

Table S2. Paired test showing difference in fin area measurements between fish

Number of families	1				
Number of comparisons per family	153				
Alpha	0.05				
<b>Bonferroni's multiple comparisons test</b>	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
fish1 vs. fish2	24541	-1088 to 50170	No	ns	0.0814
fish1 vs. fish3	73567	47939 to 99196	Yes	****	<0.0001
fish1 vs. fish4	26963	1335 to 52592	Yes	*	0.0272
fish1 vs. fish5	5594	-20035 to 31223	No	ns	>0.9999
fish1 vs. fish6	-7001	-32630 to 18627	No	ns	>0.9999
fish1 vs. fish7	-41825	-67454 to -16196	Yes	****	<0.0001
fish1 vs. fish8	21920	-3708 to 47549	No	ns	0.2559
fish1 vs. fish9	79659	54030 to 105287	Yes	****	<0.0001
fish1 vs. fish10	59109	33481 to 84738	Yes	****	<0.0001
fish1 vs. fish11	-10255	-35884 to 15373	No	ns	>0.9999
fish1 vs. fish12	22056	-3573 to 47685	No	ns	0.2415
fish1 vs. fish13	-5222	-30851 to 20406	No	ns	>0.9999
fish1 vs. fish14	-13142	-38771 to 12486	No	ns	>0.9999
fish1 vs. fish15	51174	25546 to 76803	Yes	****	<0.0001
fish1 vs. fish16	-24858	-50486 to 770.8	No	ns	0.0707
fish1 vs. fish17	35317	9688 to 60945	Yes	***	0.0005
fish1 vs. fish18	75263	49634 to 100891	Yes	****	<0.0001
fish2 vs. fish3	49026	23398 to 74655	Yes	****	<0.0001
fish2 vs. fish4	2422	-23206 to 28051	No	ns	>0.9999
fish2 vs. fish5	-18947	-44576 to 6682	No	ns	0.8799
fish2 vs. fish6	-31542	-57171 to -5914	Yes	**	0.0032
fish2 vs. fish7	-66366	-91995 to -40737	Yes	****	<0.0001
fish2 vs. fish8	-2621	-28249 to 23008	No	ns	>0.9999
fish2 vs. fish9	55118	29489 to 80746	Yes	****	<0.0001
fish2 vs. fish10	34568	8940 to 60197	Yes	***	0.0008
fish2 vs. fish11	-34796	-60425 to -9168	Yes	***	0.0007
fish2 vs. fish12	-2485	-28114 to 23144	No	ns	>0.9999
fish2 vs. fish13	-29763	-55392 to -4135	Yes	**	0.0074
fish2 vs. fish14	-37683	-63312 to -12055	Yes	***	0.0002
fish2 vs. fish15	26633	1005 to 52262	Yes	*	0.0317
fish2 vs. fish16	-49399	-75027 to -23770	Yes	****	<0.0001
fish2 vs. fish17	10776	-14853 to 36404	No	ns	>0.9999
fish2 vs. fish18	50722	25093 to 76350	Yes	****	<0.0001
fish3 vs. fish4	-46604	-72233 to -20975	Yes	****	<0.0001
fish3 vs. fish5	-67973	-93602 to -42345	Yes	****	<0.0001
fish3 vs. fish6	-80569	-106197 to -54940	Yes	****	<0.0001

fish3 vs. fish7	-115392	-141021 to -89764	Yes	****	<0.0001
fish3 vs. fish8	-51647	-77276 to -26018	Yes	****	<0.0001
fish3 vs. fish9	6091	-19537 to 31720	No	ns	>0.9999
fish3 vs. fish10	-14458	-40087 to 11171	No	ns	>0.9999
fish3 vs. fish11	-83823	-109451 to -58194	Yes	****	<0.0001
fish3 vs. fish12	-51511	-77140 to -25883	Yes	****	<0.0001
fish3 vs. fish13	-78790	-104418 to -53161	Yes	****	<0.0001
fish3 vs. fish14	-86710	-112338 to -61081	Yes	****	<0.0001
fish3 vs. fish15	-22393	-48022 to 3236	No	ns	0.2089
fish3 vs. fish16	-98425	-124054 to -72796	Yes	****	<0.0001
fish3 vs. fish17	-38251	-63879 to -12622	Yes	***	0.0001
fish3 vs. fish18	1695	-23933 to 27324	No	ns	>0.9999
fish4 vs. fish5	-21369	-46998 to 4259	No	ns	0.3236
fish4 vs. fish6	-33965	-59593 to -8336	Yes	**	0.0010
fish4 vs. fish7	-68788	-94417 to -43160	Yes	****	<0.0001
fish4 vs. fish8	-5043	-30672 to 20586	No	ns	>0.9999
fish4 vs. fish9	52695	27067 to 78324	Yes	****	<0.0001
fish4 vs. fish10	32146	6517 to 57775	Yes	**	0.0024
fish4 vs. fish11	-37219	-62847 to -11590	Yes	***	0.0002
fish4 vs. fish12	-4907	-30536 to 20721	No	ns	>0.9999
fish4 vs. fish13	-32186	-57814 to -6557	Yes	**	0.0024
fish4 vs. fish14	-40106	-65734 to -14477	Yes	****	<0.0001
fish4 vs. fish15	24211	-1418 to 49840	No	ns	0.0943
fish4 vs. fish16	-51821	-77450 to -26192	Yes	****	<0.0001
fish4 vs. fish17	8353	-17275 to 33982	No	ns	>0.9999
fish4 vs. fish18	48299	22671 to 73928	Yes	****	<0.0001
fish5 vs. fish6	-12595	-38224 to 13033	No	ns	>0.9999
fish5 vs. fish7	-47419	-73048 to -21790	Yes	****	<0.0001
fish5 vs. fish8	16326	-9302 to 41955	No	ns	>0.9999
fish5 vs. fish9	74065	48436 to 99693	Yes	****	<0.0001
fish5 vs. fish10	53515	27887 to 79144	Yes	****	<0.0001
fish5 vs. fish11	-15849	-41478 to 9779	No	ns	>0.9999
fish5 vs. fish12	16462	-9167 to 42091	No	ns	>0.9999
fish5 vs. fish13	-10816	-36445 to 14812	No	ns	>0.9999
fish5 vs. fish14	-18736	-44365 to 6892	No	ns	0.9574
fish5 vs. fish15	45580	19952 to 71209	Yes	****	<0.0001
fish5 vs. fish16	-30452	-56080 to -4823	Yes	**	0.0054
fish5 vs. fish17	29723	4094 to 55351	Yes	**	0.0076
fish5 vs. fish18	69669	44040 to 95297	Yes	****	<0.0001
fish6 vs. fish7	-34824	-60452 to -9195	Yes	***	0.0007
fish6 vs. fish8	28922	3293 to 54550	Yes	*	0.0110
fish6 vs. fish9	86660	61031 to 112289	Yes	****	<0.0001
fish6 vs. fish10	66111	40482 to 91739	Yes	****	<0.0001

fish6 vs. fish11	-3254	-28883 to 22375	No	ns	>0.9999
fish6 vs. fish12	29057	3429 to 54686	Yes	*	0.0104
fish6 vs. fish13	1779	-23850 to 27408	No	ns	>0.9999
fish6 vs. fish14	-6141	-31770 to 19488	No	ns	>0.9999
fish6 vs. fish15	58176	32547 to 83804	Yes	****	<0.0001
fish6 vs. fish16	-17856	-43485 to 7772	No	ns	>0.9999
fish6 vs. fish17	42318	16689 to 67947	Yes	****	<0.0001
fish6 vs. fish18	82264	56635 to 107893	Yes	****	<0.0001
fish7 vs. fish8	63745	38117 to 89374	Yes	****	<0.0001
fish7 vs. fish9	121484	95855 to 147112	Yes	****	<0.0001
fish7 vs. fish10	100934	75306 to 126563	Yes	****	<0.0001
fish7 vs. fish11	31570	5941 to 57198	Yes	**	0.0032
fish7 vs. fish12	63881	38252 to 89510	Yes	****	<0.0001
fish7 vs. fish13	36603	10974 to 62231	Yes	***	0.0003
fish7 vs. fish14	28683	3054 to 54311	Yes	*	0.0123
fish7 vs. fish15	92999	67371 to 118628	Yes	****	<0.0001
fish7 vs. fish16	16967	-8661 to 42596	No	ns	>0.9999
fish7 vs. fish17	77142	51513 to 102770	Yes	****	<0.0001
fish7 vs. fish18	117088	91459 to 142716	Yes	****	<0.0001
fish8 vs. fish9	57738	32110 to 83367	Yes	****	<0.0001
fish8 vs. fish10	37189	11560 to 62818	Yes	***	0.0002
fish8 vs. fish11	-32176	-57804 to -6547	Yes	**	0.0024
fish8 vs. fish12	135.7	-25493 to 25764	No	ns	>0.9999
fish8 vs. fish13	-27143	-52771 to -1514	Yes	*	0.0251
fish8 vs. fish14	-35063	-60691 to -9434	Yes	***	0.0006
fish8 vs. fish15	29254	3625 to 54883	Yes	**	0.0094
fish8 vs. fish16	-46778	-72407 to -21149	Yes	****	<0.0001
fish8 vs. fish17	13396	-12232 to 39025	No	ns	>0.9999
fish8 vs. fish18	53342	27714 to 78971	Yes	****	<0.0001
fish9 vs. fish10	-20549	-46178 to 5079	No	ns	0.4566
fish9 vs. fish11	-89914	-115543 to -64285	Yes	****	<0.0001
fish9 vs. fish12	-57603	-83231 to -31974	Yes	****	<0.0001
fish9 vs. fish13	-84881	-110510 to -59252	Yes	****	<0.0001
fish9 vs. fish14	-92801	-118430 to -67172	Yes	****	<0.0001
fish9 vs. fish15	-28484	-54113 to -2856	Yes	*	0.0135
fish9 vs. fish16	-104516	-130145 to -78888	Yes	****	<0.0001
fish9 vs. fish17	-44342	-69971 to -18713	Yes	****	<0.0001
fish9 vs. fish18	-4396	-30025 to 21233	No	ns	>0.9999
fish10 vs. fish11	-69365	-94993 to -43736	Yes	****	<0.0001
fish10 vs. fish12	-37053	-62682 to -11425	Yes	***	0.0002
fish10 vs. fish13	-64332	-89960 to -38703	Yes	****	<0.0001
fish10 vs. fish14	-72252	-97880 to -46623	Yes	****	<0.0001
fish10 vs. fish15	-7935	-33564 to 17694	No	ns	>0.9999

fish10 vs. fish16	-83967	-109596 to -58338	Yes	****	<0.0001
fish10 vs. fish17	-23793	-49421 to 1836	No	ns	0.1135
fish10 vs. fish18	16153	-9475 to 41782	No	ns	>0.9999
fish11 vs. fish12	32311	6683 to 57940	Yes	**	0.0022
fish11 vs. fish13	5033	-20596 to 30662	No	ns	>0.9999
fish11 vs. fish14	-2887	-28516 to 22742	No	ns	>0.9999
fish11 vs. fish15	61430	35801 to 87058	Yes	****	<0.0001
fish11 vs. fish16	-14602	-40231 to 11026	No	ns	>0.9999
fish11 vs. fish17	45572	19943 to 71201	Yes	****	<0.0001
fish11 vs. fish18	85518	59889 to 111147	Yes	****	<0.0001
fish12 vs. fish13	-27278	-52907 to -1650	Yes	*	0.0236
fish12 vs. fish14	-35198	-60827 to -9570	Yes	***	0.0006
fish12 vs. fish15	29118	3490 to 54747	Yes	*	0.0101
fish12 vs. fish16	-46914	-72542 to -21285	Yes	****	<0.0001
fish12 vs. fish17	13261	-12368 to 38889	No	ns	>0.9999
fish12 vs. fish18	53207	27578 to 78835	Yes	****	<0.0001
fish13 vs. fish14	-7920	-33549 to 17709	No	ns	>0.9999
fish13 vs. fish15	56397	30768 to 82025	Yes	****	<0.0001
fish13 vs. fish16	-19635	-45264 to 5993	No	ns	0.6658
fish13 vs. fish17	40539	14910 to 66168	Yes	****	<0.0001
fish13 vs. fish18	80485	54856 to 106114	Yes	****	<0.0001
fish14 vs. fish15	64317	38688 to 89945	Yes	****	<0.0001
fish14 vs. fish16	-11715	-37344 to 13913	No	ns	>0.9999
fish14 vs. fish17	48459	22830 to 74088	Yes	****	<0.0001
fish14 vs. fish18	88405	62776 to 114034	Yes	****	<0.0001
fish15 vs. fish16	-76032	-101661 to -50403	Yes	****	<0.0001
fish15 vs. fish17	-15858	-41486 to 9771	No	ns	>0.9999
fish15 vs. fish18	24088	-1540 to 49717	No	ns	0.0996
fish16 vs. fish17	60174	34546 to 85803	Yes	****	<0.0001
fish16 vs. fish18	100120	74492 to 125749	Yes	****	<0.0001
fish17 vs. fish18	39946	14317 to 65575	Yes	****	<0.0001