

1 **Triacylglycerol structure and composition of human milk fat**
2 **substitute affect the absorption of fatty acids and calcium, lipid**
3 **metabolism and bile acid metabolism in newly-weaned Sprague–**
4 **Dawley rats**

5 Lin Zhu ^a, Shuaizhen Fang ^a, Wenwen Liu ^a, Hong Zhang ^b, Yaqiong Zhang ^{a*},
6 Zhuohong Xie ^c, Puyu Yang ^a, Jianchun Wan ^b, Boyan Gao ^a, Liangli (Lucy) Yu ^c

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8 ^a Institute of Food and Nutraceutical Science, School of Agriculture and Biology,
9 Shanghai Jiao Tong University, Shanghai 200240, China

10 ^b Wilmar (Shanghai) Biotechnology Research & Development Center Co. Ltd.,
11 Shanghai 200137, China

12 ^c Department of Nutrition and Food Science, University of Maryland, College Park,
13 Maryland 20742, United States

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18 * To whom correspondence should be addressed:

19 Yaqiong Zhang, Ph. D.

20 Tel.: 021-34204538; E-mail: yqzhang2006@sjtu.edu.cn

Table S1. Fatty acid composition, *sn*-2 palmitic acid content and OPL to OPO ratio in four experimental fats.

	CF	HMFS1	HMFS2	HMFS3
C8:0 (%)	0.52	0.32	0.41	0.28
C10:0 (%)	0.62	0.63	0.63	0.66
C12:0 (%)	3.45	1.68	2.38	2.14
C14:0 (%)	3.09	3.23	3.18	3.39
C16:0 (%)	21.78	22.12	24.08	23.42
C16:1 (%)	0.26	0.37	0.32	0.35
C18:0 (%)	4.70	4.57	4.67	4.82
C18:1 (%)	41.37	42.06	39.45	39.10
C18:2 n-6 (%)	19.23	20.36	19.75	20.81
C18:3 n-3 (%)	3.00	2.05	2.51	2.58
<i>Sn</i> -2 palmitic acid content (%)	15.54	54.36	60.02	57.87
OPL to OPO ratio	0.4	0.3	0.9	1.4

Table S2. The detailed diet formulations.

	CF		HMFS1		HMFS2		HMFS3	
	gm%	kcal%	gm%	kcal%	gm%	kcal%	gm%	kcal%
Protein	22.2	20.3	22.2	20.3	22.2	20.3	22.2	20.3
Carbohydrate	53.3	48.8	53.3	48.8	53.3	48.8	53.3	48.8
Fat	15.0	30.8	15.0	30.8	15.0	30.8	15.0	30.8
Total		100		100		100		100
Ingredient	gm	kcal	gm	kcal	gm	kcal	gm	kcal
Casein	200	800	200	800	200	800	200	800
L-Cystine	3	12	3	12	3	12	3	12
Corn Starch	255	1020	255	1020	255	1020	255	1020
Maltodextrin 10	132	528	132	528	132	528	132	528
Sucrose	91	364	91	364	91	364	91	364
Celluse, BW200	50	0	50	0	50	0	50	0
Fat Sample CF	137	1233						
Fat Sample HMFS1			137	1233				
Fat Sample HMFS2					137	1233		
Fat Sample HMFS3							137	1233
t-Butylhydroquinone	0.0274	0	0.0274	0	0.0274	0	0.0274	0
Mineral	35	0	35	0	35	0	35	0
Vitamin	10	40	10	40	10	40	10	40
Choline Bitartrate	2.5	0	2.5	0	2.5	0	2.5	0