

Lawrence Berkeley Laboratory Archives and Records Office	
RECORDS SERIES TITLE Applied Science Division: Scientists' Papers - Papers of William E. Siri	
ACCESSION NO.	434-91-0131
FILE CODE NO.	19-14-18
CARTON NO.	7
FOLDER NAME	Dr. Leo Meyer (Marshall Island Natives)
NOTES	
FOUND BY	Perry Hall

404629

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PRIVACY ACT MATERIAL REMOVED

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Dr Meyer's subjects

5/27/63

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#	Sample	Machine Hole #	CPM <sup>cpm</sup>	Ratio	Efficiency <sup>(relating to 10,400%)</sup> Quench correction	Quench correction	Corrected counts <sup>(corrected to 2cc 10,400%)</sup> CPP-BKQ) RC
32	A	21	10,363 <sup>10,324</sup>	0.76	15.01/10	2.66	27,488
36	B	22	6,746 <sup>6,717</sup>	0.76	15.01	2.66	17,867
338	C	23	6,227 <sup>6,198</sup>	0.76	15.01	2.66	16,487
341	D	24	8,187 <sup>8,158</sup>	0.75	14.97	2.67	21,782
873	E	25	6,170 <sup>6,141</sup>	0.75	14.97	2.67	16,396
881	F	26	8,044 <sup>8,015</sup>	0.75	14.97	2.67	21,400
882	G	27	6,681 <sup>6,652</sup>	0.76	15.01	2.66	17,694
885	H	28	6,213 <sup>6,184</sup>	0.74	14.94	2.68	16,573
895	I	29	8,738 <sup>8,709</sup>	0.73	14.00	2.86	24,908
916	J	30	8,019 <sup>7,990</sup>	0.76	15.01	2.66	21,248
128	K	31	8,737 <sup>8,708</sup>	0.75	14.97	2.67	23,250
322	L	32	6,801 <sup>6,772</sup>	0.75	14.97	2.67	18,081
60	M	33	10,336 <sup>10,307</sup>	0.75	15.01	2.67	27,520
732	N	34	9,875 <sup>9,846</sup>	0.74	14.94	2.67	26,289
138	O	35	11,742 <sup>11,713</sup>	0.74	14.97	2.67	31,114
142	P	36	9,490 <sup>9,461</sup>	0.76	15.01	2.66	25,166
159	Q	37	8,136 <sup>8,107</sup>	0.75	14.97	2.67	21,646
007	R	38	6,253 <sup>6,224</sup>	0.73	14.00	2.86	17,801
043	S	39	10,128 <sup>10,099</sup>	0.74	14.97	2.67	27,032
501	T	40	6,060 <sup>6,031</sup>	0.73	14.00	2.86	17,247
	U	41	1,142 1,323 = 6370 <sup>1,113</sup>	0.72	13.50	2.66	18,855
5KB	V	42	29	-	-	-	-
25,000	W	43	10,540 <sup>10,511</sup>	0.76	15.01	2.66	27,959
15,000	X	109	10,485 <sup>10,456</sup>	0.73	14.00%	2.86	29,904

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\* Section only 0.6cc diluted from urine - so I added 1.4 cc diluted H2O to equate all quenchings - The CPM of 0.6cc H2O should be multiplied by 3.33 to bring it in line  
 \* SAME PPT AS WAS USED TO MAKE UP DOSES.

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int. Std. method

Subject #	Hole #	% Fat cal 2.	wt of fat in Kg	Lean body wt (Kg)	HT cm	WT. Kg	Sex	Age
322		4.89	26.45	28.09			M	16
32		26.38	12.23	34.13			F	24
36		14.25	8.03	48.33			M	30
38		13.64	9.05	57.08			M	30
41		34.74	23.21	43.60			F	30
73		3.63	2.23	59.13			M	44
71		34.63	23.77	44.68			M	30
82		0.35	0.19	54.58			M	29
85		9.31	5.75	56.06			M	23
45		28.48	15.92	39.98			F	33
416		30.03	19.11	44.52			F	39
928		29.89	17.12	40.15			F	50
932		22.54	10.46	35.84			F	28
38		24.87	9.95	30.05			F	24
42		34.59	19.97	37.25			F	48
59		26.70	16.02	43.98			F	14
60		22.35	4.77	33.86			F	11
1007		26.98	14.97	56.39			M	52
1043		13.55	5.66	36.15			F	28
1501		13.95	8.81	54.37			M	30

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Dr. Meyer's samples done with int std / B  
 the std was brought up to 2.2 cc c  
 H<sub>2</sub>O so no water correction was made

	CPM	CPM-Bkg	Sampling + int. std	T-S corrected 1.057	T-S, 0.042	(G) corrected for quenching
A -	832	10,100	10,069	19,056	20,142	10431
B	836	6666	6635	16,048	16,963	17366
C	738	6086	6055	15281	16,152	6237
D	741	8015	7924	17153	18,131	8160
E	873	5968	5937	15298	16,170	6020
F	821	7825	7794	17013	17,982	7934
G	822	6508	6477	15934	16,842	6522
H	825	6134	6103	15274	16,145	6347
I	895	8622	8591	17659	18,666	8900
J	916	7812	7781	16980	17,948	7991
K	928	8556	8525	17565	18,566	8866
L	822	6555	6524	15618	16,508	6824
M	960	10,078	10,047	18951	20,031	10,500
N	932	9638	9607	18640	19,702	9934
O	938	11,535	11,504	20,481	21,648	11,838
P	942	9283	9252	18446	19,497	9428
Q	959	7886	7855	17024	17,994	8091
R	1007	6106	6075	15250	16,119	6312
S	1043	9997	9966	19429	20,536	9846
T	1501	5937	5906	12548	13,263	7326
U		1958 (x3.33)	6417	11504	12,160	10,202
V	Bkg	31	31	28		
W*	std	19,425	19,425	9,847	10,408	
X	std			10,351		
N	std			10,440		

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\* same pit as used to prepare patient dose  
 brought up to 2.2cc H<sub>2</sub>O c det 1-60

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(2) Dr. Meyer's patients Int std method

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Subject #	Ratio Std cty - Drs subject's - Drs	Ratio $\times 2.5 \times 10^4$	TBW in L	L $\times 0.985$ L mounted to Kg	% H <sub>2</sub> O Kg H <sub>2</sub> O Kg body wt	wet % Fat $100 - \frac{\% H_2O}{0.72}$
222	1.505	38,125	38.12 L	37.55	68.84	95.11
32	0.998	24,950		24.58	53.01	73.62
36	1.413	35,325		34.80	61.74	85.75
38	1.669	41,725		41.10	62.15	86.31
41	1.275	31,875		31.40	46.99	65.26
73	1.727	43,225		42.58	69.39	96.37
81	1.312	32,800		32.31	47.07	65.37
82	1.516	37,900		39.30	71.75	99.65
85	1.640	41,000		40.38	65.30	90.69
85	1.157	29,225		28.79	51.50	71.52
916	1.302	32,550		32.06	50.38	69.97
28	1.174	29,350		28.91	50.48	70.11
32	1.048	26,200		25.81	55.74	77.41
38	0.379	21,975		21.64	54.10	75.13
42	1.104	27,600		27.19	47.10	65.41
59	1.286	32,150		31.67	52.78	73.32
60	0.990	24,750		24.38	63.11	87.65
1007	1.649	41,225		40.607	56.90	79.02
1043	1.057	26,425		26.03	62.25	86.43
1501	1.590	39,750		39.15	61.96	86.05

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