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## A preliminary assessment of *Fistularia petimba* (Lacepède, 1803) migration in the Mediterranean Sea: historical and new data from Cyprus (Levantine Sea) with biological notes

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**Table S1.** Morphometric measurements (mm) and weight (g) of 76 *F. petimba* specimens collected between 2020 and 2021. TL= Total Length; SD= Standard deviation.

Measurement	Male (n = 35)				Female (n = 41)				Combined sexes (n = 76)			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
TL (including trail filament)	547.5	46.6	446.0	652.0	595.1	49.5	422.0	704.0	573.2	53.1	422.0	704.0
TL (excluding tail filament)	398.0	34.2	323.0	472.0	436.9	38.8	306.0	535.0	419.0	41.1	306.0	535.0
Standard length	378.5	33.5	304.0	449.0	416.0	36.6	293.0	510.0	398.7	39.5	293.0	510.0
Fork length	390.2	34.1	317.0	463.0	426.1	37.9	297.0	519.0	409.6	40.0	297.0	519.0
Head length	145.3	12.2	121.0	174.0	159.5	13.0	113.0	190.0	152.9	14.3	113.0	190.0
Snout length	114.3	9.5	94.0	136.0	125.5	10.3	89.0	151.0	120.4	11.2	89.0	151.0
Eye diameter	10.0	2.5	1.8	13.5	10.7	2.1	7.3	17.8	10.4	2.3	1.8	17.8
Post-orbital length	19.9	2.4	15.0	24.5	21.2	2.5	13.2	28.9	20.6	2.5	13.2	28.9
Maxilla length	15.7	4.6	1.3	26.7	20.1	4.9	7.8	27.7	18.0	5.2	1.3	27.7
Gape height	9.5	2.7	5.8	16.8	10.1	2.4	6.0	17.2	9.8	2.5	5.8	17.2
Gape width	11.8	3.0	4.5	21.5	12.6	3.5	5.2	19.9	12.2	3.2	4.5	21.5
Pectoral fin length	15.6	2.9	5.0	19.6	17.3	2.1	11.5	22.2	16.5	2.6	5.0	22.2
Pectoral fin height	6.6	1.2	2.7	9.2	7.6	1.2	5.6	11.1	7.1	1.3	2.7	11.1
Pelvic fin length	8.3	1.2	5.7	10.2	28.8	128.9	6.1	834.0	19.4	94.1	5.7	834.0
Pelvic fin height	2.6	0.5	1.4	3.8	2.8	0.6	1.8	4.7	2.7	0.5	1.4	4.7
Dorsal fin length	16.3	3.2	11.3	21.8	17.9	3.5	11.3	27.5	17.2	3.4	11.3	27.5
Dorsal fin height	18.6	4.0	5.9	24.5	18.6	4.7	5.1	26.9	18.6	4.3	5.1	26.9
Anal length	15.8	2.9	11.0	22.1	17.4	3.1	11.6	24.4	16.7	3.1	11.0	24.4
Anal fin height	17.9	4.0	6.5	23.1	18.5	3.9	11.0	25.3	18.2	3.9	6.5	25.3
Caudal fin length	16.4	3.6	9.3	23.1	19.3	3.1	11.7	23.8	18.0	3.6	9.3	23.8
Caudal fin height	13.7	10.4	2.8	33.8	9.8	8.9	2.5	32.5	11.6	9.7	2.5	33.8
Pre-pectoral length	148.1	12.8	121.0	177.0	163.3	13.7	115.0	199.0	156.3	15.2	115.0	199.0
Pre-pelvic length	194.1	20.1	147.0	238.0	220.9	29.3	153.0	339.0	208.5	28.5	147.0	339.0
Pre-dorsal length	314.7	29.6	255.0	376.0	348.8	30.1	246.0	423.0	333.1	34.0	246.0	423.0
Pre-anal length	314.7	29.6	254.0	376.0	347.9	29.1	246.0	422.0	332.6	33.3	246.0	422.0
Total weight	28.1	8.7	12.3	42.8	43.6	14.6	9.7	97.8	36.5	14.3	9.7	97.8

**Table S2.** Meristic characters of 76 *F. petimba* specimens collected between 2020 and 2021. SD = Standard deviation.

Meristic characters	Mean	SD	Min	Max
Dorsal-fin rays	14.34211	0.551377	14	16
Anal-fin rays	14.05263	0.223297	14	15
Pectoral-fin rays	14.48684	0.549962	14	16
Pelvic-fin rays	6	0	6	6
Branchiostegal rays	7	0	7	7
Bony plates	74	0	74	74

**Table S3.** Simple linear regressions and one-way ANOVA tests of four different log-transformed length measurements with log-transformed total weight. R squared ( $r^2$ ), intercept ( $a$ ) and slope ( $b$ ) values of linear regression models and confidence intervals ( $CI$ ; lower, upper) at 95%,  $F$  and  $p$  values of ANOVA tests.

log Total length including tail filament (mm) ~ log Total weight (g)							
Sex	$r^2$	$a$	$CI_a$	$b$	$CI_b$	$F$ value	$p$ value
Male	0.878	-4.6726	-5.4799, -3.8673	3.5210	3.0568, 3.9851	238.2032	1.18E-16
Female	0.819	-4.4739	-5.4011, -3.5466	3.4313	2.9085, 3.9541	176.2151	4.78E-16
Combined sexes	0.872	-4.9556	-5.5310, -4.3801	3.6940	3.3665, 4.0216	505.0277	8.64E-35
log Total length excluding tail filament (mm) ~ log Total weight (g)							
Sex	$r^2$	$a$	$CI_a$	$b$	$CI_b$	$F$ value	$p$ value
Male	0.828	-3.9619	-4.8353, -3.0885	3.3810	2.8346, 3.9272	158.5466	3.77E-14
Female	0.842	-3.7982	-4.5578, -3.0385	3.3004	2.8369, 3.7638	207.4781	3.35E-17
Combined sexes	0.870	-4.1583	-4.6679, -3.6484	3.5127	3.1983, 3.8271	459.5279	1.59E-34
log Standard length (mm) ~ log Total weight (g)							
Sex	$r^2$	$a$	$CI_a$	$b$	$CI_b$	$F$ value	$p$ value
Male	0.825	-3.7156	-4.5573, -2.8740	3.2717	2.7380, 3.8055	155.5191	4.91E-14
Female	0.881	-3.925	-4.584, -3.2660	3.4222	3.0148, 3.8295	288.7847	1.26E-19
Combined sexes	0.886	-3.086	-4.5525, -3.6200	3.5150	3.2235, 3.8066	577.0828	1.12E-36
log Fork length (mm) ~ log Total weight (g)							
Sex	$r^2$	$a$	$CI_a$	$b$	$CI_b$	$F$ value	$p$ value
Male	0.849	-3.9034	-4.7014, -3.1054	3.3626	2.8607, 3.8644	185.8283	4.14E-15
Female	0.880	-3.8771	-4.5340, -3.2202	3.3709	2.9675, 3.7744	285.6167	1.53E-19
Combined sexes	0.889	-4.2115	-4.6813, -3.7418	3.5673	3.2757, 3.8589	594.0696	4.3E-37

**Table S4.** Number of studies from the western to eastern Mediterranean Sea where the *Fistularia petimba* has been recorded with information on coordinates, date, depth, method and number of individuals captured.

No.	Country	Latitude	Longitude	Date captured	Depth (m) captured	Method captured	No. of individuals captured	Reference
1	Spain	36°27'18.35"N	4°42'12.14"W	23/06/1996	50	Gillnet	1	Cárdenas <i>et al.</i> , 1997
2	Turkey	40°25'1.02"N	28° 5'2.40"E	11/06/2021	32	Trammel net	1	Crocetta <i>et al.</i> , 2021
3	Greece	37°42'23.70"N	26°42'31.62"E	07/11/2021	20	Trammel net	1	Crocetta <i>et al.</i> , 2021
4	Tukey	36°51'28.38"N	27°53'47.62"E	17/11/2019	65	Bottom trawl	4	Cerim <i>et al.</i> , 2021
5	Tukey	36°51'28.4"N	27°53'47.6"E	19/10/2019	15 – 20	Longline	1	Cerim <i>et al.</i> , 2021
6	Turkey	36°47'36.80"N	31°12'33.00"E	28/10/2016	35 – 43	Bottom trawl	1	Ünlüoğlu <i>et al.</i> , 2018
7	Turkey	36°44'14.70"N	31°26'3.70"E	26/11/2016	30	Bottom trawl	1	Ünlüoğlu <i>et al.</i> , 2018
8	Turkey	36° 3'42.72"N	32°32'3.24"E	09/01/2018	70	Bottom trawl	2	Karan <i>et al.</i> , 2019
9	Turkey	36° 7'23.30"N	33°28'4.60"E	05/10/2018	150	Bottom trawl	2	Çiftçi <i>et al.</i> , 2019
10	Turkey	36° 7'43.80"N	33°31'14.40"E	22/11/2017	95	Bottom trawl	1	Karan <i>et al.</i> , 2019
11	Turkey	36°39'15.84"N	36°11'10.26"E	21/05/2017	35 – 38	Bottom-trawl	2	Ünlüoğlu <i>et al.</i> , 2018
12	Syrian	35°31'5.97"N	35°42'48.57"E	29/07/2019	45	Gillnet	1	Hussein <i>et al.</i> , 2019
13	Syrian	35°31'5.97"N	35°42'48.57"E	29/09/2019	45	Gillnet	2	Ibrahim <i>et al.</i> , 2020
14	Syrian	35°14'35.11"N	35°55'12.00"E	24/09/2019	30	Gillnet	1	Ibrahim <i>et al.</i> , 2020
15	Lebanon	34°24'36.00"N	35°46'12.00"E	15/11/2017	N/A	Gillnet	1	Crocetta <i>et al.</i> , 2021
16	Israel	31°48'50.22"N	34°27'34.98"E	12/11/2016	80	Bottom trawl	1	Stern <i>et al.</i> , 2017
17	Cyprus	35° 3'39.00"N	34° 3'15.78"E	08/08/2021	86	Bottom trawl	4	Current study
18	Cyprus	34°55'26.76"N	33°54'28.98"E	24/07/2020	79	Bottom trawl	11	Current study
19	Cyprus	34°57'52.20"N	33°43'34.14"E	15/07/2020	48	Bottom trawl	1	Current study
20	Cyprus	34°45'34.62"N	33°28'50.34"E	16/07/2020	33	Bottom trawl	1	Current study
21	Cyprus	34°45'3.30"N	33°28'51.36"E	08/08/2021	55	Bottom trawl	7	Current study
22	Cyprus	34°45'19.50"N	33°27'53.70"E	08/08/2021	33	Bottom trawl	2	Current study
23	Cyprus	34°44'50.52"N	33°27'48.24"E	14/07/2020	55	Bottom trawl	3	Current study
24	Cyprus	34°41'57.60"N	33°18'42.54"E	13/09/2021	13	Trammel net	1	Current study
25	Cyprus	34°41'32.16"N	33°10'0.30"E	08/08/2021	56	Bottom trawl	1	Current study
26	Cyprus	34°41'38.34"N	33° 8'8.04"E	04/08/2021	44	Bottom trawl	26	Current study
27	Cyprus	34°38'8.58"N	32°38'18.66"E	27/03/2021	46	Bottom trawl	10	Current study
28	Cyprus	34°39'40.68"N	32°28'7.14"E	27/03/2021	93	Bottom trawl	4	Current study

*Continued*

*Table S4 continued*

No.	Country	Latitude	Longitude	Date captured	Depth (m) captured	Method captured	No. of individuals captured	Reference
29	Cyprus	35° 4'54.24"N	32°27'31.32"E	24/07/2020	43	Bottom trawl	5	Current study
30	Cyprus	35° 6'36.00"N	32°29'24.00"E	26/09/2019	55	Gillnet	1	Dragičević <i>et al.</i> , 2019
31	Egypt	Collected between El-Hamam and Sidi Kirayr. Location indicated on the map is an approximation.	09/03/2019	40 – 60	Bottom trawl	1	Ragheb, 2022	