- AGUILAR, C. & GONZALEZ-SANSON, G. & HUETER, R. & ROJAS, E. & CABRERA, Y. & BRIONES, A. & BORROTO, R. & HERNANDEZ, A. & BAKER, P. (2014):** Captura de tiburones en la región noroccidental de Cuba. [Shark catches in the northwest region of Cuba.] *Latin American Journal of Aquatic Research*, 42 (3): 477-487
- AINSLEY, S.M. & EBERT, D.A. & NATANSON, L.J. & CAILLIET, G.M. (2014):** A comparison of age and growth of the Bering skate, *Bathyraja interrupta* (Gill and Townsend, 1897), from two Alaskan large marine ecosystems. *Fisheries Research*, 154: 17-25
<http://dx.doi.org/10.1016/j.fishres.2014.02.002>
- AJEMIAN, M.J. & NEER, J.A. (2014):** Preface: Biology and ecology of the durophagous stingrays. *Environmental Biology of Fishes*, 97 (9): 965-966 <http://dx.doi.org/10.1007/s10641-014-0295-y>
- AJEMIAN, M.J. & POWERS, S.P. (2014):** Towed-float satellite telemetry tracks large-scale movement and habitat connectivity of myliobatid stingrays. *Environmental Biology of Fishes*, 97 (9): 1067-1081
<http://dx.doi.org/10.1007/s10641-014-0296-x>
- AKHILESH K.V. & BINEESH, K.K. & GOPALAKRISHNAN, A. & JENA, J.K. & BASHEER, V.S. & PILLAI, N.G.K. (2014):** Checklist of Chondrichthyans in Indian waters. *Journal of the Marine Biological Association of India*, 56 (1): 109-120 <http://dx.doi.org/10.6024/jmbai.2014.56.1.01750s-17>
- AKHILESH, K.V. & BINEESH, K.K. & MISHRA, S.S. & GANGA, U. & PILLAI, N.G.K. (2014):** Notes on the Indian swellshark, *Cephaloscyllium silasi* (Scyliorhinidae: Carcharhiniformes) from deep waters off the west coast of India. *Marine Biodiversity Records*, 7: e25
<http://dx.doi.org/10.1017/S1755267214000141>
- AKHILESH, K.V. & BINEESH, K.K. & WHITE, W.T. & SHANIS, C.P.R. & HASHIM, M. & GANGA, U. & PILLAI, N.G.K. (2014):** Catch composition, reproductive biology and diet of the bramble shark *Echinorhinus brucus* (Squaliformes: Echinorhinidae) from the south-eastern Arabian Sea. *Journal of Fish Biology*, 83 (5): 1112-1127 <http://dx.doi.org/10.1111/jfb.12201>
- AKYOL, O. & CAPAPÉ, C. (2014):** Distribution of blackchin guitarfish *Rhinobatos cemiculus* E. Geoffroy Saint-Hilaire, 1817 (Elasmobranchii: Rhinobatidae) with first records from Izmir Bay (Turkey, northeastern Aegean Sea). *Turkish Journal of Zoology*, 38 (4): 460-465 <http://dx.doi.org/10.3906/zoo-1307-32>
- ALAM, M.T. & PETIT, R.A. & READ, T.D. & DOVE, A.D.M. (2014):** The complete mitochondrial genome sequence of the world's largest fish, the whale shark (*Rhincodon typus*), and its comparison with those of related shark species. *Gene*, 539 (1): 44-49
<http://dx.doi.org/10.1016/j.gene.2014.01.064>
- AL-SHAJIBI, S.R. & CHESALIN, M.V. & AL-SHAGAA, G.A. (2014):** New Records of Sharks from Southern Coastal Waters of Oman in the Arabian Sea. *Pakistan Journal of Zoology*, 46 (1): 281-284
- ANASTASSOV, I. & RIPPS, H. & CHAPPELL, R.L. (2014):** Cytoprotection by endogenous zinc in the vertebrate retina. *Journal of Neurochemistry*, 129 (2): 249-255 <http://dx.doi.org/10.1111/jnc.12627>
- ANDERSON, D.J. & KOBRYN, H.T. & NORMAN, B.M. & BEJDER, L. & TYNE, J.A. & LONERAGAN, N.R. (2014):** Spatial and temporal patterns of nature-based tourism interactions with whale sharks (*Rhincodon typus*) at Ningaloo Reef, Western Australia. *Estuarine Coastal and Shelf Science*, 148: 109-119 <http://dx.doi.org/10.1016/j.ecss.2014.05.023>
- ANDERSON, W.G. & MCCABE, C. & BRANDT, C. & WOOD, C.M. (2014):** Examining urea flux across the intestine of the spiny dogfish, *Squalus acanthias*. *Comparative Biochemistry and Physiology - Part A, Molecular & Integrative Physiology*, 181C: 71-78
<http://dx.doi.org/10.1016/j.cbpa.2014.11.023>
- ANDREOTTI, S. & RUTZEN, M. & WESCHE, P.L. & O'CONNELL, C.P. & MEYER, M. & OOSTHUIZEN, H. & MATTHEE, C.A. (2014):** A Novel Categorization System to Organize a Large Photo Identification Database for White Sharks, *Carcharodon carcharias*. *African Journal of Marine Science*, 36 (1): 59-67 <http://dx.doi.org/10.2989/1814232X.2014.892027>
- ÁNGEL, F. & QUINTEIRO, J. & REY-MÉNDEZ, M. (2014):** First record for the Caribbean Sea of the shark *Echinorhinus brucus* captured in Venezuelan waters. *Marine Biodiversity Records*, 7: e91
<http://dx.doi.org/10.1017/S1755267214000967>
- ANGULO, A. & LÓPEZ, M.I. & BUSSING, W.A. & MURASE, A. (2014):** Records of chimaeroid fishes (Holocephali: Chimaeriformes) from the Pacific coast of Costa Rica, with the description of a new

- species of Chimera (Chimaeridae) from the eastern Pacific Ocean. *Zootaxa*, 3861 (6): 554-574
<http://dx.doi.org/10.11646/zootaxa.3861.6.3>
- ARAGÓN NORIEGA, E.A. (2014):** Pesquería artesanal de elasmobranquios en dos áreas marinas protegidas del Alto Golfo de California. In: *Libro de resúmenes, VI Simposium Nacional de Tiburones y Rayas, 07 al 12 de abril de 2014, Mazatlán, Sin: 2-4*
- ARAUJO, G. & LUCEY, A. & LABAJA, J. & SO, C.L. & SNOW, S. & PONZO, A. (2014):** Population structure and residency patterns of whale sharks, *Rhincodon typus*, at a provisioning site in Cebu, Philippines. *PeerJ*, 2 :e543 <http://dx.doi.org/10.7717/peerj.543>
- ARI, C. (2014):** Manta rays change colour. *Nature*, 512: 9 <http://dx.doi.org/10.1038/512009a>
- ARI, C. (2014):** Rapid coloration changes of manta rays (Mobulidae). *Biological Journal of the Linnean Society*, 113 (1): 180-193 <http://dx.doi.org/10.1111/bj.12321>
- ASCHLIMAN, N.C. (2014):** Interrelationships of the durophagous stingrays (Batoidea: Myliobatidae). *Environmental Biology of Fishes*, 97 (9): 967-979 <http://dx.doi.org/10.1007/s10641-014-0261-8>
- AUSTRALIAN FISHERIES MANAGEMENT AUTHORITY (2014):** Shark and Ray Handling Practices. A guide for commercial fishers in southern Australia. *Australian Fisheries Management Authority (AFMA)*
- AUSTRALIEN GOVERNMENT (2014):** Draft recovery plan for Sawfish and River Sharks: (*Pristis pristis*, *Pristis zijsron*, *Pristis clavata*, *Glyphis glyphis* and *Glyphis garricki*) *Commonwealth of Australia 2014*
- AVENDAÑO-ALVAREZ, O. & PEREZ-ESPAÑA, H. & SALAS-MONREAL, D. (2014):** Stomach content of three *Sphyrna lewini* shark captured in a reef system at the western Gulf of Mexico. In: *Libro de resúmenes, VI Simposium Nacional de Tiburones y Rayas, 07 al 12 de abril de 2014, Mazatlán, Sin: 36-39*
- BADE, L.M. & BALAKRISHNAN, C.N. & PILGRIM, E.M. & MCRAE, S.B. & LUCZKOVICH, J.J. (2014):** A genetic technique to identify the diet of cownose rays, *Rhinoptera bonasus*: analysis of shellfish prey items from North Carolina and Virginia. *Environmental Biology of Fishes*, 97 (9): 999-1012 <http://dx.doi.org/10.1007/s10641-014-0290-3>
- BANDYOPADHYAY, P.R. & HELLMUM, A.M. (2014):** Modeling how shark and dolphin skin patterns control transitional wall-turbulence vorticity patterns using spatiotemporal phase reset mechanisms. *Scientific Reports*, 4: 6650 <http://dx.doi.org/10.1038/srep06650>
- BANGLEY, C. & RULIFSON, R. (2014):** Observations on spiny dogfish (*Squalus acanthias*) captured in late spring in a North Carolina estuary. *F1000Research*, 3: 189
<http://dx.doi.org/10.12688/f1000research.4890.2>
- BANGLEY, C.W. & RULIFSON, R.A. (2014):** Feeding Habits, Daily Ration, and Potential Predatory Impact of Mature Female Spiny Dogfish in North Carolina Coastal Waters. *North American Journal of Fisheries Management*, 34 (3): 668-677 <http://dx.doi.org/10.1080/02755947.2014.902410>
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- WINTON, M.V. & NATANSON, L.J. & KNEEBONE, J. & CAILLIET, G.M. & EBERT, D.A. (2014):** Life history of *Bathyraja trachura* from the eastern Bering Sea, with evidence of latitudinal variation in a deep-sea skate species. *Journal of the Marine Biological Association of the United Kingdom*, 94 (2): 411-422
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- WYFFELS, J. & KING, B.L. & VINCENT, J. & CHEN, C. & WU, C.H. & POLSON, S.W. (2014):** SkateBase, an elasmobranch genome project and collection of molecular resources for chondrichthyan fishes. *F1000Research*, 3: 191
<http://dx.doi.org/10.12688/f1000research.4996.1>
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<http://dx.doi.org/10.1016/j.jbiotec.2014.04.023>
- ZIERMANN, J.M. & MIYASHITA, T. & DIOGO, R. (2014):** Cephalic muscles of Cyclostomes (hagfishes and lampreys) and Chondrichthyes (sharks, rays and holocephalans): comparative anatomy and early evolution of the vertebrate head muscles. *Zoological Journal of the Linnean Society*, 172 (4): 771-802
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- ZIGAITE, Z. & WHITEHOUSE, M. (2014):** Stable oxygen isotopes of dental biomineral: differentiation at the intra- and inter-tissue level of modern shark teeth. *GFF*, 136 (1): 337-340
<http://dx.doi.org/10.1080/11035897.2013.878747>
- ZIMMER, A.M. & WOOD, C.M. (2014):** Exposure to Acute Severe Hypoxia Leads to Increased Urea Loss and Disruptions in Acid-Base and Ionoregulatory Balance in Dogfish Sharks (*Squalus acanthias*). *Physiological and Biochemical Zoology*, 87 (5): 623-639
<http://dx.doi.org/10.1086/677884>
- ZOGARIS, S. & DE MADDALENA, A. (2014):** Sharks, blast fishing and shifting baselines: insights from Hass's 1942 Aegean expedition. *Cahiers de Biologie Marine*, 55: 305-313

2.2 Conference Abstracts

2.2.1 Complete list (arranged in alphabetical order)

- ABBATEPAULO, F.V. & VAZ-DOS-SANTOS, A.M. & KOTAS, J.E. (2014):** Distribuição batimétrica e reprodução da raia-santa, Rioraja agassizi, no sul do Brasil. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 48*
- ACOSTA-SANTOS, A. & AGUDELO-CÓRDOBA, E. & LASSO, C.A. & DUQUE, S.R. (2014):** Biodiversidad de rayas de agua dulce (Myliobatiformes: Potamotrygonidae) en el río Amazonas colombiano. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 57*
- AFONSO, A.S. & HAZIN, F.H.V. (2014):** Vertical movement patterns and ontogenetic niche expansion in the tiger shark, *Galeocerdo cuvier*, from the western South Atlantic Ocean. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 12*
- ALLERTZ, L. (2014):** Feasibility of the reintroduction of the thornback ray (*Raja clavata*) to the Wadden Sea. Poster Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 69*
- ALMANZA, M. & MÁRQUEZ, E. & CHASQUI, L. (2014):** Análisis filogenético del género *Rhizoprionodon* en el Caribe colombiano. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 13*
- AMARGOS, F.P. & MARTIN, T.F. & LOPEZ, N. & ANGULO, J. & GRAHAM, R.T. (2014):** Fisheries-independent assessment of sharks in Cuba's Jardines de la Reina archipelago and the contiguous Golfo de Ana Maria. Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 24*
- AMARILES, D.F. & NAVIA, A.F. & LÓPEZ-GARCÍA, J. & GIRALDO, A. (2014):** Ecología trófica de *Mustelus lunulatus* y *Mustelus henlei* en el Pacífico colombiano. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 14*
- ANDERSON, J.M. & REX, P.T. & QUIEROZ, L.V.M. & HOLLAND, K.N. (2014):** Perception and discrimination of magnetic fields in Sandbar, *Carcharhinus plumbeus*, and Scalloped Hammerhead, *Sphyrna lewini*, sharks. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 13*
- ANDREOTTI, S. & RUTZEN, M. & VON DER HEYDEN, S. & MEYER, M. & OOSTHUIZEN, H. & MATTHEE, C.A. (2014):** How many are there? - An integrated approach for estimating the size of the white shark population in South Africa. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 14*
- ANDREWS, A.H. & KERR, L.A. & PASSEROTTI, M.S. & NATANSON, L.J. & WINTNER, S.P. (2014):** Maximum age and missing time in shark vertebrae: the limits and validity of age estimates using bomb radiocarbon dating. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 15*
- ANGUILA, R. & ALVARADO, L.N. & NARVÁEZ-BARANDICA, J.C. & ACERO, A. & HERNÁNDEZ-BERACASA, L. (2014):** Tres nuevos registros de peces de esqueleto cartilaginoso para el Caribe colombiano y uno como ampliación de su distribución en el Caribe colombiano para Bocas de Cenizas, departamento del Atlántico, Colombia. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 58*
- APPS, K. & LLOYD, D. & DIMMOCK, K. (2014):** Human dimensions of shark-based tourism. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 16*
- ARANGO-SÁNCHEZ, L.B. & BARRETO-REYES, C.G. (2014):** Aportes al conocimiento sobre condriactios del Golfo de Urabá. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 59*
- ARAUJO, G. & LUCEY, A. & SO, C.L. & LABAJA, J. & SNOW, S.J. & PONZO, A. (2014):** Describing the population structure and residency of whale sharks visiting the waters of Oslob, Cebu, Philippines, during the provisioning hours, between March 31st 2012 and December 31st 2013. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 17*
- ARAÚJO, M.L.G. & LESSA, R.P.T. & SANTANA, F.M. & MELO, S.M.V. (2014):** Idade e crescimento de *Paratrygon aiereba* (Müller & Henle, 1841) (Myliobatiformes: Potamotrygonidae) no médio Rio Purus, Acre, Brasil. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 88*

- ARAÚJO, M.L.G. & MELO, S.M.V. (2014):** Biología reproductiva de *Potamotrygon orbignyi* (Castelnau, 1855) (Myliobatiformes:Potamotrygonidae) no médio Rio Negro, Amazonas, Brasil. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 89*
- ARAÚJO, P.R.V. & NUNES, R.I. & ODDONE, M.C. & VELASCO, G. (2014):** Pesca artesanal e captura de *Myliobatis* spp. (Chondrichthyes: Rajiformes) na praia do Cassino, RS. Abstract. *In: VIII Encontro da Sociedade Brasileira para o Estudo de Elasmobrânquios - SBEEL, 2014, Recife. OS DESAFIOS DA PESQUISA E ESTUDOS DE TUBARÕES E RAIAS NO BRASIL, 2014 : 95*
- ARAÚJO, P.R.V. & NUNES, R.I. & VELASCO, G. & ODDONE, M.C. (2014):** Biología da reprodução de *Myliobatis goodei* (Garman, 1885) e *Myliobatis ridens* (Ruocco, Lucifora, De Astarloa, Mabragaña & Delpiani, 2012) (Chondrichthyes: Rajiformes) na praia do Cassino, RS. Abstract *In: VIII Encontro da Sociedade Brasileira para o Estudo de Elasmobrânquios - SBEEL, 2014, Recife. OS DESAFIOS DA PESQUISA E ESTUDOS DE TUBARÕES E RAIAS NO BRASIL, 2014 : 53*
- ARAUZ, R. (2014):** Recomendaciones para el manejo del tiburón sedoso (*Carcharhinus falciformis*) en la pesquería del dorado en el Pacífico Tropical Oriental. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 15*
- AUTRET, L. & BRIGAUDEAU, C. & JUNG, A. (2014):** Pour old wine in new bottles: How ancient's museum data can help in understanding actual distribution of endangered sawfishes. Poster Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 70*
- BACH, S. & ROBINSON, D.P. & BENNETZEN, M.V. & ABDULRAHMAN, A.A. & AL-JAIDAH, M. (2014):** Testing the affinity of whale sharks, *Rhincodon typus*, to offshore oil platforms in newly discovered aggregation site of the coast of Qatar in the Arabian Gulf. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 18*
- BALABAN, J.P. & WILGA, C.D. (2014):** Morphology of the Feeding Apparatus in Four Shark Species. Abstract *Integrative and Comparative Biology, 54 (IS Suppl. 1): E11*
- BARASH, A. & PICKHOLTZ, E. & PICKHOLTZ, R. & RILOV, G. & BLAUSTEIN, L. (2014):** Shark aggregations at power plants: describing an emerging phenomenon based on fishermen's observations. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 40*
- BARKER, J. & PIPER, R. & MEYERS, E. & FERNÁNDEZ-PALACIOS, Y. & HAROUN, R. (2014):** Protecting the last angel shark stronghold in the Canary Islands. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 47*
- BARRERA-GARCÍA, A.B. & GALVÁN-MAGAÑA, F. & MÉDEZ-RODRÍGUEZ, L.C. & CASTELLINI, M. & ZENTENO-SAVÍN, T. & O'HARA, T. (2014):** Elementos traza e indicadores de estrés oxidativo en el tiburón azul (*Prionace glauca*) de la costa occidental de Baja California Sur, México. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 16*
- BARRETO, R. & FERRETTI, F. & FLEMMING, J. & ANDRADE, H. & AMORIM, A.F. & SANTANA, F. & WORM, B. & LESSA, R. (2014):** Inferring sharks population's trends in the South Atlantic Ocean (SAO). Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 7*
- BEDORE, C.N. & KAJIURA, S.M. & JOHNSEN, S.J. (2014):** Bioelectric crypsis in cephalopods reduces detection by shark predators. Abstract *Integrative and Comparative Biology, 54 (IS Suppl. 1): E15*
- BELLODI, A. & ALVITO, A. & FOIS, M. & SOLDOVILLA, G. & VITTORI, S. & MULAS, A. (2014):** A multiple models investigation on age and growth of the speckled ray (*Raja polystigma*) from Sardinian seas. Poster Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 71*
- BENEKER, L.H. (2014):** Economic importance of the starry smoothhound to anglers in the Netherlands. Poster Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 72*
- BERVOETS, T.Y. (2014):** The Implementation of a Shark Sanctuary and Continued Conservation Management Activities on a Small Island Caribbean State in the Dutch Caribbean of presentation. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 33*
- BESADA, V. & SCHULTZE, F. & LÓPEZ, M. & RODRÍGUEZ-CABELLO, C. (2014):** Suitability of lesser spotted dogfish (*Scyliorhinus canicula*) as indicator of trace metals pollution in the Spanish Marine Strategy monitoring programs. Poster Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 73*

- BESSUDO, S. & MONSALVE-ROCHA, S. & SOLER, G. (2014):** Movimientos de *Sphyrna lewini* en el Santuario de Fauna y Flora Malpelo utilizando telemetría acústica. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriictios (2014 - Medellín): 60*
- BESTER-VAN DER MERWE, A.E. & BITALO, D. & MADUNA, S. & GLEDHILL, K. (2014):** Application of molecular techniques in conservation management of elasmobranchs, identifying the way forward. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 41*
- BESTER-VAN DER MERWE, A.E. & GLEDHILL, K.S. (2014):** How genetics can be incorporated into fisheries management, sustainable utilisation and conservation efforts of Southern African shark species- an overview and future endeavours. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 20*
- BINI, I.R.J. & DOS SANTOS, C.M.H. & GADIG, O.B.F. (2014):** Descrição anatômica do escapulocoracóide e arcos branquiais de *Benthobatis krefftii* (Chondrichthyes, Narcinidae). Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriictios (2014 - Medellín): 90*
- BITALO, D.N. & CUEVAS, J.M. & OVENDEN, J. & ROODT-WILDING, R. & BESTER-VAN DER MERWE, A.E. (2014):** Genetic connectivity of tope shark, *Galeorhinus galeus*, across the South Atlantic and Indian Ocean inferred by microsatellite markers. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 21*
- BLAISON, A. & JAQUEMET, S. & GUYOMARD, D. & VAN GREVELYNGHE, G. & GAZZO, T. & PERRY, C. & CLIFF, G. & LANDRON, F. & SORIA, M. (2014):** New insight in seasonal patterns and reproductive biology of tiger and bull sharks in Reunion Island, Western Indian Ocean. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 22*
- BOND, M.E. & BABCOCK, E.A. & CHAPMAN, D.D. (2014):** Southern stingrays, *Dasyatis americana*, concentrate on shallow flats inside marine reserves: response to top-down or bottom-up processes? Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 23*
- BOWDEN, D.L. & BENNETT, M.B. (2014):** A review of the Odontaspidae. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 24*
- BRACCINI, M. & MCAULEY, R. (2014):** Going spatial: movement information and population dynamics of commercially- fished Western Australian sharks. Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 8*
- BREVÉ, N.W.P. (2014):** Why not involve anglers in your elasmobranch studies? Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 48*
- BULLOCK, R.W. & GUTTRIDGE, T.L. & BOND, M.E. & GRIMMEL, H.M.V. & GRUBER, S.H. (2014):** Assessing the Effects of Prey Interactions on Habitat Use Patterns and Foraging Effort in Lemon Sharks. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 55*
- BURGESS, K.B. & COUTURIER, L.I.E. & MARSHALL, A.D. & RICHARDSON, A.J. & WEEKS, S.J. & BENNETT, M.B. (2014):** Manta spp. as secondary consumers of a $\delta^{13}\text{C}$ enriched food source. Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 9*
- BURGOS-VÁZQUEZ, M.I. & GALVÁN-MAGAÑA, F. & OCHOA-BÁEZ, R.I. (2014):** Caracterización de los órganos reproductores de la raya mariposa *Gymnura marmorata* capturada en la costa occidental de Baja California sur, México. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriictios (2014 - Medellín): 17*
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- VIANNA, G.M.S. & MEEKAN, M.G. & RUPPERT, J.L.W. & MEEUWIG, J.J. (2014):** Safe haven? A first assessment of reef shark populations in the Palauan shark sanctuary. Abstract. In: *Programm and Abstracts of Shark International, Durban 2014: 178*
- VILLATE, M. & CRAWFORD, A. & CUBILLOS, J.C. (2014):** Testing phylogeographic hypotheses and connectivity among populations of globally distributed whale sharks *Rhincodon typus*. Poster Abstract. In: *Programm and Poster Abstracts of Shark International, Durban 2014: 56*

- WALKER, P.A. (2014):** New Horizons for elasmobranch fisheries management. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 45*
- WALOVICH, K.A. & EBERT, D.A. (2014):** Spot a basking shark: how California's citizen scientists are aiding in the recovery of an enigmatic shark. Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 57*
- WALOVICH, K.A. & EBERT, D.A. & LONG, D.J. & DIDIER, D.A. (2014):** Redescription of *Hydrolagus africanus* (Gilchrist, 1922) (Chimaeriformes: Chimaeridae) with a review of Southern African chimaeroids. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 180*
- WALTRICK, D. & JONES, S.M. & SIMPFENDORFER, C.A. & AWRUCH, C.A. (2014):** Control of programed arrested development in embryos of the Australian sharpnose shark, *Rhizoprionodon taylori*. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 179*
- WANDERLEY, C.A. & MORO, G. & VIANA, K.M.P. & ROSA, R.S. (2014):** Taxonomic redescription of *Potamotrygon signata* (Chondrichthyes: Potamotrygonidae). Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 53*
- WARIES, S. & KOCK, A.A. & GOLD, H. & SIKWEIYA, M. & SIMMERIE, V. & DAVISON, A. & OELOFSE, G. (2014):** Preliminary results of the implementation of a non-lethal shark exclusion barrier in Fish Hoek, South Africa. Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 58*
- WEIGMANN, S. & STEHMANN, M.F.W. & THIEL, R. (2014):** New findings from Area 51 – Chondrichthyans of the deep western Indian Ocean. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 43*
- WHITEHEAD, D.L. & GAUTHIER, A. & MU, E. & BENNETT, M. & TIBBETTS, I.R. (2014):** Comparative morphology of the ampullary of Lorenzini in juvenile freshwater and adult marine *Carcharhinus leucas*. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 181*
- WHITTY, J.M. & MORGAN, D.L. & GLEISS, A. & THORBURN, D.C. & KELEHER, J. (2014):** A review of the Fitzroy River, Western Australia sawfish project and the implications of its findings in regards to anthropogenic disturbances. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 182*
- WIERSMA, F. (2014):** Making sharks and shark research visible – The first two years of the Dutch Shark Society. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 60*
- WILGA, C. & DUQUETTE, D. & FICARRA, L. (2014):** Coordination of Ventilation and Feeding in Elasmobranchs. Abstract *Integrative and Comparative Biology, 54 (IS Suppl. 1): E224*
- WIMMER, T. & CORKE, J. & SMITH, K. & BRILLANT, S. (2014):** The use of zinc and graphite to reduce shark bycatch in Canadian pelagic longline fisheries. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 184*
- WINTER, E. & BREVÉ, N.W.P. (2014):** Starry smooth-hounds tagged in the Netherlands on the move. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 49*
- WRAY-BARNES, A.M. & POWTER, D. & PEDDEMORS, V.M. & MOLTSCHANIWSKYJ, N. (2014):** Environmental and spatial variables influencing the catch of smooth hammerhead sharks, *Sphyrna zygaena*, within the shark meshing program off the coast of New South Wales, Australia. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 183*
- WUERINGER, B.E. & COIMBRA, J.P. & SQUIRE, L. & COLLIN, S.P. (2014):** The visual ecology of sawfish. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 185*
- WUERINGER, B.E. & RAOULT, V. & GUTTRIDGE, T.L. (2014):** Sensory specialisations of sawsharks (fam. Pristiophoridae). Poster Abstract. *In: Programm and Poster Abstracts of Shark International, Durban 2014: 59*
- YATES, P.M. & HEUPEL, M.R. & TOBIN, A.J. & SIMPFENDORFER, C.A. (2014):** Diversity in shark nursery area function in the Great Barrier Reef. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 186*
- YOPAK, K.E. & GOH, G. & HEEL, K. & NORTHCUTT, R.G. & COLLIN, S.P. (2014):** Is bigger always better? The evolution of brain size and cognitive ability in sharks. Abstract. *In: Programm and Abstracts of Shark International, Durban 2014: 187*
- ZAMBRANO, R.E. & LOAIZA, N.J. & SEGURA, C.C.E. (2014):** Registro sobre la pesca de tiburones en la costa pacífica colombiana para periodo julio 2013 a julio de 2014. Abstract *In: Libro de resúmenes IV Encuentro colombiano sobre condriactios (2014 - Medellín): 86*

ZANELLA, I. & LOPEZ, A. (2014): Habitat use and local movements of bull shark (*Carcharhinus leucas*) at Guanacaste Conservation Area, Costa Rica. Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 50*

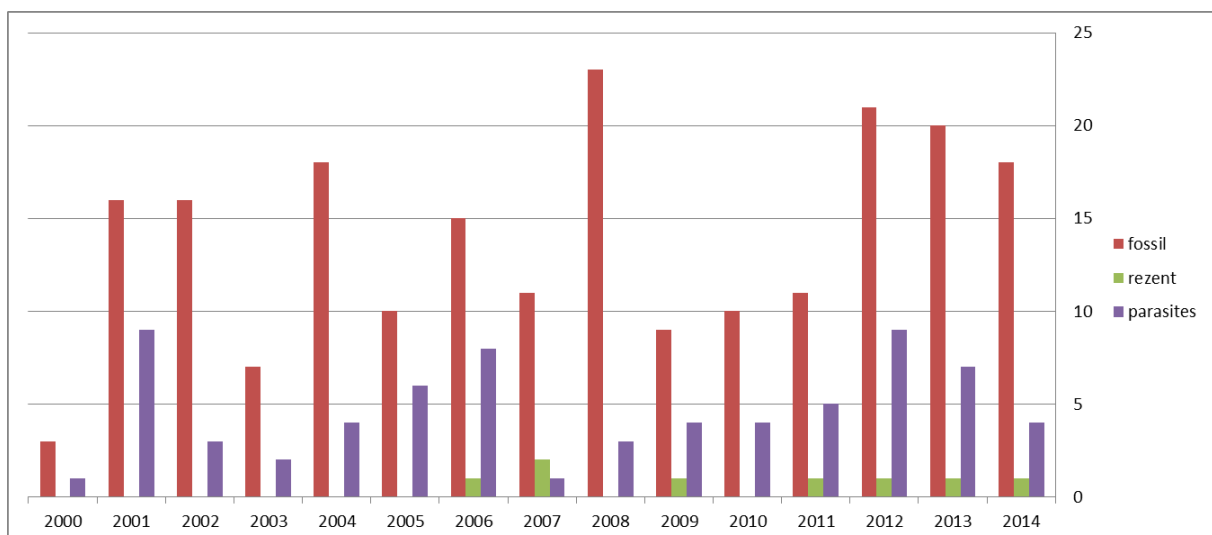
ZIDOWITZ, H. & THIEL, R. (2014): Elasmobranch Diversity in German Waters. Poster Abstract. *In: Proceedings of the European Elasmobranch Association annual scientific conference, Leeuwarden: 87*

3. Database Reports

3.1 Statistics

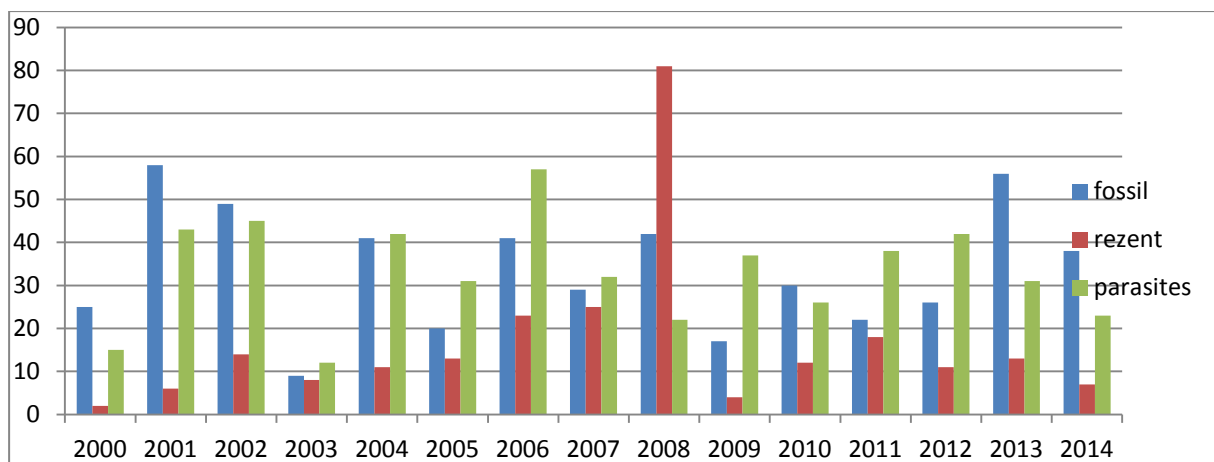
3.1.1 Newly described genera 2000 - 2014

Year	fossil	rezent	parasites
2000	3		1
2001	16		9
2002	16		3
2003	7		2
2004	18		4
2005	10		6
2006	15	1	8
2007	11	2	1
2008	23		3
2009	9	1	4
2010	10		4
2011	11	1	5
2012	21	1	9
2013	20	1	7
2014	18	1	4



3.1.1 Newly described species 2000 - 2014

Year	fossil	rezent	parasites
2000	25	2	15
2001	58	6	43
2002	49	14	45
2003	9	8	12
2004	41	11	42
2005	20	13	31
2006	41	23	57
2007	29	25	32
2008	42	81	22
2009	17	4	37
2010	30	12	26
2011	22	18	38
2012	26	11	42
2013	56	13	31
2014	38	7	23



3.2 Descriptions of extinct species

ADNET, S. & GISMONDI, R.S. & ANTOINE, P.-O. (2014): Comparisons of dental morphology in river stingrays (Chondrichthyes: Potamotrygonidae) with new fossils from the middle Eocene of Peruvian Amazonia rekindle debate on their evolution. *Naturwissenschaften*, 101 (1): 33-45

New species: *Potamotrygon ucayalensis*

Abstract: Endemic South American river stingrays (Potamotrygonidae), which include the most diversified living freshwater chondrichthyans, were conspicuously absent from pre-Neogene deposits in South America despite the fact that recent phylogenetic analyses strongly suggest an older origination for this clade. To date, the rare representatives of this family were mostly represented by ambiguous isolated remains. Here, we report 67 isolated fossil teeth of a new obligate freshwater dasyatoid (*Potamotrygon ucayalensis* nov. sp) from the fossiliferous level CTA-27 (Yahuarango Formation), near Contamana, in the Peruvian Amazonia. We assigned this sample to a new representative of Potamotrygon by comparison with numerous fresh jaws of living specimens of Potamotrygonidae, thus providing the first detailed review of dental morphology for this poorly understood clade. These new fossils fill a long stratigraphic gap by extending the family range down to the middle Eocene (~41 Mya). Moreover, the relative modernity and diversity in tooth morphology among Eocene freshwater stingrays (including *Potamotrygon ucayalensis* nov. sp. and coeval North American dasyatoids) indicate that the hypothetically marine ancestor of potamotrygonids probably invaded the rivers earlier than in the middle Eocene. The first potamotrygonids and affiliates were possibly more generalized and less endemic than now, which is consistent with an opportunistic filling of vacated ecospace.

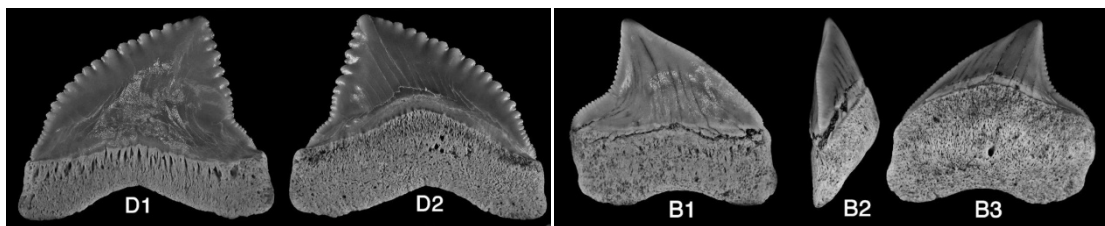
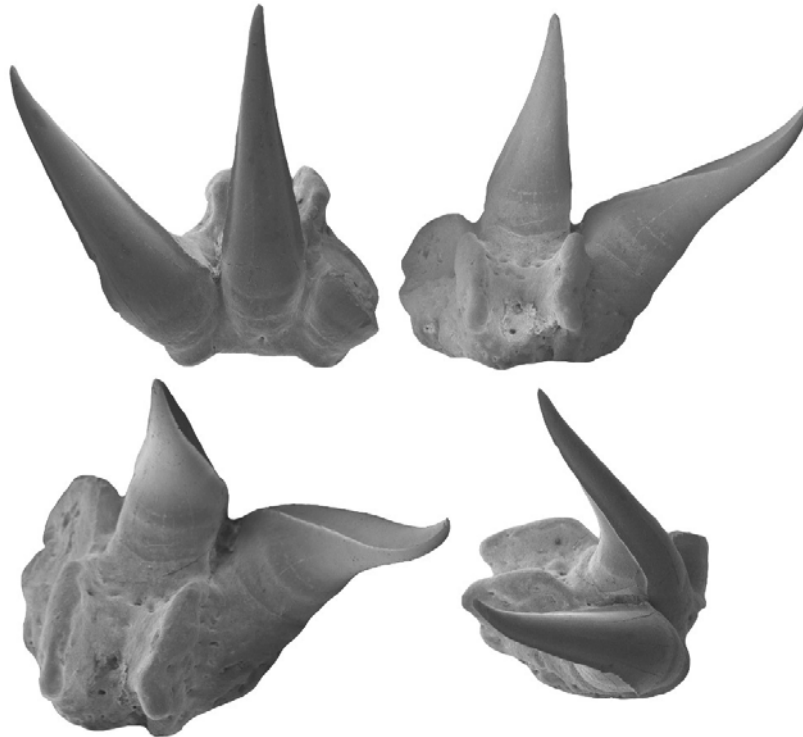


image by C. Cappetta: *Squalicorax benguerirensis*, *Squalicorax microserratus*

CAPPETTA, H. & ADNET, S. & AKKRIM, D. & AMALIK, M. (2014): New *Squalicorax* species (Neoselachii: Lamniformes) from the Lower Maastrichtian of Ganntour phosphate deposit, Morocco. *Palaeovertebrata*, 38: e3

New species: *Squalicorax benguerirensis*, *Squalicorax microserratus*

Abstract: Two new *Squalicorax* species, *S. benguerirensis* nov. sp. and *S. microserratus* nov. sp. are described from the Lower Maastrichtian of the Benguérir phosphate open mine, Ganntour deposit, Morocco. The species *S. benguerirensis* nov. sp. was classically assigned to *S. yangaensis* since Arambourg (1952) and has been also recognized in coeval deposits from eastern USA to Mid-East. The species *S. microserratus* nov. sp. correspond to the lateral teeth of *S. kaupi* as reported by Arambourg (1952) and which is now referred in fact to *S. bassanii*. The comparison of these two new species with other Anacoracids, known in Moroccan or elsewhere, allows highlighting the great taxonomic and ecological diversities of this family during the Cretaceous.



Chlamydoselachus landinii CARRILLO-BRICEÑO, AGUILERA & RODRIGUEZ, 2014, Santiago River, Playa de Oro, Angostura Formation, PPP-3455-T-1; © CARRILLO-BRICEÑO

CARRILLO-BRICEÑO, J.D. & AGUILERA, O.A. & RODRIGUEZ, F. (2014): Fossil Chondrichthyes from the central eastern Pacific Ocean and their paleoceanographic significance. *Journal of South American Earth Sciences*, 51: 76–90

New species: *Chlamydoselachus landinii*

Abstract: The study of the chondrichthyan fauna from the Angostura, Onzole, Canoa and Jama formations, in the Neogene of Bordón and Manabí basins, Ecuador, reveals the presence of 30 taxa, including the deep water shark †*Chlamydoselachus landinii* sp. nov. The assemblages are dominated by tropical shallow and deep water chondrichthyans, suggesting paleoenvironments associated with a short platform shelf bordering a deep margin. These assemblages are the most diverse shark and ray association known from the Tropical Central Eastern Pacific Ocean in the South American coastal basin, and provide new information on the paleoecology and paleodiversity of Neogene chondrichthyans.

COOK, T.D. & EATON, J.G. & NEWBREY, M.G. & WILSON, M.V.H. (2014): A new genus and species of freshwater stingray (Myliobatiformes, Dasyatoidea) from the latest middle Eocene of Utah, U.S.A. *Journal of Paleontology*, 88 (3): 497-503

New genus: *Saltirius*

New species: *Saltirius utahensis*

Abstract: Teeth of a new freshwater dasyatoid ray recovered from the latest middle Eocene Brian Head Formation of southern Utah represent the youngest freshwater stingray so far known in the fossil record of North America. The crown morphology of *Saltirius utahensis* n. gen. n. sp. exhibits strong sexual dimorphism, with the presumed males bearing two prominent margino-labial protuberances and a bifid cusp that produces a saltire-like outline. This unique crown separates this genus and species from any known extinct or extant myliobatiform, but does have some resemblance to the crown of *Asterotrygon maloneyi* from the lower Eocene Green River Formation of Wyoming. The occurrence of *S. utahensis* in the Brian Head Formation provides additional evidence for the persistence of warm subtropical temperatures during the late Eocene in southern Utah.

COOK, T.D. & NEWBREY, M.G. & BRINKMAN, D.B. & KIRKLAND, J.I. (2014): Euselachians from the freshwater deposits of the Hell Creek Formation of Montana. *Geological Society of America, Special Paper, 503*: 229-246, fig. 1-6, A1-A2, tabl. 1.

New genus: *Restesia*

New species: *Myledaphus pustulosus*

Abstract: An examination of freshwater euselachian fossils from the Maastrichtian lower and upper Hell Creek Formation, and the Bug Creek Anthills (Cretaceous-Paleogene boundary), and the early Paleocene (Puercan) Tullock Member of the Fort Union Formation of Montana, USA, revealed seven taxa: *Lonchidion selachos*, *Protoginglymostoma estesi*, *Chiloscyllium*, *Restesia americana*, *Ischyrrhiza avonicola*, *Myledaphus pustulosus* n. sp., and *Dasyatis* (Dasyatidae). *Squatirhina americana* is redescribed to the new genus *Restesia* based on unique crown morphology. *Dasyatis* is only reported from the Paleocene. This is in contrast to the other collected taxa, which are only known from the Cretaceous. *Ischyrrhiza* is not reported in our samples from the Hell Creek Formation despite earlier erroneous claims; however, the taxon is present in a sample from the Bug Creek Anthills. We suggest that this taxon infrequently moved into the freshwater rivers to forage. *Lonchidion selachos* occurs only in the upper Hell Creek Formation, and we hypothesize that the upper Hell Creek localities were deposited during a warm interval, as the paleodistribution of *L. selachos* shifted significantly to the north during warmer periods in the Santonian and Campanian. Of the taxa found in the Hell Creek Formation and the Bug Creek Anthills, only *Myledaphus* is found in Paleogene deposits; however, specimens are extremely rare. The occurrence of *Myledaphus* in the Paleogene is suggested to be due to the occurrence of reworked material.

CUNY, G. & LIARD, R. & DEESRI, U. & LIARD, T. & KHAMHA, S. & SUTEETHORN, V. (2014): Shark faunas from the Late Jurassic—Early Cretaceous of northeastern Thailand. *Paläontologische Zeitschrift, 88* (3): 309-328

New species: *Acrodus kalasinensis*

Abstract: A revision of the freshwater shark fauna from the Phu Kradung Formation in NE Thailand allows the recognition of a new species of *Acrodus*, which represents the youngest occurrence of the genus and confirms its displacement in freshwater environments after the Toarcian. The rest of the shark fauna includes teeth of *Hybodus* sp., aff. *Hybodus* sp., hybodontid dermal denticles, *Jaiodontus* sp., *Lonchidion* sp. A, *Lonchidion* sp. B, *Heteroptychodus* cf. *H. kokutensis* and dorsal fin spines. The presence of *Jaiodontus* and of unusual hybodontid dermal denticles suggests a Jurassic age for most of the Phu Kradung Formation, whereas the presence of *Heteroptychodus* suggests an Early Cretaceous age for the top of the Formation. However, the age of the Phu Kradung Formation is still uncertain, with contradictory signals coming from palynology, detrital zircon thermochronology and vertebrate palaeontology. In any case, it appears that this is the oldest occurrence of the genus *Heteroptychodus*, and suggests a Thai origin for this genus, which may have replaced *Acrodus* in the Thai freshwater palaeoecosystems. Together with *Acrodus*, the presence of *Lonchidion* sp. A suggests some European affinities for the shark fauna from the Phu Kradung Formation.

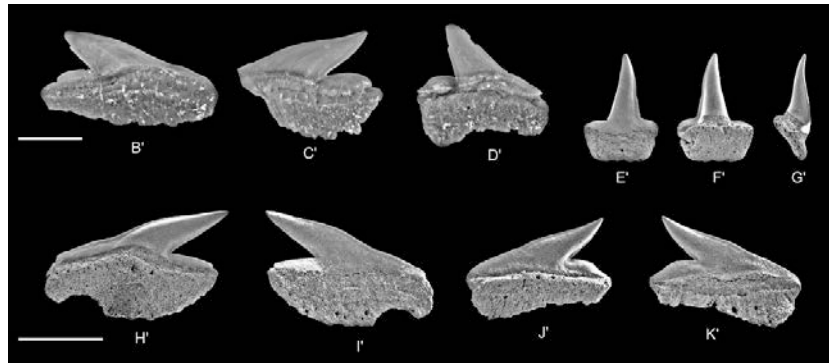
GROGAN, E.D. & LUND, R. & FATH, M. (2014): A New Petalodont Chondrichthyan from the Bear Gulch Limestone of Montana, USA, with Reassessment of *Netsepoye hawesi* and Comments on the Morphology of Holomorphic Petalodonts. *Paleontological Journal, 48* (9): 1003-1014

New genus: *Obruchevodus*

New species: *Obruchevodus griffithi*

Abstract: A new holomorphic petalodont from the Bear Gulch Limestone, *Obruchevodus griffithi*, is described and features of the related *Netsepoye hawesi* are reinterpreted. Comparison of these taxa with the holomorphic petalodonts *Janassa bituminosa*, *Belantsea montana*, and *Siksika ottae* provide insight into petalodont anatomical form and variation. All holomorphic material supports holostyly and nested, subcranial branchial arches. Teeth occur in families with linguo-labial replacement but alignment of most families relative to the jaw ramus results in a staggered tooth alignment between adjacent tooth families. Symphyseal teeth are the exception to this pattern. Tooth retention is clearly indicated only in the homodont *Janassa bituminosa*. In contrast there is no evidence of tooth retention

in examined petalodonts with a heterodont dentition. There is variation in styles of squamation among all forms; sexual dimorphism in scale development and distribution are suggested as well. Despite depressiform and compressiform conditions there is commonality in possession of a lobular, anteriorly extended and high aspect ratio pectoral fin, large pelvic fins, and absence of fin spines. Pectoral fins provide the primary means of locomotion. Variation in the ventral aspect of the pelvic girdle anatomy exists between that interpreted for *Janassa* and that documented by *Obruchevodus* and *Netsepoye*. Male claspers are long and highly flexible. Laterally compressed body forms display two dorsal fins (first being largest) that are variable in their vertical expanse along the length of the fin. Cranial anatomy shows some correspondence to general features of the Holocephali. Meckel's cartilage is dorso-ventrally deep, as in extant chimaeroids, with contralaterals in symphyseal fusion. Mandibular labial cartilages, when present, may be sexually dimorphic.



Echinorhinus vielhus GUINOT, CAPPETTA & ADNET, 2014, p. 64: scale bars $\frac{1}{4}$ 1 mm. B' , lateral tooth in lingual view (VAL 124). C' , lateral tooth in lingual view (VAL 125). D' , antero-lateral tooth in lingual view (VAL 126). E'eG' , symphyseal tooth in E' , labial, F' , lingual and G' , profile views (VAL 127). H'eI' , lateral tooth in H' , lingual and I' , labial views (VAL 128), holotype. J' , lateral tooth in J' , lingual and K' , labial views (VAL 129)

GUINOT, G. & CAPPETTA, H. & ADNET, S. (2014): A rare elasmobranch assemblage from the Valanginian (Lower Cretaceous) of southern France. *Cretaceous Research*, 48: 54–84

New species: *Antrigoulia circumplicata*, *Gladioserratus dentatus*, *Occitanodus sudrei*, *Echinorhinus vielhus*, *Pseudorhina crocheti*, *Paracestracion pectinatus*, *Ornatoscyllium rugasimulatum*, *Garrigascyllum aganticensis*, *Magistrauia unicaplicata*, *Parahemisycyllum underwoodwardi*, *Archaeogaleus lengadocensis*, *Thiesus concavus*, *Cadiera camboensis*,

Abstract: Bulk sampling of a Valanginian indurate limestone horizon from southern France yielded a very high-diversity shark and ray assemblage. Thirteen new species and eight new genera (*Antrigoulia circumplicata* gen. et sp. nov., *Gladioserratus dentatus* sp. nov., *Occitanodus sudrei* gen. et sp. nov., *Echinorhinus vielhus* sp. nov., *Pseudorhina crocheti* sp. nov., *Paracestracion pectinatus* sp. nov., *Ornatoscyllium rugasimulatum* sp. nov., *Garrigascyllum aganticensis* gen. et sp. nov., *Magistrauia unicaplicata* gen. et sp. nov., *Parahemisycyllum underwoodwardi* gen. et sp. nov., *Archaeogaleus lengadocensis* gen. et sp. nov., *Thiesus concavus* gen. et sp. nov., *Cadiera camboensis* gen. et sp. nov.) are described among a total diversity of 26 species, 24 genera and one undetermined taxon. This is the second Valanginian elasmobranch assemblage known so far and is a rare evidence of Mesozoic outer-platform marine chondrichthyan diversity. Comparison of this assemblage with 16 other Late Jurassic and Early Cretaceous faunas indicates that the French fauna shares more similarities with Jurassic faunal compositions. The number of new familial occurrences (Carcharhinidae, Echinorhinidae, Pseudorhinidae) and uncommon dominance of hexanchiform taxa (mainly *Welcommia bodeuri* and *Paraorthacodus jurensis*) are due to the poor representation of corresponding depositional settings in the Mesozoic elasmobranch fossil record.

IVANOV, A.O. & LEBEDEV, O.A. (2014): Permian chondrichthyans of the Kanin Peninsula, Russia. *Paleontological Journal*, 48 (9): 1030-1043

New genus: *Kanodus*

New species: *Kanodus robustus*

Abstract: Chondrichthyan fish remains reported from the Permian (Kazanian) deposits of the Chiosha Bay, and the lower course of the Nadtey River of the Kanin Peninsula (Nenets Autonomous District, Arkhangelsk Region, Russia) include dental elements and scales belonging to *Stethacanthus* cf. *S. altonensis* (St. John et Worthen, 1875), Symmoriiformes gen. indet., "*Ctenacanthus*" sp. and "*Lissodus*" sp., Euselachii gen. indet., *Adamantina benedictae* Bendix-Almgreen, 1993 and *Kanodus robustus* sp. nov. The latter genus is assigned to the previously monotypic family Psephodontidae. The record of *Stethacanthus* in the Middle Permian of Russia is its youngest occurrence worldwide, whilst the occurrence of *Adamantina benedictae* in the Middle Permian of the Kanin Peninsula is older than the Greenland record.

JOHNS, M.J. & ALBANESI, G.L. & VOLDMAN, G.G. (2014): Freshwater Shark Teeth (Family Lonchidiidae) from the Middle—Upper Triassic (Ladinian—Carnian) Paramillo Formation in the Mendoza Precordillera, Argentina. *Journal of Vertebrate Paleontology*, 34 (3): 512-523 <http://dx.doi.org/10.1080/02724634.2013.803976>

New species: *Lonchidion paramilloensis*

Abstract: A collection of over 550 elasmobranch teeth (Family Lonchidiidae) were obtained from fresh water fluvial deposits of the Middle—Upper Triassic (Ladinian—Carnian) Paramillo Formation, in northwestern Mendoza Province, Argentina. The new hybodontid species, *Lonchidion paramilloensis*, sp. nov., solely based on teeth, is within a 20-m-thick interval containing black shale interbedded with andesitic sills and intercalated with lensoidal calcarenites. The teeth have a characteristic labial peg with an accessory cusplet and a low gracile crown that is narrower labiolingually and more elongate laterally. The teeth are similar to some North American Late Triassic and Late Cretaceous species of the genus *Lonchidion* (e.g., *L. humblei*, *L. griffisi*, *L. selachos*), but are distinct in having a low primary cusp, up to seven pairs of lateral cusplets, a rounded-triangular-shaped labial peg with one accessory cusplet, and an absence of other crown ornaments. Color analyses of upper tooth crowns indicate an ichthyolith alteration index (IAI)/conodont alteration index (CAI) value of 6.0–6.5 (360–610°C). Considerable pitting and alteration of specimens indicates thermal alteration to 610° C and (or) chemical alteration.

LUND, R. & GROGAN, E.D. & FATH, M. (2014): On the relationships of the Petalodontiformes (Chondrichthyes). *Paleontological Journal*, 48 (9): 1015-1029

New genus: *Fissodopsis*

New species: *Fissodopsis robustus*

Abstract: The Petalodontiformes are Upper Paleozoic marine euchondrocephalan chondrichthyans known primarily from isolated teeth. Few dentitions have been reported, among them that of the Permian *Janassa bituminosa* and "*Janassa*" *korni* and the Serpukhovian, Mississippian *Belantsea montana*, *Obruchevodus griffithi*, *Netsepoye hawesi* and *Siksika ottae*. A dentition has been reconstructed for the Pennsylvanian *Petalodus ohioensis*. New information on dentitions and postcranial morphology is now introduced for petalodont remains from the Bear Gulch Limestone of Montana (USA). These include *N. hawesi*, *Petalorhynchus beargulchensis*, several specimens bearing teeth of the *Fissodus* form, and a new genus and species, *Fissodopsis robustus*. Analysis of all material reveals dignathic heterodonty as prevalent among the Upper Mississippian petalodonts, with distinct regionalization resulting in large anterior and small lateral teeth. *Fissodus*-style teeth are found as the lower median tooth position of most heterodont dentitions, with a *Ctenoptychius*-like upper anterior tooth or teeth, accompanied by lateral upper and lower teeth of *Janassa*-like form. As heterodonty seems to have been the plesiomorphic condition not only in these petalodonts but for the Euchondrocephali as well, a model is proposed to explain the derived homodont conditions found in *Petalodus* (Hansen, 1985), *Polyrhizodus* (Lund, 1983), *Belantsea* (Lund, 1989), and *J. bituminosa* (Jaekel, 1899). The principally dentition-based cladistic analysis retains the previously erected families Petalodontidae, Belantseidae, and Janassidae, rejects the assignment of "*J.*" *korni* to *Janassa*, and suggests a heterodont clade for the remaining taxa. Two new families are designated on the basis of these data, the Petalorhynchidae and the Obruchevodidae.

LYAPIN, V.R. & BAGIROV, S.V. (2014): The first record of *Copodus* Davis, 1883 (Chondrichthyes, Copodontiformes) from the Steshevian Regional Stage (Serpukhovian, Lower Carboniferous) of the Moscow Region. *Paleontological Journal*, 48 (10): 1045-1059

New species: *Copodus lebedevi*

Abstract: Deposits of the Steshevian Regional Stage of the Lower Carboniferous Serpukhovian of the Moscow Region have yielded abundant and taxonomically diverse fish remains, which are usually disarticulated but frequently well preserved. The dental plates of chondrichthians assigned to the genus *Copodus* Davis, 1883 (Copodontiformes, Copodontidae), collected in the Zabor'e and Kalinovskie Vyselki localities (Moscow Region, Serpukhovskii District), have not previously been recorded in these beds. A new species, *Copodus lebedevi* sp. nov., is established based on the shape of plates, crown sculpturing, and unique shape of the wear facet. *C. angulatus* (Davis, 1883); *C. cornutus* Davis, 1883; *C. planus* (Davis, 1883); *C. spatulatus* Davis, 1883, *C. aff. planus* (Davis, 1883), *C. cf. prototypus* Davis, 1883, and *C. aff. spatulatus* Davis, 1883 are described for the first time from the Serpukhovian of Russia. The occlusal pattern of the upper and lower jaw plates in various species of the genus *Copodus* is reconstructed experimentally based on the shape of the wear facet. This shape depends on the structure of the upper and lower jaw plates and their particular parts and is distinctive in each species.

MARTILL, D.M. & DEL STROTHER, P.J.A. & GALLIEN, F. (2014): *Acanthorhachis*, a new genus of shark from the Carboniferous (Westphalian) of Yorkshire, England. *Geological Magazine*, 151 (3): 517-533

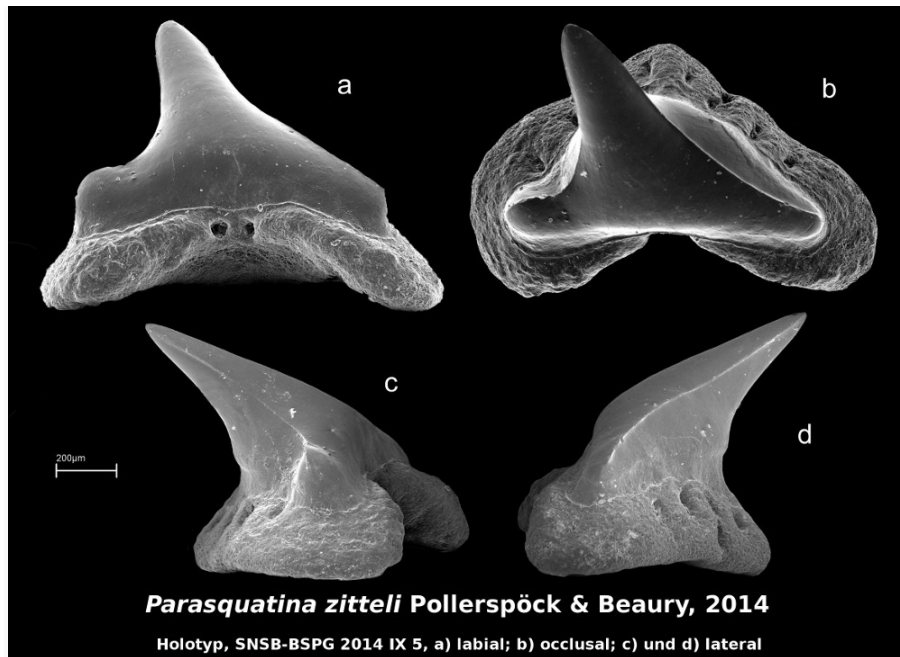
New genus: *Acanthorhachis*

Abstract: An association of diverse hollow spines and dermal denticles (ichthyoliths) from the Carboniferous (Westphalian) of Todmorden, Yorkshire, England are attributed to a new genus of enigmatic shark that may lie close to *Listracanthus* Newberry & Worthen, 1870. Scanning electron microscopy shows that denticle morphology is highly variable, but forms a morphocline including elongate multi-spined elements as well as robust dome-like stellate denticles and recurved spinose elements. Histological analysis suggests an absence of enameloid. Continuous variation of form between elongate multi-cusped spines to boss-like circular denticles shows that all previously described Palaeozoic species of *Listracanthus* are probably junior synonyms of the type species *L. hystrix* Newberry & Worthen, 1870. The status of *Listracanthus* as a surviving 'Lilliputian' taxon after the Permian extinction is questioned. Although the new specimen has affinities with *Listracanthus*, significant differences in the form of the posterior spines on elongate denticles warrants its placement in the new genus *Acanthorhachis* gen. nov. The family *Listracanthidae* is erected to accommodate *Listracanthus* and *Acanthorhachis*.

PAULIV, V.E. & DIAS, E.V. & SEDOR, F.A. & RIBEIRO, A.M. (2014): A new Xenacanthiformes shark (Chondrichthyes, Elasmobranchii) from the late Paleozoic Rio do Rasto formation (Paraná basin), southern Brazil. *Anais da Academia Brasileira de Ciencias*, 86 (1): 135-145

New species: *Xenacanthus ragonhai*

Abstract: The Brazilian records on Xenacanthiformes include teeth and cephalic spines from the Parnaíba, Amazonas and Paraná basins. This work describes a new species of Xenacanthidae, collected in an outcrop of Serrinha Member of Rio do Rasto Formation (Wordian to Wuchiapingian), Paraná Basin, municipality of Jacarezinho, State of Paraná. The teeth of the new species are two or three-cuspidated and the aboral surface show a smooth concavity and one rounded basal tubercle. The coronal surface presents one semi-spherical and subcircular coronal button, and also two lateral main cusps and one central (when present) with less than one fifth of the size of the lateral cusps in the labial portion. The lateral cusps are asymmetric or symmetric, rounded in transversal section, lanceolate in longitudinal section, devoid of lateral carinae and lateral serrations, and with few smooth cristae of enameloid. In optical microscope the teeth show a trabecular dentine (osteodentine) base, while the cusps are composed by orthodentine, and the pulp cavities are non-obiterated by trabecular dentine. The fossil assemblage in the same stratigraphical level and in the whole Rio do Rasto Formation indicates another freshwater record for xenacanthid sharks.



POLLERSPOECK, J. & BEAURY, B. (2014): *Parasquatina zitteli* nov. sp. (Elasmobranchii: Orectolobiformes) aus dem Maastricht von Oberbayern (Gerhartsreiter Schichten, Siegsdorf) und Bemerkungen zur Verbreitung der Ordnung Orectolobiformes. [*Parasquatina zitteli* nov. sp. (Elasmobranchii: Orectolobiformes) from the Maastrichian of Upper Bavaria (Gerhartsreiter Ditch, Siegsdorf), with remarks on the distribution of the order Orectolobiformes.] *Zitteliana*, A54: 147-164

New species: *Parasquatina zitteli*

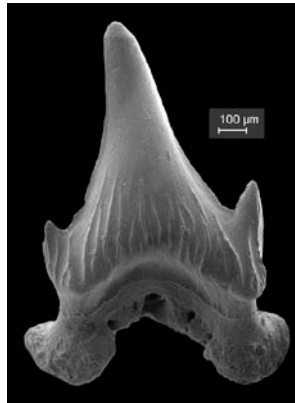
Abstract: The genus *Parasquatina* is documented for the first time from the Gerhartsreiter Ditch near Siegsdorf (Upper Bavaria, Germany). The fossils are interpreted as a new species, for which the name *Parasquatina zitteli* nov. sp. is proposed, because they differ in morphology from all other species in that genus, especially with regard to the labial apron, which is absent in *P. zitteli*. Assignment of the genus *Parasquatina* to the order Squatiniformes is reversed, and the genus now placed in the order Orectolobiformes. In addition, a survey of recent records of *Parasquatina* is given, together with an up-to-date overview of the stratigraphic distribution of the order Orectolobiformes, and resulting questions are discussed.

PRADEL, A. & MAISEY, J.G. & TAFFOREAU, P. & MAPES, R.H. & MALLATT, J. (2014): A Palaeozoic shark with osteichthyan-like branchial arches. *Nature*, 509: 608–611

New genus: *Ozarcus*

New species: *Ozarcus mapesae*

Abstract: The evolution of serially arranged, jointed endoskeletal supports internal to the gills—the visceral branchial arches—represents one of the key events in early jawed vertebrate (gnathostome) history, because it provided the morphological basis for the subsequent evolution of jaws^{1, 2, 3, 4, 5}. However, until now little was known about visceral arches in early gnathostomes^{6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17}, and theories about gill arch evolution were driven by information gleaned mostly from both modern cartilaginous (chondrichthyan) and bony (osteichthyan) fishes. New fossil discoveries can profoundly affect our understanding of evolutionary history, by revealing hitherto unseen combinations of primitive and derived characters^{18, 19}. Here we describe a 325 million year (Myr)-old Palaeozoic shark-like fossil that represents, to our knowledge, the earliest identified chondrichthyan in which the complete gill skeleton is three-dimensionally preserved in its natural position. Its visceral arch arrangement is remarkably osteichthyan-like, suggesting that this may represent the common ancestral condition for crown gnathostomes. Our findings thus reinterpret the polarity of some arch features of the crown jawed vertebrates and invert the classic hypothesis, in which modern sharks retain the ancestral condition^{3, 20}. This study underscores the importance of early chondrichthyans in resolving the evolutionary history of jawed vertebrates.



REINECKE, T. (2014): Two new scyliorhinid shark species (Elasmobranchii, Carcharhiniformes, Scyliorhinidae), from the Sülstorf Beds (Chattian, Late Oligocene) of the southeastern North Sea Basin, northern Germany. *Palaeovertebrata*, 38 (1): 1-8

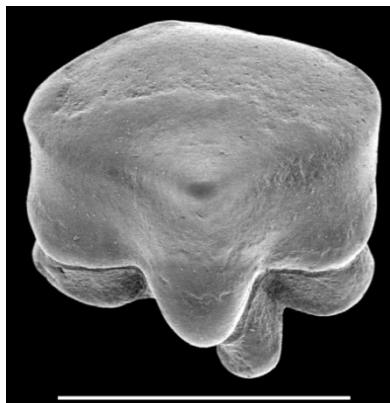
New species: *Scyliorhinus biformis*, *Scyliorhinus suelstorfensis*

Abstract: Based on isolated teeth two new scyliorhinid shark species, *Scyliorhinus biformis* nov. sp. and *Scyliorhinus suelstorfensis* nov. sp., are described from the Sülstorf Beds, early-middle Chattian, of Mecklenburg, northeastern Germany. They form part of a speciose assemblage of necto-benthic sharks and batoids which populated the warm-temperate to subtropical upper shelf sea of the southeastern North Sea Basin.

SHIMADA, K. & WELTON, B.J. & LONG, D.J. (2014): A new fossil megamouth shark (Lamniformes, Megachasmidae) from the Oligocene-Miocene of the western United States. *Journal of Vertebrate Paleontology*, 34 (2): 281-290

New species: *Megachasma applegatei*

Abstract: The extant megamouth shark, *Megachasma pelagios* (Lamniformes: Megachasmidae), is a large filter-feeding fish. We here describe a new species of *Megachasma*, *M. applegatei*, sp. nov., a putative sister species of the extant *M. pelagios*, based on isolated teeth from late Oligocene–early Miocene (late Chattian–Aquitania) marine deposits in California and Oregon, U.S.A. Although showing a megachasmid tooth design, teeth of *M. applegatei*, sp. nov., exhibit a wide morphological range and are reminiscent to those of odontaspimid sharks with strong heterodonty. *Megachasma applegatei*, sp. nov., could have commonly measured approximately 6 m in total length and likely had a wide range of diet, possibly including small fishes and planktonic invertebrates. The fossil record indicates that either *M. applegatei*, sp. nov., was broadly adapted to a wide bathymetric tolerance or was a nektonic feeder over both deep and shallow water habitats.



VULLO, R. & COURVILLE, P. (2014): Fish remains (Elasmobranchii, Actinopterygii) from the Late Cretaceous of the Benue Trough, Nigeria. *Journal of African Earth Sciences*, 97: 194–206 <http://dx.doi.org/10.1016/j.jafrearsci.2014.04.016>

New species: *Rhombopterygia zaborskii*

Abstract: Selachian and ray-finned fish remains from various Late Cretaceous localities of Nigeria are described. Each locality has yielded only a very few specimens and the diversity is therefore very low. However, some taxa are recorded for the first time in Africa. The Ashaka locality in the Upper Benue Trough (northeastern Nigeria) has yielded a small but interesting late Cenomanian assemblage of microremains, including teeth of “*Carcharias*” *amonensis*, *Rhombopterygia zaborskii* sp. nov., *Hamrabatis* sp., “*Stephanodus*” sp., and a possible ionoscopiform. A large prearticular dentition coming from the early Turonian beds of this locality is assigned to the large pycnodontiform *Acrotemnus*, a poorly known genus here regarded as a senior synonym of *Macropycnodon*. In the Lower Benue Trough (southeastern Nigeria), several localities ranging in age from the late Cenomanian to the early Maastrichtian have yielded various widespread taxa such as *Ptychodus*, *Scapanorhynchus*, *Squalicorax*, *Vidalamiinae* indet., cf. *Protosphyraena*, and *Eodiaphyodus*. The seaway that occupied the Benue Trough during transgressive episodes (late Cenomanian–early Turonian and Maastrichtian) created opportunities for the dispersal of many marine fish taxa into new areas, such as the proto-South Atlantic.

WELTON, B.J. (2014): A new fossil basking shark (Lamniformes: Cetorhinidae) from the Middle Miocene Sharktooth Hill Bonebed, Kern County, California. *Contributions in Science*, 522: 29-44

New species: *Cetorhinus huddlestoni*

Abstract: Isolated teeth of a middle Miocene cetorhinid genus, *Cetorhinus* Blainville 1816, occur abundantly in rocks of the Round Mountain Silt, Sharktooth Hill Bonebed, southeastern San Joaquin Valley, Kern County, California. Tooth sets of juvenile and adult dentitions of the Sharktooth Hill *Cetorhinus* were reconstructed and used as a basis for description of a new species, *C. huddlestoni*. The teeth of *C. huddlestoni* are of about the same size as those of adult *C. maximus*, the only other species of *Cetorhinus*. *Cetorhinus huddlestoni* has weak gradient monognathic heterodonty, moderate dignathic heterodonty, no disjunct monognathic heterodonty in either jaw, and strong ontogenetic heterodonty; there is presently no evidence of sexual dimorphism. Attributes noted in *C. huddlestoni* and absent in *C. maximus* include the following: bilobate roots in most adult teeth; broad based crowns with a wide, tall cusp and sharp apex in adult teeth; narrow and erect crowns in juvenile teeth; a smooth mesial and distal profile across the crown foot–root junction; mesial cusplets on some teeth from distal tooth rows in juveniles, and the sporadic occurrence of a bladelike mesial cusplet in some adult teeth; long mesial cutting ridges in adult teeth. Relative to *C. huddlestoni*, the teeth of *C. maximus* appear to be more reduced, in having narrower cusps with rounded or blunt apices in adults; much higher lingual necks; hooklike, nearly horizontal cusps in juveniles; and significantly more robust, bulbous roots, perhaps to compensate for the loss of root lobes. *Cetorhinus huddlestoni* is presently only known from the eastern North Pacific, middle Miocene Round Mountain Silt, Sharktooth Hill Bonebed, and most closely resembles *Cetorhinus* cf. *C. maximus* from the early Pliocene Sands of Kattenjijk near Kallo, Belgium.

3.2 Descriptions of extant species

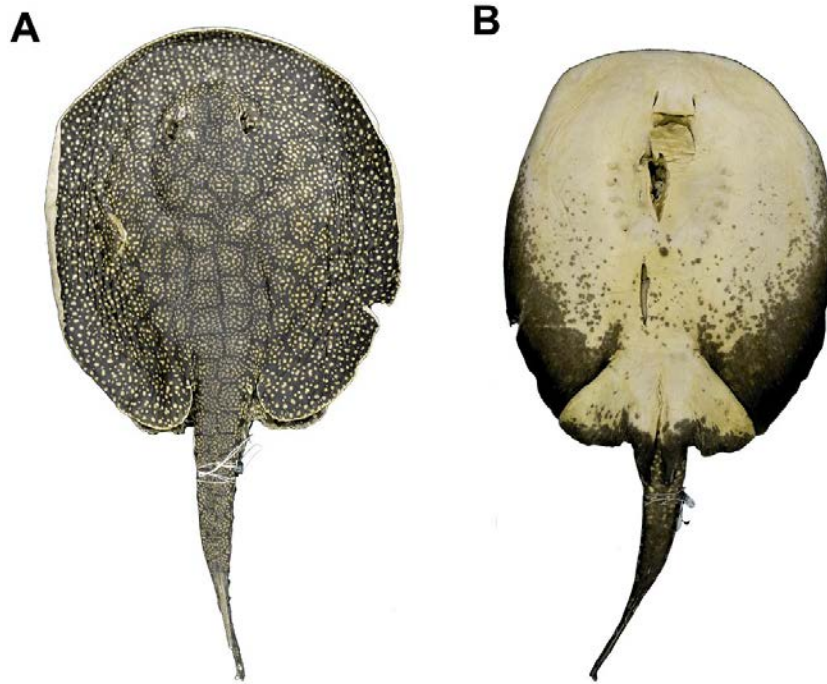


Chimaera orientalis ANGULO, LÓPEZ, BUSSING & MURASE, 2014 © Arturo Angulo Sibaja, Universidad de Costa Rica;
Paratype: UCR 2909-05.02, male, 760 mm TL, 475 mm BDL

ANGULO, A. & LÓPEZ, M.I. & BUSSING, W.A. & MURASE, A. (2014) Records of chimaeroid fishes (Holocephali: Chimaeriformes) from the Pacific coast of Costa Rica, with the description of a new species of Chimera (Chimaeridae) from the eastern Pacific Ocean. *Zootaxa*, 3861 (6): 554-574

New species: *Chimaera orientalis*

Abstract: A new species of *Chimaera* Linnaeus 1758 is described from three specimens collected from off the Pacific coasts of Costa Rica and Peru. *Chimaera orientalis* n. sp., the first species of the genus described from the eastern Pacific Ocean, is distinguished from its other congeners by a combination of coloration and morphology. Additionally, new records of occurrence for another four species of chimaeroid fishes (*Harriotta raleighana* (Goode & Bean 1895), *Rhinochimaera africana* Compagno, Stehmann & Ebert 1990, *Hydrolagus colliei* Lay & Bennett 1839, and *H. macrophthalmus* de Buen 1959) previously unknown for the continental shelf of the Pacific coast of Costa Rica and Central America are reported. A key to the eastern Pacific species of the order Chimaeriformes is also presented.



Holotype of *Potamotrygon limai*, sp. nov. (MZUSP 104031, adult male, 498 mm DW). (A) Dorsal view; (B) Ventral view; © JOÃO PAULO C. B. DA SILVA

FONTENELLE, J.P. & DA SILVA, J.P.C.B. & DE CARVALHO, M.R. (2014): *Potamotrygon limai*, sp. nov., a new species of freshwater stingray from the upper Madeira River system, Amazon basin (Chondrichthyes: Potamotrygonidae). *Zootaxa*, 3765 (3): 249–268

New species: [Potamotrygon limai](#)

Abstract: *Potamotrygon limai*, sp. nov., is described from the Jamari River, upper Madeira River system (Amazon basin), state of Rondônia, Brazil. This new species differs from congeners by presenting unique polygonal or concentric patterns formed by small whitish spots better defined over the posterior disc and tail-base regions. *Potamotrygon limai*, sp. nov., can be further distinguished from congeners in the same basin by other characters in combination, such as two to three rows of midtail spines converging to a single irregular row at level of caudal sting origin, proportions of head, tail and disc, patterns of dermal denticles on rostral, cranial and tail regions, among other features discussed herein. *Potamotrygon limai*, sp. nov., is most similar to, and occurs sympatrically with, *P. scobina*, and is distinguished from it by lacking ocellated spots on disc, by its characteristic polygonal pattern on posterior disc, a comparatively much shorter and broader tail, greater intensity of denticles on disc, more midtail spine rows at tail-base, and other features including size at maturity and meristic characters. *Potamotrygon limai*, sp. nov., is also distinguished from other species of *Potamotrygon* occurring in the Amazon region, except *P. scobina*, by presenting three angular cartilages (vs. two or one). This new species was discovered during a detailed taxonomic and morphological revision of the closely related species *P. scobina*, and highlights the necessity for thorough and all-embracing taxonomic studies, particularly in groups with pronounced endemism and morphological variability.



Apristurus breviventralis KAWAUCHI, WEIGMANN & NAKAYA, 2014, holotype, © Simon Weigmann, Hamburg

KAWAUCHI, J. & WEIGMANN, S. & NAKAYA, K. (2014): *Apristurus breviventralis*, a new species of deep-water catshark (Chondrichthyes: Carcharhiniformes: Scyliorhinidae) from the Gulf of Aden. *Zootaxa*, 3881 (1): 001–016

New species: [Apristurus breviventralis](#)

Abstract: A new deep-water catshark of the genus *Apristurus* Garman, 1913 is described based on nine specimens from the Gulf of Aden in the northwestern Indian Ocean. *Apristurus breviventralis* sp. nov. belongs to the 'brunneus group' of the genus and is characterized by having pectoral-fin tips reaching beyond the midpoint between the paired fin bases, a much shorter pectoral-pelvic space than the anal-fin base, a low and long-based anal fin, and a first dorsal fin located behind pelvic-fin insertion. The new species most closely resembles the western Atlantic species *Apristurus canutus*, but is distinguishable in having greater nostril length than internarial width and longer claspers in adult males. *Apristurus breviventralis* sp. nov. represents the sixth species of *Apristurus* from the western Indian Ocean and the 38th species globally.



Chimaera carophila KEMPER, EBERT, NAYLOR, G.J.P. & DIDIER, 2014; Holotype P.45580, adult male, 915 mm TL, 541 mm BDL; © David Ebert

KEMPER, J.M. & EBERT, D.A. & NAYLOR, G.J.P. & DIDIER, D.A. (2014): *Chimaera carophila* (Chondrichthyes: Chimaeriformes: Chimaeridae), a new species of chimaera from New Zealand. *Bulletin of Marine Science*, 91 (1): 000-000

New species: [Chimaera carophila](#)

Abstract: A new species of chimaeroid, *Chimaera carophila* sp. nov., is described from 37 specimens collected from deepwater slopes and seamounts around New Zealand. The new species is distinguished from its closest congeners, *Chimaera fulva* Didier et al. 2008, *Chimaera macrospina* Didier et al. 2008, and *Chimaera obscura* Didier et al. 2008, by its uniform pale-brown coloration, geographic distribution, and a combination of morphological characters, including longer dorsal and ventral caudal fin bases, a shorter first dorsal fin height, a shorter dorsal fin spine, and shorter claspers that are divided distally for one-third of their length. *Chimaera carophila* sp. nov. also can be

distinguished from closely related species in New Zealand and Australian waters based on DNA sequence divergence of the NADH2 gene. Comparisons of body size in a large sample of specimens show considerable overlap in character ranges among congeners making species distinctions difficult. New combinations of morphometrics are suggested including ratios of head length to eye length and dorsal spine length to head length, to better distinguish among species of chimaeroids that are similar in overall appearance and size. Also, a key to New Zealand and Australian *Chimaera* species is provided.



Rhinobatos whitei LAST, CORRIGAN & NAYLOR, 2014, adolescent male holotype, 597 mm TL (PNM 15189). Dorsal view (fresh from copy of printed image); © Peter Last, CSIRO - Australian National Fish Collection

LAST, P.R. & CORRIGAN, S. & NAYLOR, G.J.P. (2014): *Rhinobatos whitei*, a new shovelnose ray (Batoidea: Rhinobatidae) from the Philippine Archipelago. *Zootaxa*, 3872 (1): 31-47

New species: [Rhinobatos whitei](#)

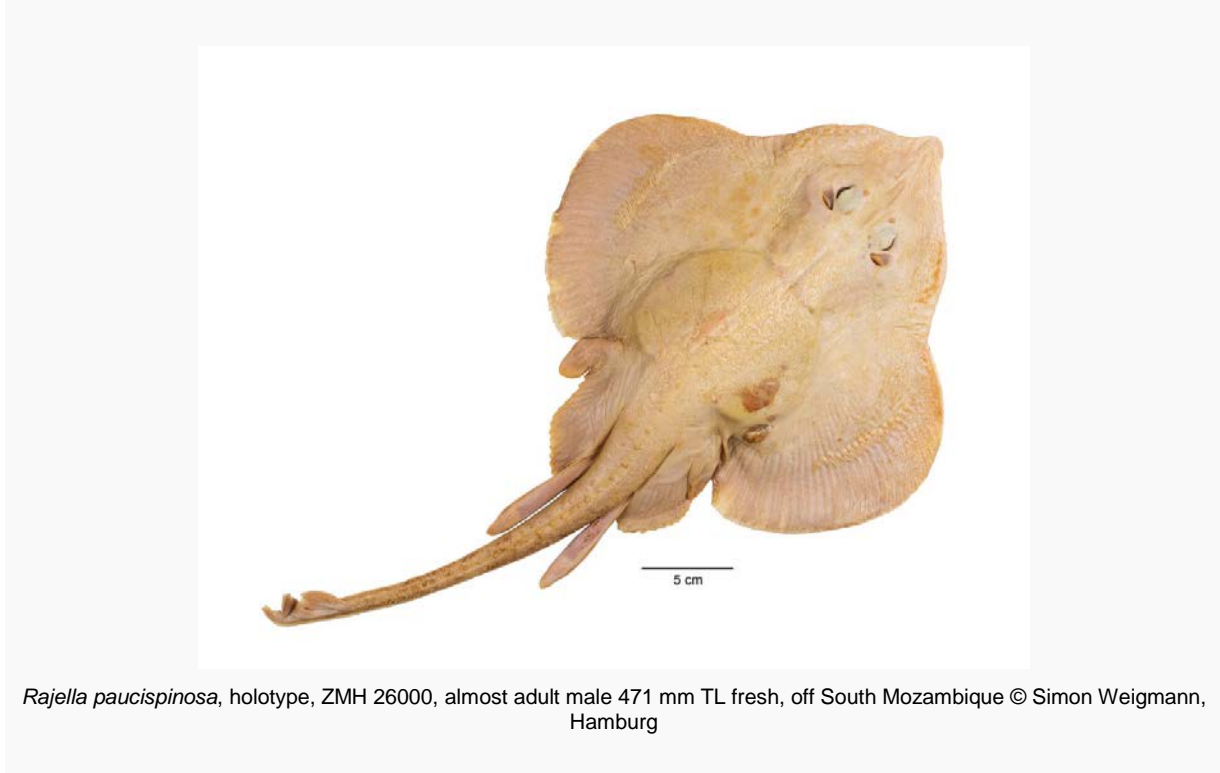
Abstract: A new shovelnose ray, *Rhinobatos whitei* sp. nov., is described from material collected at fish markets of the southern Philippines. This ray was first formally identified as an undescribed species more than a decade ago as part of a WWF funded survey of sharks and rays of the Philippines. It was considered to be most closely related to another shovelnose ray found nearby in the western North Pacific, *R. schlegelii*, but differs from that species in body shape and aspects of coloration, meristics and morphometry. It differs from all other shovelnose rays of the region in its NADH2 sequence, clustering together with an Indonesian species *R. jimbaranensis*, and another undescribed species from Borneo.

WEIGMANN, S. & STEHMANN, M. & THIEL, R. (2014): Complementary redescription of *Anacanthobatis ori* (Wallace, 1967) and its assignment to *Indobatis* n. g. (Elasmobranchii, Anacanthobatidae), with comments on other legskates. *Zootaxa*, 3779 (2): 101-132

New genus: *Indobatis*

Abstract: *Anacanthobatis ori* is one of the least known species of the family Anacanthobatidae with only four juvenile specimens reported. The species remained assigned to the genus *Anacanthobatis* sensu lato due to the lack of an adult male as external and skeletal clasper characters are the essential diagnostic features for the differentiation of genera and subgenera within the family Anacanthobatidae. Since an adult male of *A. ori* became available, along with an adult female and six further juveniles, the authors reinvestigated the species and present its so far unknown diagnostic characters of clasper morphology and skeleton and scapulocoracoid. The clasper turned out to be the most complex one of all known anacanthobatids as the external components flag, slit, pseudosiphon-like cavity, pecten, and two sentinas are not known from any other anacanthobatid species. Furthermore, a dorsal terminal 1 cartilage is present but displaced proximally of the terminal clasper skeleton, the outer edge of dorsal terminal 2 is deeply serrated, the ventral terminal has a very long, curved, straplike process, and the proximal part of accessory terminal 1 is embedded in the cavity of

the baseball-glove-like head of accessory terminal 2. Due to the strong differences in external and internal clasper characters to all other known anacanthobatid species, *A. ori* is placed in its own, newly erected genus, *Indobatis*.



WEIGMANN, S. & STEHMANN, M. & THIEL, R. (2014): *Rajella paucispinosa* n. sp., a new deep-water skate (Elasmobranchii, Rajidae) from the western Indian Ocean off South Mozambique, and a revised generic diagnosis. *Zootaxa*, 3847 (3): 359-387

New species: [Rajella paucispinosa](#)

Abstract: A new species of the widely in temperate and tropical latitudes distributed skate genus *Rajella* is described based on an almost adult male specimen from the western Indian Ocean off South Mozambique. The holotype of *R. paucispinosa* n. sp. was caught during cruise 17 of RV 'Vityaz' along the deep western Indian Ocean in 1988/89. It is the northernmost record of a *Rajella* specimen in the western Indian Ocean. The new species is the 18th valid species of the genus and the fifth species in the western Indian Ocean. It differs from its congeners in the small maximal total length of about 50 cm and only few thorns on the dorsal surface. The new species has only two thorns on each orbit, one nuchal thorn, one right scapular thorn (left one not detectable, abraded), and one median row of tail thorns. Other species of *Rajella* typically have half rings of thorns on orbital rims, a triangle of thorns on nape-shoulder region, and at least three rows of tail thorns. Another conspicuous feature of the new species is the almost completely white dorsal and ventral coloration.



Scymnodon ichiharai YANO & TANAKA, 1984; Will White, CSIRO, Australia

WHITE, W.T. & VAZ, D.F.B. & HO, H.-C. & EBERT, D.A. & DE CARVALHO, M.R. & CORRIGAN, S. & ROCHEL, E. & DE CARVALHO, M. & TANAKA, S. & NAYLOR, G.J.P. (2014): Redescription of *Scymnodon ichiharai* Yano and Tanaka 1984 (Squaliformes: Somniosidae) from the western North Pacific, with comments on the definition of somniosid genera. *Ichthyological Research*, in press

Redescribed species: [Scymnodon ichiharai](#)

Abstract: The somniosid species *Scymnodon ichiharai* Yano and Tanaka 1984 is redescribed based on the type specimens and additional material from Taiwan and Japan. The range of this species is extended to include Taiwanese waters. Although recently allocated to the genus *Zameus*, this species is very similar to *Scymnodon plunketi* from the southern Indo-West Pacific; our molecular evidence indicates that these species are sister-taxa. The genus *Proscymnodon* Fowler 1934 is placed in the synonymy of *Scymnodon* Barboza du Bocage and de Brito Capello 1864 and new generic definitions are provided for *Scymnodon* and the closely related *Zameus*. The genus *Scymnodon* is considered to include at least the species *S. ichiharai*, *S. plunketi*, and *S. ringens*; *Proscymnodon macracanthus* (Regan 1906) is allocated to *Scymnodon*, but its validity is uncertain. The genus *Zameus* is considered to be monotypic, containing only the species *Z. squamulosus*.

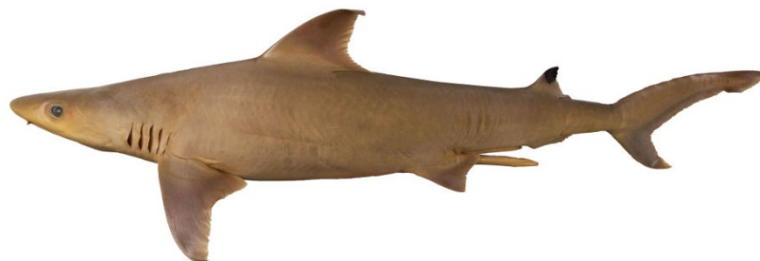


image: *Carcharhinus humani* WHITE & WEIGMANN, 2014, holotype, ZMH 26030, adult male 828 mm TL, © Simon Weigmann, University of Hamburg

WHITE, W.T. & WEIGMANN, S. (2014): *Carcharhinus humani* sp. nov., a new whaler shark (Carcharhiniformes:Carcharhinidae) from the western Indian Ocean. *Zootaxa*, 3821 (1): 71–87

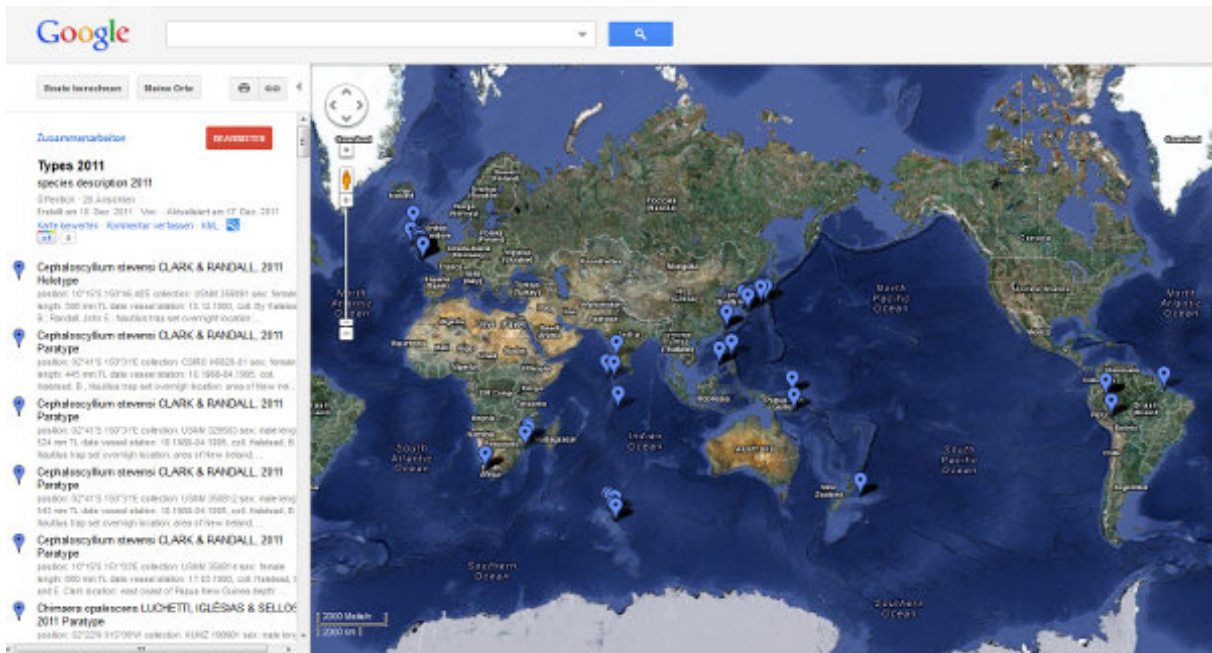
New species: [Carcharhinus humani](#)

Abstract: A new species of whaler shark, *Carcharhinus humani* sp. nov., is described based on five type specimens from the western Indian Ocean near the Socotra Islands, off Kuwait, Mozambique, and South Africa. The new species represents the fifth species of the *C. dussumieri/sealei* group and the third species of the *C. sealei* subgroup. The new species is the only species of the *C. sealei* subgroup known from the western Indian Ocean. Within the *C. sealei* subgroup, *C. humani* differs from *C. sealei* in having a sharply demarcated black apical marking on the second dorsal fin which does not extend onto body surface (vs. black marking diffuse-edged and usually extending onto upper sides of trunk), a longer horizontal preanial length (4.1–4.7 vs. 3.4–4.2% TL), and a longer preoral length

(6.8–7.6 vs. 5.7–6.5% TL); *C. humani* differs from *C. coatesi* in having a taller second dorsal fin (its height 4.0–4.5 vs. 2.9–3.6% TL), a shorter first dorsal fin (its length 13.4–14.6 vs. 14.8–17.3% TL), and more vertebrae (total centra 152–167 vs. 134–147).

Types in Google map

(<http://maps.google.com/maps/ms?msa=0&msid=217824177182325311271.0004b3bc714004039f92e&hl=de&ie=UTF8&ll=3.123195,53.281417&spn=106.420277,253.202833&t=h&vpsrc=6&source=embed>)



3.3 Parasitology

3.3.1 Research Articles

BAKOPOULOS, V. & KSIDIA, V.-C. (2014): Pontobdella muricata infection of Raja clavata and Dasyatis pastinaca off the coast of Lesvos, Greece. *Journal of the Marine Biological Association of the United Kingdom*, 94 (2): 405-409 <http://dx.doi.org/10.1017/S0025315413000830>

BEVERIDGE, I. & BRAY, R.A. & CRIBB, T.H. & JUSTINE, J.-L. (2014): Diversity of trypanorhynch metacestodes in teleost fishes from coral reefs off eastern Australia and New Caledonia. *Parasite (Paris, France)*, 21: 60 <http://dx.doi.org/10.1051/parasite/2014060>

BULGUROĞLU, S.Y. & KORUN, J. & GÖKOĞLU, M. & ÖZVAROL, Y. (2014): The marine leech Stibarobdella moorei (Oka, 1910) (Hirudinea, Piscicolidae) parasitic on the thornback ray Raja clavata Linnaeus, 1758 and angelshark Squatina squatina (Linnaeus, 1758) in Antalya Bay, Mediterranean Sea of Turkey. *Helminthologia*, 51 (3): 250-252 <http://dx.doi.org/10.2478/s11687-014-0237-4>

CAIRA, J.N. & JENSEN, K. (2014): A digest of elasmobranch tapeworms. *Journal of Parasitology*, 100 (4): 373-391 <http://dx.doi.org/10.1645/14-516.1>

CAIRA, J.N. & JENSEN, K. & WAESCHENBACH, A. & LITTLEWOOD, D.T.J. (2014): An enigmatic new tapeworm, Litobothrium aenigmaticum, sp nov (Platyhelminthes : Cestoda: Litobothriidea), from the pelagic thresher shark with comments on development of known Litobothrium species. *Invertebrate Systematics*, 28 (3): 231-243 <http://dx.doi.org/10.1071/IS13047>

CAIRA, J.N. & JENSEN, K. & WAESCHENBACH, A. & OLSON, P.D. & LITTLEWOOD, D.T.J. (2014): Orders out of chaos - molecular phylogenetics reveals the complexity of shark and stingray tapeworm relationships. *International Journal for Parasitology*, 44 (1): 55-73 <http://dx.doi.org/10.1016/j.ijpara.2013.10.004>

- CIELOCHA, J.J. & JENSEN, K. & CAIRA, J.N. (2014):** Floriparicapitus, a New Genus of Lecanicephalidean Tapeworm (Cestoda) from Sawfishes (Pristidae) and Guitarfishes (Rhinobatidae) in the Indo-West Pacific. *Journal of Parasitology*, 100 (4): 485-499 <http://dx.doi.org/10.1645/13-468.1>
- COSTA, G. & CHADA, T. & MELO-MOREIRA, E. & CAVALLERO, S. & D'AMELIO, S. (2014):** Endohelminth parasites of the leafscale gulper shark, *Centrophorus squamosus* (Bonnaterre, 1788) (Squaliformes: Centrophoridae) off Madeira Archipelago. *Acta Parasitologica*, 59 (2): 316-322 <http://dx.doi.org/10.2478/s11686-014-0247-x>
- CUTMORE, S.C. & MILLER, T.L. & CURRAN, S.S. & BENNETT, M.B. & CRIBB, T.H. (2014):** Phylogenetic relationships of the Gorgoderidae (Platyhelminthes: Trematoda), including the proposal of a new subfamily (Degeneriinae n. subfam.). *Parasitology Research*, 112 (8): 3063-3074 <http://dx.doi.org/10.1007/s00436-013-3481-5>
- GOLESTANINASAB, M. & MALEK, M. & ROOHI, A. & KARBASSI, A.R. & AMOOZADEH, E. & RASHIDINEJAD, R. & GHAYOUMI, R. & SURES, B. (2014):** A survey on bioconcentration capacities of some marine parasitic and free-living organisms in the Gulf of Oman. *Ecological Indicators*, 37 (A): 99-104 <http://dx.doi.org/10.1016/j.ecolind.2013.09.039>
- GRACAN, R. & MLADINEO, I. & LAZAR, B. (2014):** Insight into the diet composition and gastrointestinal parasite community of the common smooth-hound, *Mustelus mustelus* (Carcharhiniformes: Triakidae), in the northern Adriatic Sea. *Natura Croatica*, 23 (1): 35-44
- IRIGOITIA, M.M. & CANTATORE, D.M.P. & DELPIANI, G.E. & INCORVAIA, I.S. & LANFRANCHI, A.L. & TIMI, J.T. (2014):** *Merizocotyle euzeti* sp n. (Monogenea: Monocotylidae) from the nasal tissue of three deep sea skates (Rajidae) in the southwestern Atlantic Ocean. *Folia Parasitologica*, 61 (3): 206-212 <http://dx.doi.org/10.14411/fp.2014.031>
- JENSEN, K. & MOJICA, K.R. & CAIRA, J.N. (2014):** A new genus and two new species of lecanicephalidean tapeworms from the striped panray, *Zanobatus schoenleinii* (Rhinopristiformes: Zanobatidae), off Senegal. *Folia Parasitologica*, 61 (5): 432-440
- JENSEN, K. & RUSSELL, S.L. (2014):** *Seussapex*, a new genus of lecanicephalidean tapeworm (Platyhelminthes: Cestoda) from the stingray genus *Himantura* (Myliobatiformes: Dasyatidae) in the Indo-West Pacific with investigation of mode of attachment. *Folia Parasitologica*, 61 (3): 231-241 <http://dx.doi.org/10.14411/fp.2014.027>
- KURASHIMA, A. & SHIMIZU, T. & MANO, N. & OGAWA, K. & FUJITA, T. (2014):** A new combination and a new species of onchobothriid tapeworm (Cestoda: Tetraphyllidae: Onchobothriidae) from triakid sharks. *Systematic Parasitology*, 88 (1): 75-83 <http://dx.doi.org/10.1007/s11230-014-9486-3>
- LASKOWSKI, Z. & ROCKA, A. (2014):** Molecular identification larvae of *Onchobothrium antarcticum* (Cestoda: Tetraphyllidae) from marbled rockcod, *Notothenia rossii*, in Admiralty Bay (King George Island, Antarctica). *Acta Parasitologica*, 59 (4): 767-772 <http://dx.doi.org/10.2478/s11686-014-0301-8>
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- MCKENNA ABBOTT, L. & CAIRA, J.N. (2014):** Morphology meets molecules: A new genus and two new species of diphylloidean cestodes from the Yellowspotted Skate, *Leucoraja wallacei*, from South Africa. *Journal of Parasitology*, 100 (3): 323-330 <http://dx.doi.org/10.1645/13-414.1>
- MENORET, A. & IVANOV, V.A. (2014):** Eutetrarhynchid trypanorhynchs (Cestoda) from elasmobranchs off Argentina, including the description of *Dollfusiella taminii* sp n. and *Parachristianella damiani* sp n., and amended description of *Dollfusiella vooremi* (Sao Clemente et Gomes, 1989). *Folia Parasitologica*, 61 (5): 411-431 <http://dx.doi.org/10.14411/fp.2014.056>
- MOGHADAM, M. & MERAJI MASOULEH HASELI, M. (2014):** *Halysioncum kishiense* sp n. and *Echinobothrium parsadrayaiense* sp n. (Cestoda: Diphylloidea) from the banded eagle ray, *Aetomylaeus* cf. *nichofii* off the Iranian coast of the Persian Gulf. *Folia Parasitologica*, 61 (2): 133-140 <http://dx.doi.org/10.14411/fp.2014.019>
- MOJICA, K.R. & JENSEN, K. & CAIRA, J.N. (2014):** The Ocellated Eagle Ray, *Aetobatus ocellatus* (Myliobatiformes: Myliobatidae), from Borneo and Northern Australia as Host of Four New Species of *Hornellobothrium* (Cestoda: Lecanicephalidea). *Journal of Parasitology*, 100 (4): 504-515 <http://dx.doi.org/10.1645/13-411.1>
- NAVARRO, J. & ALBO-PUIGSERVER, M. & COLL, M. & SAEZ, R. & FORERO, M.G. & KUTCHA, R. (2014):** Isotopic discrimination of stable isotopes of nitrogen ($\delta^{15}\text{N}$) and carbon ($\delta^{13}\text{C}$) in a host-specific holocephalan tapeworm. *Journal of Helminthology*, 88 (3): 371-375 <http://dx.doi.org/10.1017/S0022149X13000126>
- OTA, Y. (2014):** Three new gnathiid species with larvae ectoparasitic on coastal sharks from southwestern Japan (Crustacea: Isopoda). *Zootaxa*, 3857 (4): 478-500

- PICKERING, M. & CAIRA, J.N. (2014):** Seasonal dynamics of the cestode fauna in spiny dogfish, *Squalus acanthias* (Squaliformes: Squalidae). *Parasitology*, 141 (7): 940-947
<http://dx.doi.org/10.1017/S0031182013002229>
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- REES, D.J. & NOEVER, C. & HØEG, J.T. & OMMUNDSEN, A. & GLENNER, H. (2014):** On the Origin of a Novel Parasitic-Feeding Mode within Suspension-Feeding Barnacles. *Current Biology*, 24 (12): 1429-1434 <http://dx.doi.org/10.1016/j.cub.2014.05.030>
- ROCHA, S. & CASAL, G. & AL-QURAI SHY, S. & AZEVEDO, C. (2014):** Morphological and ultrastructural redescription of *Chloromyxum leydigi* Mingazzini, 1890 (Myxozoa: Myxosporidia), type species of the genus, infecting the gall bladder of the marine cartilaginous fish *Torpedo marmorata* Risso (Chondrichthyes: Torpedinidae), from the Portuguese Atlantic coast. *Folia Parasitologica*, 61 (1): 1-10 <http://dx.doi.org/10.14411/fp.2014.006>
- SCHAEFFNER, B.C. (2014):** Review of the genus *Eutetrarhynchus* Pintner, 1913 (Trypanorhyncha: Eutetrarhynchidae), with the description of *Eutetrarhynchus beveridgei* n. sp. *Systematic Parasitology*, 87 (3): 219-229 <http://dx.doi.org/10.1007/s11230-014-9476-5>
- SCHAEFFNER, B.C. & BEVERIDGE, I. (2014):** The trypanorhynch cestode fauna of Borneo. *Zootaxa*, 3900 (1): 021-049 <http://dx.doi.org/10.11646/zootaxa.3900.1.2>
- SMALES, L.R. (2014):** *Micracanthorhynchina* and *serrantis* (Acanthocephala: Rhadinorhynchidae) from Australian fishes, with the description of a new species. *Transactions of the Royal Society of South Australia*, 138: 92-97
- WEAVER, H.J. & SMALES, L.R. (2014):** Two Species of Acanthocephala (Rhadinorhynchidae and Transvenidae) from Elasmobranchs from Australia. *Comparative Parasitology*, 81 (1): 110-113
<http://dx.doi.org/10.1654/4654.1>

3.3.2 Species Descriptions: Parasites of Elasmobranchs

CAIRA, J.N. & JENSEN, K. & WAESCHENBACH, A. & LITTLEWOOD, D.T.J. (2014): An enigmatic new tapeworm, *Litobothrium aenigmaticum*, sp. nov. (Platyhelminthes : Cestoda: Litobothriidea), from the pelagic thresher shark with comments on development of known *Litobothrium* species. *Invertebrate Systematics*, 28 (3): 231-243

New species: *Litobothrium aenigmaticum*

Abstract: An enigmatic new tapeworm is described from pelagic thresher sharks in Mexico and Taiwan. While 18S rRNA (D1-D3) data robustly place it in the Litobothriidea, it bears essentially no morphological resemblance to other members of the order. Instead it superficially resembles the freshwater fish-inhabiting Caryophyllidea. Its scolex consists of a simple dome-shaped scolex proper and an extensive cephalic peduncle housing four distinct tissue types. It is hyperapolytic, thus reproductive anatomy is unknown. Developmental data show typical litobothriideans bear basic elements of their adult scolex upon entering the definitive host, undermining the notion that the new cestode represents a distinct litobothriidean life cycle stage. Scanning electron microscopy revealed the new species shares bands of distinctive microtriches with its congeners. In combination these data justify establishment of *Litobothrium aenigmaticum*, sp. nov.; the generic, familial and ordinal diagnoses are emended accordingly. Unlike typical litobothriideans, each worm is associated with a mucosal expansion at its attachment site, like those seen in some caryophyllideans. This pathological change may represent a worm-induced host response serving to reinforce attachment of the simple scolex to the mucosa. If so, the convergence of this litobothriidean on a morphology like that seen in the distantly related Caryophyllidea is a result of similarity in mode of attachment.

CAIRA, J.N. & JENSEN, K. & WAESCHENBACH, A. & OLSON, P.D. & LITTLEWOOD, D.T.J. (2014): Orders out of chaos - molecular phylogenetics reveals the complexity of shark and stingray tapeworm relationships. *International Journal for Parasitology*, 44 (1): 55-73

New order: Onchoproteocephalidea, Phyllobothriidea

Abstract: Novel molecular data are presented to resolve the long-standing issue of the non-monophyly of the elasmobranch-hosted tapeworm order Tetracystida relative to the other acetabulate eucestode orders. Bayesian inference analyses of various combinations of full ssrDNA, and full or partial lsrDNA (D1-D3), sequence data, which included 134 species representing 97 genera across the 15 eucestode orders, were conducted. New ssrDNA data were generated for 82 species, partial lsrDNA data for 53 species, and full lsrDNA data for 29 species. The monophyly of each of the elasmobranch-hosted orders Cathetocephalidae, Litobothriidae, Lecanicephalidae and Rhinebothriidae was confirmed, as was the non-monophyly of the Tetracystida. Two relatively stable groups of tetracystid taxa emerged and are hereby designated as new orders. The Onchoproteocephalidae n. ord. is established to recognise the integrated nature of one undescribed and 10 described genera of hook-bearing tetracystids, previously placed in the family Onchobothriidae, with the members of the order Proteocephalidae. The Phyllobothriidae n. ord. is established for a subset of 12 non-hooked genera characterised by scoleces bearing four bothridia each with an anterior accessory sucker; most parasitise sharks and have been assigned to the Phyllobothriidae at one time or another. Tentative ordinal placements are suggested for eight additional genera; placements for the remaining tetracystid genera have not yet emerged. We propose that these 17 genera remain in the "Tetracystida". Among these, particularly labile across analyses were Anthobothrium, Megalonchos, Carpobothrium, Calliobothrium and Caulobothrium. The unique association of Chimaerocestus with holocephalans, rather than with elasmobranchs, appears to represent a host-switching event. Both of the non-elasmobranch hosted clades of acetabulate cestodes (i.e. Proteocephalidae and Cyclophyllidae and their kin) appear to have had their origins with elasmobranch cestodes. Across analyses, the sister group to the clade of "terrestrial" cestode orders was found to be an elasmobranch-hosted genus, as was the sister to the freshwater fish- and tetrapod-hosted Proteocephalidae. Whilst further data are required to resolve outstanding nomenclatural and phylogenetic issues, the present analyses contribute significantly to an understanding of the evolutionary radiation of the entire Cestoda. Clearly, elasmobranch tapeworms comprise the backbone of cestode phylogeny.

CIELOCHA, J.J. & JENSEN, K. & CAIRA, J.N. (2014) *Floriparicapitus*, a New Genus of Lecanicephalidean Tapeworm (Cestoda) from Sawfishes (Pristidae) and Guitarfishes (Rhinobatidae) in the Indo-West Pacific. *Journal of Parasitology*, 100 (4): 485-499 <http://dx.doi.org/10.1645/13-468.1>

New genus: *Floriparicapitus*

New species: *Floriparicapitus euzeti*, *Floriparicapitus juliani*, *Floriparicapitus plicatilis*

Abstract: *Floriparicapitus* n. gen. (Cestoda: Lecanicephalidae), with *Floriparicapitus euzeti* n. gen., n. sp. as its type, is erected to house 3 new tapeworm species and 2 known species that are transferred to the new genus, all parasitizing sawfishes and guitarfishes (order Rhinopristiformes) in Indo-Pacific waters. The new genus differs from the 21 valid lecanicephalidean genera in its possession of a large scolex bearing a laterally expanded apical organ in the form of a rugose sheet in combination with a cirrus conspicuously armed with spiniriches and 3 pairs of excretory vessels. It most closely resembles Lecanicephalum, but differs conspicuously in its possession of 3, rather than 1, pair of excretory vessels. Two new species are described from sawfishes: *Floriparicapitus euzeti* n. sp., from *Pristis clavata* and *Floriparicapitus juliani* n. sp. from *Pristis pristis*, both from Australia. *Floriparicapitus plicatilis* n. sp. is described from the guitarfish *Glaucostegus typus* in Australia and the guitarfish *Glaucostegus thouin* in Malaysian Borneo. Two species formerly assigned to *Cephalobothrium* are transferred to the new genus; *Floriparicapitus variabilis* (Southwell, 1911) n. comb. from the sawfish *Anoxypristis cuspidata* in Sri Lanka and *Floriparicapitus rhinobatidis* (Subhapradha, 1955) n. comb. from the guitarfish *Glaucostegus granulatus* in India. The species from guitarfish differ conspicuously from those parasitizing sawfish in their possession of only 4 (*F. plicatilis* n. sp.) or 5 (*F. rhinobatidis* n. comb.) testes per proglottid versus 9 or more in the 3 sawfish-parasitizing species. The latter 3 species differ from one another in scolex width, acetabular size, number of proglottids, and cirrus sac size. As it stands, the new genus appears to be restricted to a subclade of the Rhinopristiformes consisting of the sawfishes and species of *Glaucostegus*.

IRIGOITIA, M.M. & CANTATORE, D.M.P. & DELPIANI, G.E. & INCORVAIA, I.S. & LANFRANCHI, A.L. & TIMI, J.T. (2014): *Merizocotyle euzeti* sp n. (Monogenea: Monocotylidae) from the nasal tissue

of three deep sea skates (Rajidae) in the southwestern Atlantic Ocean. *Folia Parasitologica*, 61 (3): 206-212

New species: *Merizocotyle euzeti*

Abstract: A new species of *Merizocotyle* Cerfontaine, 1894 (Monogenea: Monocotylidae) is described from the nasal tissues of three deep sea rajid skates: the southern thorny skate, *Amblyraja doellojuradoi* (Pozzi), broadnose skate, *Bathyraja brachyurops* (Fowler), and yellownose skate, *Zearaja chilensis* (Guichenot), collected off Buenos Aires Province, Argentina, southwest Atlantic Ocean. Two additional species of sympatric rajid, the white-dotted skate, *Bathyraja albomaculata* (Norman), and the Patagonian skate, *Bathyraja macloviana* (Norman), were also examined but no merizocotyline were found. The taxonomy of the Merizocotylineae is not widely accepted and, as a result, the status of *Thaumatocotyle* and *Mycteronastes*, and their proposed synonymy with *Merizocotyle* are currently under discussion. The new species differs from its congeners by having a unique haptor structure, 6 peripheral loculi that are asymmetrically arranged (one much smaller, indistinctly located in the left or right side of the haptor). The presence of the new species in three sympatric species of Rajidae belonging to distinct genera and subfamilies, as well as its absence in sympatric congeners indicates the lack of phylogenetic host specificity. Host ecology and geographical distribution appear to be more important than host phylogeny in determining the distribution of this parasite across potential hosts in the region. This constitutes the first record of *Merizocotyle* in the southwestern Atlantic Ocean.

JENSEN, K. & MOJICA, K.R. & CAIRA, J.N. (2014): A new genus and two new species of lecanicephalidean tapeworms from the striped panray, *Zanobatus schoenleinii* (Rhinopristiformes: Zanobatidae), off Senegal. *Folia Parasitologica*, 61 (5): 432-440

New genus: *Zanobatocestus*

New species: *Zanobatocestus minor*, *Zanobatocestus major*

Abstract: Recognised for their diversity in apical structure morphology, members of the cestode order Lecanicephalidea Wardle et McLeod, 1952 known to date exhibit relatively mundane and uniform acetabular morphology. A new lecanicephalidean genus, *Zanobatocestus* gen. n., is proposed for two new species found parasitising the spiral intestine of the striped panray, *Zanobatus schoenleinii* (Muller et Henle), off Senegal that are highly unusual in acetabular morphology. Unlike the members of the 21 recognised lecanicephalidean genera, which possess simple, uniloculate suckers or bothridia, *Zanobatocestus minor* sp. n. and *Z. major* sp. n. possess biloculate bothridia. The form of their apical structures and cocoons readily distinguish the two new species from one another. *Zanobatocestus minor* sp. n. exhibits an apical modification of the scolex proper that is narrow and elongated, an apical organ that is small and internal, and eggs in cocoons forming linear strands, whereas *Z. major* sp. n. exhibits an apical modification of the scolex proper that is wide and short, an apical organ that is extensive and primarily external, and eggs in cocoons primarily as doublets with bipolar filaments. Given the typically high host specificity of lecanicephalidean cestodes, as parasites of the only genus and species currently considered valid in the family Zanobatidae, *Zanobatocestus* gen. n. is likely to remain one of the less speciose lecanicephalidean genera.

JENSEN, K. & RUSSELL, S.L. (2014): *Seussapex*, a new genus of lecanicephalidean tapeworm (Platyhelminthes: Cestoda) from the stingray genus *Himantura* (Myliobatiformes: Dasyatidae) in the Indo-West Pacific with investigation of mode of attachment. *Folia Parasitologica*, 61 (3): 231-241

New genus: *Seussapex*

Abstract: A new lecanicephalidean genus, *Seussapex* gen. n., is erected for specimens collected from stingrays from the Indo-West Pacific resembling the little known species *Tenia* [sic] *narinari* MacCallum, 1917 from the spotted eagle ray, *Aetobatus narinari* (Euphrasen). Members of this new genus are unique in their possession of a multi-tiered apical structure comprising a bipartite apical modification of the scolex proper, and an externally bipartite apical organ with anterior and posterior glandular compartments internally. The appearance of the scolex varies dramatically depending on state of protrusion and/or evagination of these different parts which appear to be able to function independently. *Seussapex karybares* sp. n. parasitizing *Himantura uarnak* 2 (sensu Naylor et al., 2012) in northern Australia is described as the type species and *Tenia* [sic] *narinari* is transferred to

the new genus. The two species differ in scolex length and width of the posterior dome-shaped portion of the apical organ. Histological sections of scoleces stained using the periodic acid-Schiff (PAS) reaction showed the surface of the anterior part of the apical organ and the anterior glandular compartment to stain PAS positive, suggesting a chemical mode of attachment to the host's intestinal mucosal surface. Extensive collecting efforts of stingrays in the Indo-West Pacific shows *Seussapex* gen. n. to be restricted to species of *Himantura* Mullet et Henle and suggests additional diversity in this group of hosts. In addition, the host identity of *Seussapex narinari* (MacCallum, 1917) comb. n. is called into question.

KURASHIMA, A. & SHIMIZU, T. & MANO, N. & OGAWA, K. & FUJITA, T. (2014): A new combination and a new species of onchobothriid tapeworm (Cestoda: Tetraphyllidea: Onchobothriidae) from triakid sharks. *Systematic Parasitology*, 88 (1): 75-83 <http://dx.doi.org/10.1007/s11230-014-9486-3>

New species: *Calliobothrium shirozame*

Abstract: A new combination and a new species of onchobothriid tapeworm are described from triakid sharks. We found *Platybothrium xiamenensis* Wang & Yang, 2001 and *Erudituncus musteli* (Yamaguti, 1952) from *Hemitriakis japonica* (Muller & Henle). Based on the morphology of the hooks *P. xiamenensis* is transferred to the genus *Erudituncus* Healy, Scholz & Caira, 2001. The specimens studied by us differ from the original description in the number of proglottids and testes and in the size of the cirrus-sac. However, we consider them conspecific with *E. xiamenensis* due to the consistent hook morphology and laciniations in both descriptions and believe the differences reflect intraspecific variation. The type-host of *E. xiamenensis* was reported as *Mustelus griseus* Pietschmann. However, in the present study, this parasite was found only in *H. japonica* and never in *M. griseus* although many specimens of the latter host were examined. This suggests that the type-host in the original description has probably been misidentified. We found another undescribed species in *M. griseus*, *Calliobothrium shirozame* n. sp., which is distinguished from the congeners by having a unique combination of the number of laciniations: four in the cephalic peduncle, six in the immature proglottids and four in the mature proglottids.

McKENNA ABBOTT, L. & CAIRA, J.N. (2014): Morphology meets molecules: A new genus and two new species of diphyllidean cestodes from the Yellowspotted Skate, *Leucoraja wallacei*, from South Africa. *Journal of Parasitology*, 100 (3): 323-330

New genus: *Andocadoncum*

New species: *Echinobothrium marquesi*, *Andocadoncum meganae*

Abstract: Two morphologically disparate undescribed species of diphyllidean cestodes from the Yellowspotted skate, *Leucoraja wallacei*, from South Africa were included in a recent molecular phylogenetic study aimed at revising diphyllidean classification. From a molecular standpoint, these species were determined to be only distantly related to one another. One (originally referred to as *Echinobothrium* n. sp. 2) showed affinities with species of the batoid-parasitizing *Echinobothrium* sensu stricto and is described here as *Echinobothrium marquesi* n. sp. This species most closely resembles *Echinobothrium joshuai*, an affinity supported by the previous molecular study, but differs in the form of its "B" hooks and degree of overlap between bothria and cephalic peduncle. The other species (originally referred to as New genus n. sp. 1), although exhibiting the full complement of scolex armature, grouped among primarily shark-hosted genera, most of which lack or exhibit reduced scolex armatures. That unexpected result suggested that erection of a novel genus might be warranted, but morphological grounds supporting the action were not apparent at that time. The present study aimed to explore the morphology of this taxon in more detail. Light and scanning electron microscopy revealed this taxon to be exceptional in that its lateral hooklets, which are arranged in 2 clusters like those of *Echinobothrium* and *Coronocestus*, are unique in being arranged in anterior and posterior rows, rather than in a single row. *Andocadoncum* n. gen. is erected, with *Andocadoncum meganae* n. sp. as its type, to accommodate this taxon. A minor adjustment to the existing hook formula by presenting counts for the anterior hooklets (a) separately from the posterior hooklets (b) readily accommodates this new form. *Leucoraja wallacei* is distinctive among skates in hosting 2 different genera of diphyllideans. In the context of the previous molecular phylogenetic analyses, it appears that the presence of *Andocadoncum* n. gen. in this skate species may be the

result of a host-switching event involving a weakly or unarmed shark-hosted taxon moving to a batoid—a shift that was likely accompanied by a return to the fully armed condition seen, for example, in other batoid-parasitizing members of the order.

MENORET, A. & IVANOV, V.A. (2014): Eutetrarhynchid trypanorhynchs (Cestoda) from elasmobranchs off Argentina, including the description of *Dollfusiella taminii* sp. n. and *Parachristianella damiani* sp. n., and amended description of *Dollfusiella vooremi* (Sao Clemente et Gomes, 1989). *Folia Parasitologica*, 61 (5): 411-431

New species: *Dollfusiella taminii*, *Parachristianella damiani*

Abstract: During a parasitological survey of teleosts and elasmobranchs in the Argentine Sea, 3 species of eutetrarhynchids were collected from the batoids *Myliobatis goodei* Garman and *Psammobatis bergi* Marini, and the shark *Mustelus schmitti* Springer. The specimens collected from *Mu. schmitti* were identified as *Dollfusiella vooremi* (Sao Clemente et Gomes, 1989), whereas the specimens from *My. goodei* and *Ps. bergi* resulted in new species of *Dollfusiella* Campbell et Beveridge, 1994 and *Parachristianella* Dollfus, 1946, respectively. *Dollfusiella taminii* sp. n. from *Ps. bergi* is characterised by a distinct basal armature with basal swelling and a heteroacanthous homeomorphous metabasal armature with 7-9 falcate hooks per principal row. *Parachristianella damiani* sp. n. from *My goodei* lacks a distinct basal armature, having 2-3 initial rows of uncinat hooks, a heteroacanthous heteromorphous metabasal armature with the first principal row of small hooks, followed by rows with 10-14 large hooks. This is the first record of *Parachristianella* in the southwestern Atlantic. The amended description of *D. vooremi* includes the detailed description of the tentacular armature, including SEM micrographs of all tentacular surfaces. This species is characterised by a basal armature consisting of rows of uncinat and falcate hooks, a basal swelling and a metabasal armature with billhooks on the antiothrial surface and uncinat hooks on the bothrial surface. The scolex peduncle of *D. vooremi* is covered with enlarged spinitriches. This species is restricted to carcharhiniform sharks, since the report of *D. vooremi* in *Sympterygia bonapartii* Muller et Henle off Bahia Blanca (Argentina) is dubious.

MOGHADAM, M. & MERAJI MASOULEH HASELI, M. (2014): *Halysioncum kishiense* sp. n. and *Echinobothrium parsadrayaiense* sp. n. (Cestoda: Diphyllidea) from the banded eagle ray, *Aetomylaeus cf. nichofii* off the Iranian coast of the Persian Gulf. *Folia Parasitologica*, 61 (2): 133-140 <http://dx.doi.org/10.14411/fp.2014.019>

New species: *Halysioncum kishiense*, *Echinobothrium parsadrayaiense*

Abstract: Two new species of two genera of the order Diphyllidea van Beneden in Cams, 1863, *Halysioncum* Caira, Marques, Jensen, Kuchta et Ivanov, 2013 and *Echinobothrium* van Beneden, 1849 sensu stricto are described from *Aetomylaeus cf. nichofii* (Bloch et Schneider) off the Iranian coast of the Persian Gulf. *Halysioncum kishiense* sp. n. differs from all other congeners in the number of apical hooks with the exception of *H. hoffmanorum* (Tyler, 2001) and *H. pigmentatum* (Ostrowski de Niifiez, 1971). *Halysioncum kishiense* sp. n. can be easily differentiated from *H. hoffmanorum* and *H. pigmentatum* by the number of hooklets and testis numbers. *Echinobothrium parsadrayaiense* sp. n. is differentiated from all its congeners except for *E. acanthinophyllum* Rees, 1961 by its hook formula. The number of spines per column on the cephalic peduncle, the number of testes and possession of a thickwalled rather than thin-walled vagina distinguish *E. parsadrayaiense* sp. n. from *E. acanthinophyllum*. To date, with these two new species, five species of Diphyllidea have been reported from the Persian Gulf.

MOJICA, K.R. & JENSEN, K. & CAIRA, J.N. (2014) The Ocellated Eagle Ray, *Aetobatus ocellatus* (Myliobatiformes: Myliobatidae), from Borneo and Northern Australia as Host of Four New Species of Hornellobothrium (Cestoda: Lecaniccephalidea). *Journal of Parasitology*, 100 (4): 504-515 <http://dx.doi.org/10.1645/13-411.1>

New species: *Hornellobothrium gerdaae*, *Hornellobothrium iotakotta*, *Hornellobothrium kolossakotta*, *Hornellobothrium najaforme*

Abstract: Four new species are described in the lecanicephalidean genus *Hornellobothrium* from the ocellated eagle ray, *Aetobatus ocellatus*, from Australia and Indonesian Borneo. The species possess flat, laterally expanded immature proglottids and a small internal, glandular apical organ diagnostic of the genus. To date, only 2 valid species are recognized in the genus: *Hornellobothrium cobraformis* Shipley & Hornell, 1906, from "*Aetobatus narinari*" from Sri Lanka, and *Hornellobothrium extensivum* Jensen, 2005, from *A. ocellatus*, also from Australia. The new species differ from *H. cobraformis* in the shape of the apical organ and mature proglottids, and from *H. extensivum* in testes number and scolex dimensions. The new species can be distinguished from one another based on the following combination of features: *Hornellobothrium gerdaae* n. sp. possesses testes arranged in 2 layers and lacks post-ovarian vitelline follicles; *Hornellobothrium iotakotta* n. sp. has a single column of 4 testes and lacks spiniform microtriches on the distal bothridial surface; both *Hornellobothrium kolossakotta* n. sp. and *Hornellobothrium najaforme* n. sp. possess a single column of 6 testes, but *H. najaforme* n. sp. is a longer worm with a greater number of laterally expanded immature proglottids. Host associations suggest this genus is potentially limited to *A. ocellatus*. While reports of up to 9 lecanicephalidean congeners in a single host species exist, they are considered dubious and in need of verification, mainly because of host identification issues. This study demonstrates the presence of at least 5 species of *Hornellobothrium* in *A. ocellatus*. Insufficient sampling of this host species across the Indo-Pacific and at each locality may account for the apparent restricted distribution of species of *Hornellobothrium*.

OTA, Y. (2014) Three new gnathiid species with larvae ectoparasitic on coastal sharks from southwestern Japan (Crustacea: Isopoda). *Zootaxa*, 3857 (4): 478-500

New species: *Gnathia albipalpebrata*, *Gnathia parvirostrata*, *Gnathia dejimagi*

Abstract: Gnathiid larvae were collected from the gill chambers of coastal sharks in southwestern Japan. Some were reared in a laboratory aquarium and successfully metamorphosed into adults. Morphological observations of the adult males identified three undescribed species, which are designated *Gnathia albipalpebrata* n. sp., *G. parvirostrata* n. sp., and *G. dejimagi* n. sp. on the basis of their larval morphologies and pigmentation patterns.

SCHAEFFNER, B.C. (2014): Review of the genus *Eutetrarhynchus* Pintner, 1913 (Trypanorhyncha: Eutetrarhynchidae), with the description of *Eutetrarhynchus beveridgei* n. sp. *Systematic Parasitology*, 87 (3): 219-229

New species: *Eutetrarhynchus beveridgei*

Abstract: The genus *Eutetrarhynchus* Pintner, 1913 is revised. *Eutetrarhynchus beveridgei* n. sp. is described from the spiral intestine of the dwarf whipray, *Himantura walga* (Müller & Henle) (Myliobatiformes: Dasyatidae), from the South China Sea off the Malaysian part of Borneo. The new species is characterised by a slender, elongate scolex, two oval bothria, muscular bulbs, retractor muscles inserting at the base of the bulbs, and the presence of gland-cells and prebulbar organs. The tentacular armature is typical heteroacanthous with heteromorphous hooks. *Eutetrarhynchus beveridgei* n. sp. is allocated to the genus due to its distinct segment morphology featuring two internal seminal vesicles and scattered testes occupying the complete intervascular space. It differs from congeners in its relatively small size, much smaller scolex regions and in the presence of a basal armature with a distinct basal swelling. *Eutetrarhynchus cortezensis* Friggens & Duszynski, 2005 is transferred to *Dollfusiella* Campbell & Beveridge, 1994, as *D. cortezensis* n. comb., on the basis of its segment morphology, with testes in a linear arrangement and the absence of internal seminal vesicles. A new generic diagnosis and a key for the identification of species of *Eutetrarhynchus* is provided.

3.4 Distribution

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