

A diverse Miocene fish assemblage (Chondrichthyes and Osteichthyes) from the Pécs-Danitzpuszta sand pit (Mecsek Mts, Hungary)

SZABÓ, Márton^{1,2}, KOCIS, László³, BOSNAKOFF, Mariann⁴, SEBE, Krisztina¹

¹University of Pécs, Department of Geology and Meteorology, 7634 Pécs, Ifjúság útja 6., Hungary; szabo.marton.pieces@gmail.com, sebe@gamma.ttk.pte.hu

²Hungarian Natural History Museum, Department of Paleontology and Geology, 1083 Budapest, Ludovika tér 2., Hungary

³Universiti Brunei Darussalam (UBD), Geology Group, Faculty of Science, Brunei; laszlo.kocis@hotmail.com, laszlo.kocis@ubd.edu.bn

⁴Vik 1 Mydral, Iceland; bosnakoff@yahoo.com

Taxon	Closest modern taxon and/or taxon with similar ecology based on tooth morphology and/or geographical distribution	Salinity preference			Biogeography			Habitat					References (italics: reference for extinct taxa; bold: reference for extant taxa)
		Saltwater	Brackish	Freshwater	Tropical / subtropical	Temperate	Cold	Littoral / neritic	Pelagic	Bathyal	Benthonic/ demersal	Reef-associated	
Chondrichthyes													
Hexanchidae	† <i>Notorynchus primigenius</i>	<i>Notorynchus cepedianus</i>	+				+		+			+	<i>Cappetta, 2012</i> ; Compagno et al., 2005 ; <i>Reinecke et al., 2014</i> ; <i>Schultz, 2003</i>
Squatinae	<i>Squatina</i> sp.	<i>Squatina</i> spp.	+			+	+		+			+	Compagno et al., 2005 ; Stevens & Last, 1998
Odontaspidae	Odontaspidae indet.	<i>Carcharias taurus</i>	+			+	+		+	+			<i>Compagno, 2002</i> ; Compagno et al., 2001, 2005 ; <i>Reinecke et al., 2014</i> ; <i>Schultz, 2003</i>
Lamnidae	† <i>Cosmopolitodus hastalis</i>	<i>Isurus</i> spp.	+			+	+		+				Compagno et al., 2005 ; <i>Reinecke et al., 2011, 2014</i>
	<i>Isurus oxyrinchus</i>	<i>Isurus oxyrinchus</i>	+			+	+		+	+			Compagno et al., 2005 ; <i>Reinecke et al., 2014</i>
Otodontidae	† <i>Otodus (Megaselachus) megalodon</i>	<i>Carcharodon carcharias</i>	+			+	+	+	+	+			Brown et al., 2010 ; Compagno et al., 2005 ; Nasby-Lucas et al., 2009 ; <i>Pimiento et al., 2010</i> ; <i>Reinecke et al., 2011</i>
Alopiidae	† <i>Alopias exigua</i>	<i>Alopias</i> spp.	+			+	+		+	+			Compagno et al., 2005 ; <i>Reinecke et al., 2014</i>
	† <i>Anotodus retroflexus</i>		+			+	+		+	+			
Hemipristidae	† <i>Hemipristis serra</i>	<i>Hemipristis elongatus</i>	+			+			+				Compagno, 1984 ; Compagno et al., 2005
Carcharhinidae	† <i>Carcharhinus priscus</i>	<i>Carcharhinus brachyurus</i> , <i>C. perezi</i>	+			+	+		+	+			Compagno, 1984 ; Compagno et al., 2005 ; <i>Reinecke et al., 2014</i> ; <i>Schultz, 2003</i>
	† <i>Galeocerdo aduncus</i>	<i>Galeocerdo cuvier</i>	+			+	+		+	+			
Sphyrnidae	† <i>Sphyrna laevisissima</i>	<i>Sphyrna zygaena</i>	+			+	+		+	+			Compagno, 1984 ; Compagno et al., 2005 ; <i>Reinecke et al., 2011</i> ; <i>Schultz, 2003</i>
Dasyatidae	Dasyatidae indet.	<i>Dasyatis</i> spp.	+			+	+		+			+	<i>Cappetta, 2012</i> ; Last et al., 2016
Aetobatidae	† <i>Aetobatus arcuatus</i>	<i>Aetobatus</i> spp.	+			+			+			+	<i>Schultz, 2003</i> ; Last et al., 2016
Myliobatidae	<i>Aetomylaeus</i> sp.	<i>Aetomylaeus</i> spp.	+	(+)		+			+			+	Froese & Pauly, 2019
	<i>Myliobatis</i> sp.	<i>Myliobatis</i> spp.	+	(+)		+	+		+			+	<i>Schultz, 2003</i> ; Last et al., 2016 ; Froese & Pauly, 2019
Rhinopterae	† <i>Rhinoptera</i> cf. <i>schultzi</i>	<i>Rhinoptera</i> spp.	+			+			+			+	<i>Schultz, 2003</i> ; Froese & Pauly, 2019
Osteichthyes													
Acipenseridae	Acipenseridae indet.	Acipenseridae spp.			+		+	+				+	Nelson, 1984 ; Nelson et al., 2016 ; Froese & Pauly, 2019
Carangidae	Carangidae indet.	Carangidae spp.	+	(+)		+			+	+			Nelson, 2006 ; Nelson et al., 2016 ; Froese & Pauly, 2019
Sphyrnaeidae	<i>Sphyrna</i> sp.	<i>Sphyrna</i> spp.	+			+			+	+			<i>Gottfried et al., 2017</i> ; Nelson, 2006 ; <i>Schultz, 2003</i>
Scombridae	cf. <i>Thunnus</i> sp.	Scombridae spp.	+			+				+			Nelson et al., 2016 ; Froese & Pauly, 2019
	Scombridae indet.		+			+				+			
Labridae	† <i>Labradon</i> sp.	<i>Labrus</i> spp.	+			+	+		+			+	Choat & Bellwood, 1991, 1998 ; Westneat & Alfaro, 2005
	† <i>Trigonodon jugleri</i>	<i>Sparisoma</i> spp.	+			+			+			+	<i>Schultz & Bellwood, 2004</i> ; <i>Hidden, 2001</i>
Scaridae	<i>Calotomus</i> sp.	<i>Calotomus</i> spp.	+			+						+	Mundy, 2005 ; Froese & Pauly, 2019
Latidae	<i>Lates</i> sp.	<i>Lates niloticus</i>		(+)	+	+						+	Riede, 2004 ; Froese & Pauly, 2019
Sciaenidae	Sciaenidae indet.	<i>Sciaenops ocellatus</i>	+	(+)		+						+	Froese & Pauly, 2019
Sparidae	<i>Diplodus</i> sp.	<i>Diplodus</i> spp.	+			+	+		+				<i>Hidden, 2001</i> ; <i>Schultz, 2003</i> ; Froese & Pauly, 2019
	<i>Pagrus cinctus</i>	<i>Pagrus</i> spp.	+	(+)		+			+			+	Froese & Pauly, 2019
	† <i>Sparus umbonatus</i>	<i>Sparus aurata</i>	+	(+)		+	+		+			+	<i>Hidden, 2001</i> ; Day, 2002 ; <i>Schultz, 2003</i> ; Froese & Pauly, 2019
Tetraodontiformes indet.	Tetraodontiformes indet.	Tetraodontiformes spp.	+			+	+		+	+		+	Carnevale & Tyler, 2015 ; <i>Hidden, 2001</i> ; Nelson, 2006