

Trophic niches determined from fatty acid profiles of sympatric coral reef mesopredators

Stacy L. Bierwagen*, Heidi Pethybridge, Michelle R. Heupel, Andrew Chin, Colin A. Simpfendorfer

*Corresponding author: stacy.bierwagen@my.jcu.edu.au

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Figure S1: Linear regressions of muscle tissue comparison of traditional (x-axis) and direct (y-axis) methods for essential fatty acids. Symbols are unique species categories. Grey area are smoothed confidence intervals.

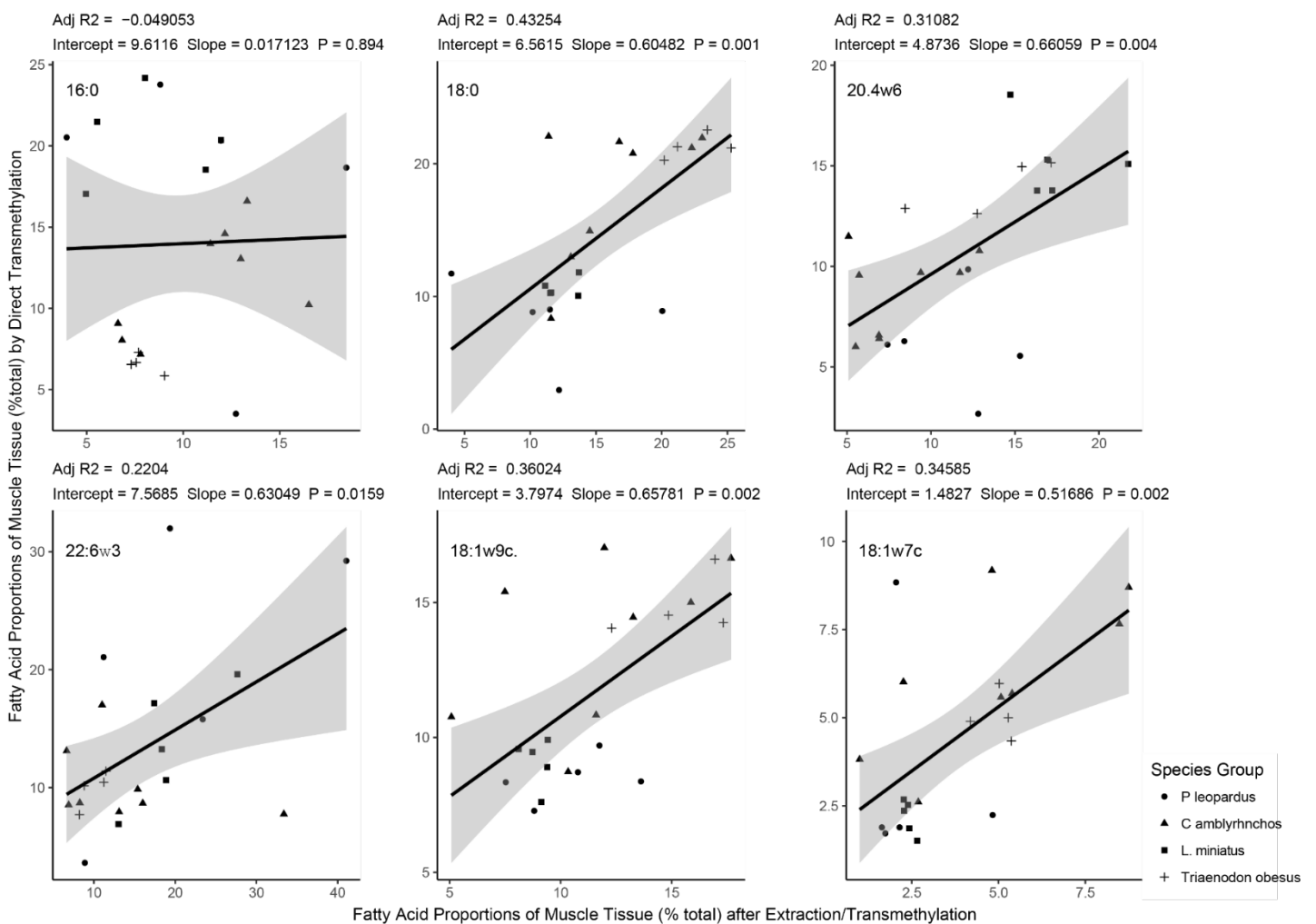


Figure S2: Linear regressions of blood plasma comparison of traditional (x-axis) and direct (y-axis) methods for essential fatty acids. Symbols are unique species categories. Grey area are smoothed confidence intervals.

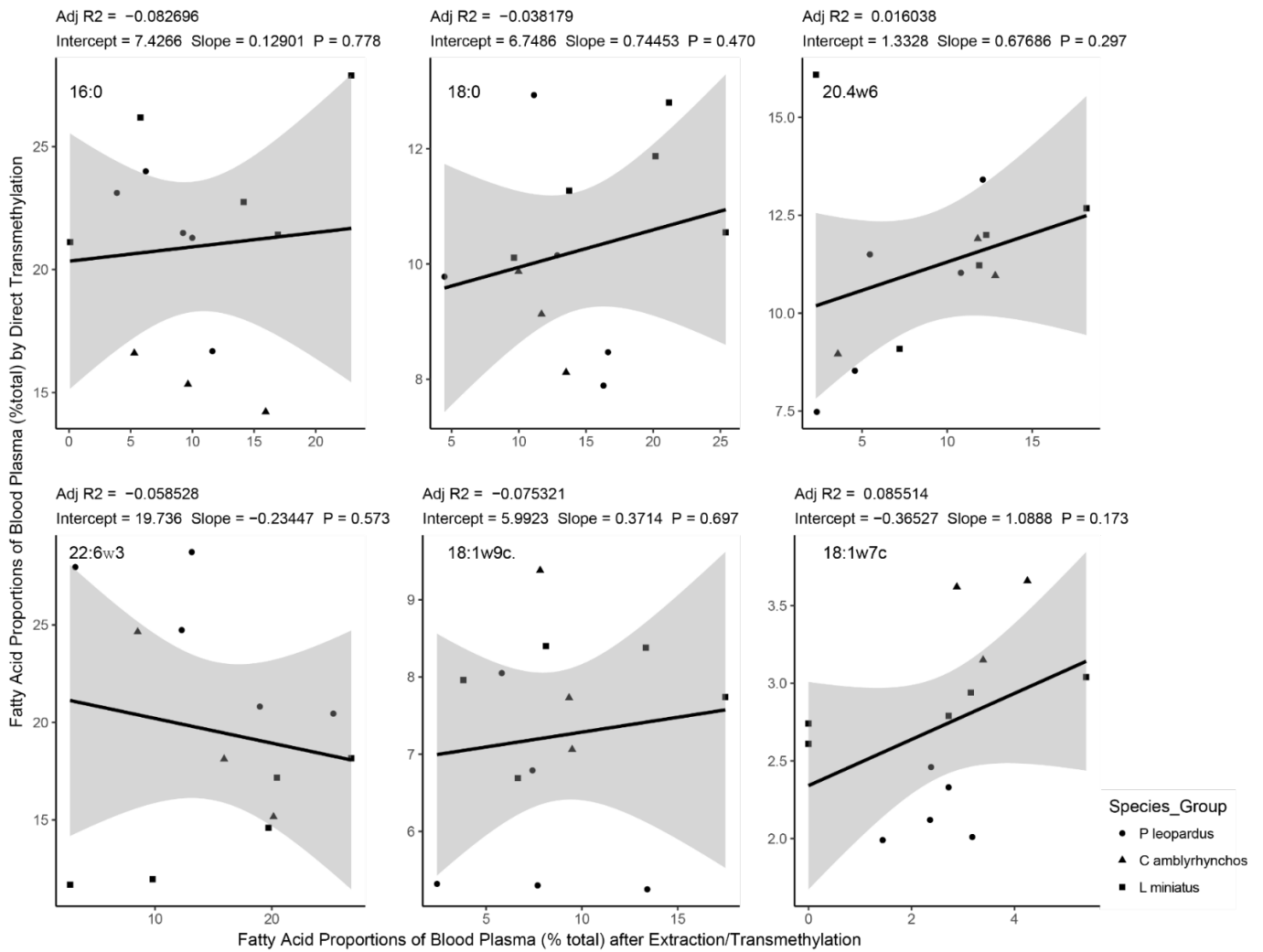


Table S1: Additional species sampled that were not included in the analysis

	Passionfruit coral trout	Spangled emperor	Spanish mackerel	Blue-stripe snapper	Blacktip reef shark	Yellow spotted trevally	
	<i>P. aerolatus</i>	<i>L. nebulosus</i>	<i>S. commerson</i>	<i>L. kasmira</i>	<i>C. melanopterus</i>	<i>C. fulvoguttatus</i>	
	<i>n=1</i>	<i>n=3</i>	<i>n=2</i>	<i>n=1</i>	<i>n=1</i>	<i>n=2</i>	
	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Plasma
14:0	0.46±0	0.8±1.07	0.38±0.16	0.42±0	0.24±0	3.41±2.46	2.79±0.43
15:0	0.59±0	1.04±0.87	0.45±0.08	0.41±0	0.4±0	1.04±0.83	0.83±0.42
16:0	17.23±0	19.65±5.02	20.06±0.52	17.28±0	22.89±0	34.73±1.45	13.54±5.9
16:0(FALD)	2.03±0	0.44±0.3	0.74±0.09	1.07±0	0.64±0	0.81±0.61	0.71±0.33
17:0	1.06±0	1.53±0.77	1.08±0.19	0.8±0	0.79±0	1.54±0.84	1.6±0.58
18:0	10±0	10.1±0.56	10.68±1.19	10.14±0	10.2±0	13.42±0.35	13.58±0.31
19:0	0.4±0	0.45±0.11	0.36±0.03	0.34±0	0.26±0	0.65±0.16	0.42±0.18
20:0	0.14±0	0.36±0.23	0.2±0.02	0.14±0	0.2±0	0.69±0.19	0.41±0.4
22:0	1.93±0	1.07±0.57	1.3±0.43	1.13±0	1±0	1.45±0.74	1.42±0.04
24:0	0.38±0	0.36±0.15	0.28±0.11	0.31±0	0.25±0	0.42±0.09	0.36±0.23
16:1ω7c	1.14±0	3.18±1.89	2.07±0.47	1.5±0	1.95±0	5.26±2.78	8.27±8.68
17:1ω8c+a17:0	0.84±0	1.18±0.63	0.69±0.27	0.59±0	0.54±0	0.52±0.07	0.66±0.49
18:1ω7	1.28±0	2.5±0.9	1.82±0.11	1.72±0	1.63±0	3.11±0.61	3.8±2.57
18:1ω9	8.84±0	10.53±1.13	9.01±0.3	9.16±0	10.26±0	13.06±4.91	7.07±2.86
20:1ω9	0.09±0	0.42±0.18	0.26±0.19	0.07±0	0.23±0	0.51±0.05	0.71±0.68
24:1ω11	1.93±0	1.07±0.57	1.3±0.43	1.13±0	1±0	1.45±0.74	1.42±0.04
16:4	0±0	0.03±0.05	0±0	0±0	0±0	0±0	0.03±0.04
17:1	0.87±0	1.06±0.82	0.83±0.12	0.59±0	0.73±0	0.24±0.12	0.07±0.1
18:2ω6	1.23±0	1.5±0.55	2.06±0.16	1.1±0	2.13±0	0.69±0.16	1.35±0.99
20:2ω6	0.25±0	0.43±0.17	0.37±0.12	0.23±0	0.26±0	0.18±0.02	0.28±0.18
18:3ω3	0.26±0	0.88±0.7	1.06±0.1	0.2±0	0.83±0	0.2±0.21	0.55±0.42
20:4ω3	0.44±0	0.51±0.2	0.63±0.08	0.39±0	0.5±0	0.27±0.22	0.36±0.12
20:3ω6	0.47±0	0.51±0.2	0.82±0.27	0.51±0	0.7±0	0.19±0.11	0.18±0.08
20:4ω6	14.73±0	10.86±5.75	9.75±5.58	12.75±0	17.02±0	1.27±0.49	3.22±0.49
20:5ω3	1.96±0	2.96±1.05	3.58±0.94	3.38±0	3.8±0	1.49±0.67	4.95±0.91
20:1ω11c	0.17±0	0.79±0.73	0.52±0.2	0.22±0	0.27±0	0.05±0.07	0.25±0.06
22:1ω7	0.36±0	0.23±0.14	0.26±0.16	0.17±0	0.19±0	0.14±0.04	0.17±0.06
22:1ω9	0.1±0	0.08±0.02	0.07±0.07	0.03±0	0±0	0.06±0.08	0.21±0.19
22:4ω6	4.61±0	3.42±1.81	3.01±0.85	3.37±0	3.65±0	0.33±0.11	1.94±1.51
22:5ω3	2.6±0	3.41±0.89	3.15±0.48	3.76±0	2.72±0	0.9±0.16	4.39±3.2
22:5ω6	4.18±0	2.17±1.32	2.73±0.46	3.43±0	1.83±0	1.02±0.52	1.49±0.25
22:6ω3	19.42±0	13.39±7.79	19.43±4.91	22.82±0	12.48±0	10.28±4.5	21.02±12.83
24:1ω7	0±0	0±0.01	0±0	0.03±0	0.02±0	0±0	0.01±0.01
i17:0	0.27±0	0.48±0.24	0.3±0.1	0.3±0	0.21±0	0.28±0.13	0.29±0.13
ΣSFA	30.51±6.08	34.75±6.7	33.76±7	30.08±6.15	35.49±7.82	56.32±11.46	33.88±5.61
ΣMUFA	15.87±1.81	21.73±2.19	17.12±1.85	15.59±1.87	16.7±2.1	24.57±2.83	23.5±2.21
ΣPUFA	50.38±5.98	40.66±4.11	47.15±5.26	52.14±6.44	46.24±5.09	16.98±2.65	40.59±5.46
ΣIso-SFA	0.38±0.13	1.03±0.21	0.45±0.14	0.46±0.14	0.21±0.11	0.77±0.1	0.56±0.12
ΣOther	2.86±1.17	1.82±0.21	1.52±0.41	1.73±0.6	1.36±0.33	1.38±0.45	1.48±0.38