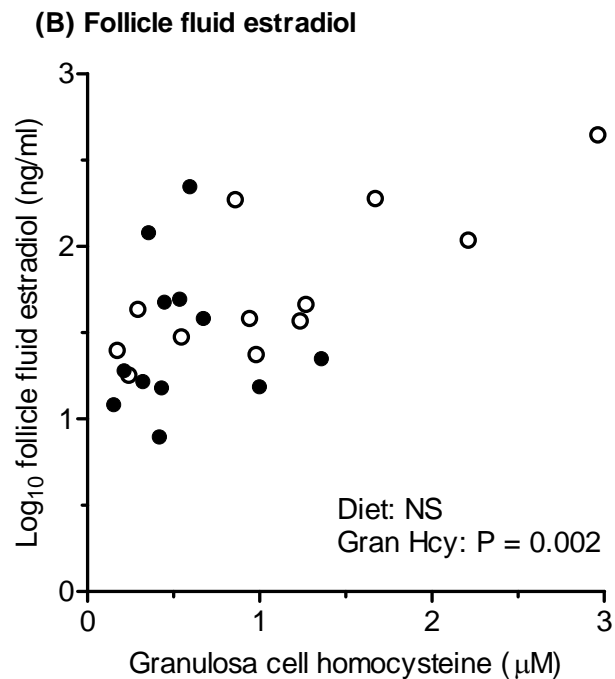
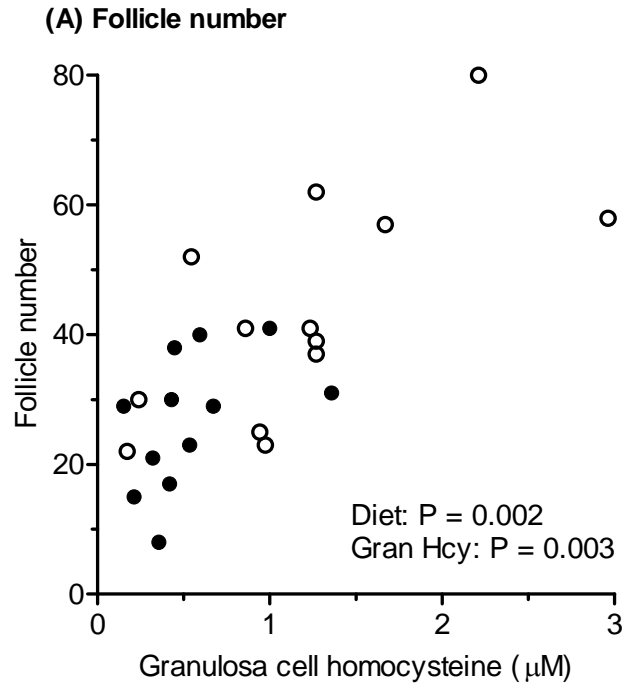


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SUPPLEMENTAL FIGURE 1. Regression of diet (Control [solid circles], MD [open circles]) and granulosa-cell homocysteine (Hcy) concentration on follicle number (A) and follicle fluid estradiol concentrations (B) in batch 1.



SUPPLEMENTAL TABLE 1. Plasma concentration of selected amino acids (percentage total amino acids) in batch 1.

	<b>Control</b>	<b>MD</b>	<b>SED</b>	<b>Significance <i>P</i></b>
<b>Amino acids (mM)</b>	3.68	3.44	0.267	
<b>(a) Methyl cycle related</b>				
Methionine	1.05	0.89	0.053	<0.01
Glycine	23.90	30.79	1.637	<0.001
Serine	3.52	4.89	0.427	<0.01
Taurine	2.14	1.15	0.350	<0.01
<b>(b) Ammonia metabolism related</b>				
Citruline	5.09	4.44	0.286	<0.05
Arginine	5.26	3.96	0.323	<0.001
Ornithine	4.38	3.08	0.341	<0.001
Aspartate	0.23	0.22	0.025	
Glutamate	1.79	1.68	0.130	
Glutamine	9.55	11.40	0.782	<0.05
<b>(c) Branch chain amino acids</b>				
Isoleucine	2.22	2.28	0.142	
Leucine	3.44	2.81	0.138	<0.001
Valine	6.61	5.41	0.219	<0.001
<b>(d) Miscellaneous amino acids</b>				
Alanine	7.64	6.72	0.472	
Asparagine	2.24	2.13	0.141	
Histidine	2.01	1.84	0.157	
Lysine	5.21	3.61	0.353	<0.001
Phenylalanine	1.18	1.01	0.064	<0.05
Proline	3.41	3.29	0.204	
Threonine	4.66	3.45	0.409	<0.01
Tryptophan	0.93	0.94	0.090	
Tyrosine	1.80	1.37	0.100	<0.001
1-methyl-histidine	1.76	2.65	0.313	<0.001

SUPPLEMENTAL TABLE 2. Concentration (percentage total amino acids) of amino acids in granulosa cells in batch 1. Note: In contrast to plasma, only methyl-cycle related amino acids were altered by diet in granulosa cells.

	Control	MD	SED	Significance <i>P</i>
<b>Amino acids (µM)</b>	417.4	407.9	61.2	
<b>(a) Methyl cycle related</b>				
Methionine	2.16 (0.334)	1.63 (0.213)	(0.061)	0.08
Sarcosine	9.88 (0.995)	5.39 (0.731)	(0.106)	0.04
Glycine	14.47 (1.160)	24.21 (1.384)	(0.046)	<0.001
Serine	4.65 (0.667)	5.47 (0.738)	(1.057)	
Taurine	2.38 (0.376)	1.26 (0.101)	(0.089)	0.005
<b>(b) Ammonia metabolism related</b>				
Citruline	0.81	0.91	0.374	
Arginine	5.77	4.97	0.775	
Ornithine	0.60	0.41	0.219	
Aspartate	3.25	2.75	0.573	
Glutamate	12.23	13.03	1.299	
Glutamine	3.45	3.91	0.569	
<b>(c) Branch chain amino acids</b>				
Isoleucine	1.01	0.91	0.292	
Leucine	3.44	3.78	0.138	
Valine	3.24 (0.511)	3.05 (0.484)	(0.034)	
<b>(d) Miscellaneous amino acids</b>				
Alanine	10.23	10.69	0.989	
Asparagine	3.25	2.75	0.573	
Histidine	1.20	1.23	0.166	
Lysine	5.37	4.98	0.642	
Phenylalanine	2.64	2.31	0.746	
Threonine	3.05	3.20	0.436	
Tryptophan	0.40	0.31	0.113	
Tyrosine	2.59	2.05	0.362	