Fig.1a

Time	Chow-Con								Chow-CC							
0	25.14	22.56	24.75	21.43	23.63	24.58	22.17	20.93	23.13	24.51	23.9	23.32	23.56	21.94	23.22	24.36		
1	26.15	25.34	25.33	23.01	25.57	25.56	22.83	20.67	23.48	25.49	24.6	24.4	24.32	24.02	24.52	25.75		
2	26.49	26.47	25.9	23.05	26.27	26.37	22.9	20.9	24.25	26.31	24.65	25.35	25.28	24.97	25.96	26.26		
3	27.73	27.47	26.65	26.3	27.31	27.38	24.06	21.41	25.15	27.16	25.56	26.59	25.18	25.09	26.59	27.29		
4	27.49	27.24	26.45	24.82	27.67	27.43	22.47	22.17	26.12	27.35	26.12	26.47	26.64	26.06	26.81	27.51		
5	28.2	26.85	27.24	24.3	28.36	27.39	24.72	22.45	25.41	27.29	26.41	26.77	26.04	25.41	27.01	27.64		
6	28.79	27.69	28.25	24.91	28.71	28.1	24.89	22.8	26.07	28.35	27.23	27.22	26.44	25.4	26.81	28.11		
7	29.49	28.19	28.58	25.85	29.44	28.73	25.89	22.8	26.23	29.82	28.89	28.35	27.31	26.63	27.31	28.39		
8	29.93	28.53	29.5	26.72	30.11	29.65	29.92	24.23	30.03	29.95	28.18	28.75	27.23	27.15	28.66	29.06		
9	29.57	28.55	30.13	26.87	30.63	29.32	26.84	24.48	26.64	29.01	27.76	29.17	27.51	27.4	27.83	28.9		
10	30.29	28.9	29.39	27.22	30.65	29.95	27.75	25.07	27.36	29.76	28.43	29.29	28.35	27.45	28.49	29.67		
11	30.01	29.38	30.39	27.24	31.39	30.35	28.73	25.95	27.22	30.39	28.34	29.95	29.8	28.78	28.83	29.67		
12	30.65	29.79	30.65	27.86	31.38	30.09	29.41	26.84	28.41	30.42	28.76	30.79	30.56	29.27	29.02	30.32		
13	30.72	30.11	31.31	28.14	32.47	31.08	30.12	28.51	28.98	31.43	28.89	31.47	31.8	28.31	30.75	30.36		
14	31.08	31.02	32.11	28.78	32.34	31.95	32.32	29.16	29.36	32.41	30.85	32.46	33.03	29.46	31.42	31.35		
15	32.16	30.94	32.43	28.77	32.07	31.42	31.54	29.45	29.13	31.76	30.3	32.47	32.05	30.33	32.08	30.97		

Fig.1b

Time	HFD-Con										HFD-CC							
0	21.69	23.9	23.72	24.7	24.23	26.07	21.84	25.57	23.4	24.36	23.45	23.17	24.83	22.02	23.14	24.17	23.48	23.53
1	24.86	24.02	25.73	27.98	27.12	27.62	24.98	28.27	27.38	22.43	23.62	24.26	25.79	23.46	24.11	24.5	24.52	24.33
2	27.92	23.29	27.19	29.13	27.78	27.21	28.13	29.35	28.01	22.96	25.62	23.63	26.84	23.55	25.26	25.18	25.06	25.38
3	28.61	25.86	29.06	31.65	30.26	29.73	31.94	31.3	30.44	25.51	26.82	24.56	27.22	23.97	26.05	26.65	26.24	25.72
4	30.29	27.53	32.82	34.02	33.12	33.06	35.5	33.88	33.12	24.8	28.38	25.39	28.59	24.57	27.58	28.36	26.69	26.32
5	33.29	29.92	36.82	36.39	34.56	34.16	36.89	37.12	35.48	26.38	28.92	26.12	28.76	25.43	29.44	29.32	26.66	28.04
6	35.26	32.58	40.88	38.93	37.61	38.38	40.83	40.56	38.74	27.42	30.36	26.7	30.99	27.09	30.43	31.53	27.67	29.42
7	37.71	34.01	42.64	41.69	38.93	42.4	43.37	43.35	39.67	26.58	31.65	27.02	32.38	28.08	33.53	32.04	28.22	31.17
8	40.78	36.18	45.84	36.21	41.02	45.38	45.67	46.18	41.91	28.31	33.71	27.06	34.13	28.57	35.26	33.98	28.73	32.66
9	42.31	37.85	45.78	44.8	40.75	44.84	46.07	47.21	43.5	29.18	34.09	27.01	33.42	29.04	36.36	35.82	30.01	33.24
10	44.27	39.17	47.3	47.03	42.52	47.95	49.15	49.76	45.58	31.38	37.28	27.84	35.56	31.42	39.03	36.87	30.98	36.06
11	47.02	41.32	49	45.94	45.08	50.31	49.73	51.27	48.12	32.51	39.39	28.29	37.51	32.02	40.96	37.63	32.06	37.51
12	49.47	44.45	48.85	49.47	47.37	51.06	51.3	52.28	49.03	35.04	40.61	30.15	39.49	32.73	43.73	40.96	33.81	39.32

Fig. 1e

	HFD-Con								HFD-CC							
BAT	0.683	0.785	0.735	0.691	0.848	0.701	0.808	0.703	0.2178	0.2236	0.1988	0.214	0.236	0.2712	0.2605	0.2336		
iWAT	2.967	3.014	2.875	2.805	3.001	2.9721	2.8001	3.067	1.0133	1.2158	1.0576	1.1179	1.0955	1.1224	1.0224	1.3158		
eWAT	2.7271	3.339	2.797	2.981	3.215	3.186	3.015	2.8271	1.2723	1.589	1.371	1.3458	1.3902	1.472	1.272	1.789		
Liver	2.0303	2.2312	1.9783	1.9621	1.9905	2.135	2.092	1.688	1.1401	1.4	1.149	1.2711	1.2144	1.3843	1.277	1.205		

Fig. 1g

	48.781	56.389	50.115	52.037	47.72	48.495	48.13	33.258	41.587	42.39	42.08	36.969	58.242	58.242	45.03	58.759	48.703	50.76
iWAT-HFD-Con	42.513	47.126	46.348	58.049	44.232	47.618	48.944	40.606	48.291	47.989	42.446	41.697	47.385	43.345	40.674	41.12	41.334	40.253
	59.064	43.55	39.526	41.683	42.829	35.753	35.68	38.713	53.213	41.101	38.429	38.98	39.2	39.688	49.075	49.808	44.644	41.04
	39.512	55.245	50.134	41.517	39.182	29.745	37.69	38.348	45.088	40.606	41.853	44.287	43.917	42.971	42.068			
	22.627	19.66	19.347	21.948	28.744	24.464	24.095	25.572	21.404	19.136	22.352	23.808	21.917	15.182	19.759	24.068	21.029	24.93
	22.141	25.041	16.827	17.628	29.023	24.319	22.551	21.732	21.536	22.497	26.902	24.463	22.885	20.115	18.942	15.4	16.747	18.875
iWAT-HFD-CC	21.295	17.624	15.397	15.29	25.051	20.206	15.425	22.939	20.542	21.63	16.105	13.777	21.783	18.709	18.594	16.191	19.13	18.524
	21.704	24.044	19.091	20.294	17.885	26.422	18.568	18.568	19.794	18.536	17.943	19.114	18.865	15.568	22.098	25.784	20.898	18.964
	17.73	22.188	24.853	28.733	15.548	20.256	15.725	20.225	16.618	18.54	23.294	22.889	18.951	14.471	14.471	20.693	20.332	19.545
	21.421	19.525	16.072	19.806	18.513	25.524	23.225											
	65.388	70.228	64.202	53.866	63.144	59.385	40.094	50.045	41.374	53.561	36.665	51.276	64.491	62.694	64.535	54.781	43.887	46.79
	66.768	62.944	66.274	68.951	68.006	59.774	43.025	48.313	68.197	53.122	64.725	63.973	56.539	53.231	67.037	62.886	69.87	57.803
	59.758	54.135	46.67	70.181	60.131	52.327	72.981	70.985	46.479	57.502	58.39	70.709	73.401	67.05	81.317	71.859	69.373	76.184
	53.429	63.038	52.139	65.644	65.505	75.105	59.141	48.289	62.848	67.623	74.392	69.41	58.434	63.95	38.975	67.985	53.803	50.894
eWAT-HFD-Con	68.32	68.32	72.593	56.042	73.855	67.25	85.539	53.382	41.586	67.262	52.438	71.851	54.648	56.238	63.171	56.875	73.651	66.636
	70.967	60.825	59.088	49.397	48.803	79.459	64.301	58.498	47.184	57.423	59.406	43.456	65.27	60.831	50.52	70.355	61.72	56.525
	59.129	70.465	69.908	57.351	60.356	57.103	35.365	61.509	87.54	80.802	72.921	65.273	48.717	45.156	64.781	67.584	48.285	39.67
	53.31	48.727	45.584	56.503	63.957	52.002	56.401	67.338	72.558	80.144	60.351	61.854	66.375	75.568	67.611	57.907	88.701	65.128
	74.89	78.823	90.449	63.458	65.765	74.131	70.196	54.811	45.514	60.607	50.291	51.363	70.117	58.782	73.18	54.755	46.188	48.077
	51.666	67.293	52.518	44.279	60.404	60.404	49.031	60.455	51.559	67.623	54.603	66.162	48.492	52.656	68.718			
	46.622	40.168	35.151	32.494	34.3	36.974	28.985	41.982	37.209	38.944	36.363	36.359	39.472	29.531	32.328	35.539	33.448	35.304
	30.145	37.377	36.244	38.769	34.304	46.925	29.018	26.91	39.389	32.617	33.434	35.07	33.927	29.551	33.937	34.2	27.752	32.102
	32.803	37.827	46.661	37.905	34.292	38.318	39.79	40.728	38.104	40.011	36.841	40.407	38.313	28.313	34.552	39.188	34.653	37.049
	40.321	31.876	27.987	30.371	31.458	33.565	22.105	37.366	32.509	40.188	41.364	36.547	40.511	42.877	35.274	38.657	35.73	33.883
	38.767	39.997	40.436	42.62	28.602	30.868	35.392	26.52	29.808	32.573	38.561	29.722	23.626	31.504	44.335	44.259	33.685	36.076
	36.076	34.275	36.312	37.387	43.006	43.016	46.374	40.787	51.038	39.338	48.688	44.733	37.022	41.753	43.511	27.849	31.82	38.445
eWAT-HFD-CC	39.506	35.361	35.361	36.102	36.102	20	28.115	32.361	41.823	33.693	34.765	29.256	36.382	30.991	31.991	36.906	45.127	38.299
	37.82	39.774	38.014	42.144	42.535	43.765	38.004	44.568	41.455	32.754	40.659	27.135	31.982	36.845	36.845	30.263	49.438	42.327
	36.788	28.847	30.779	30.391	36.851	26.846	29.663	33.026	28.523	33.003	38.3	42.513	33.887	30.984	36.231	38.656	30.885	28.808
	30.277	35.376	22.123	36.904	29.218	21.146	35.933	40.223	31.152	34.834	37.579	37.024	42.472	35.402	29.195	32.357	33.217	32.21
	39.381	29.771	29.771	29.771	30.601	38.239	38.25	36.246	28.748	35.728	33.271	37.335	30.875	35.855	36.403	38.05	39.844	39.764
	42.392	44.186	39.829	37.766	31.471	39.24	44.091	36.012	40.724	38.233	36.916	34.577	40.76	37.075	35.572	39.808	30.673	38.197
	33.209	31.032	27.75															

Fig. 1h

Time	HFD-Con										HFD-CC							
1 h	18.9772	19.1708	21.7778	14.2582	18.6384	18.2578	16.9466	25.6388	18.6516	30.206	26.1976	20.5392	26.7916	20.0904	27.4164	33.7106		
2 h	20.6932	21.8306	24.442	13.882	18.139	18.1566	16.9312	24.288	18.9926	31.7306	29.7924	21.5798	24.2418	20.8406	24.7962	29.1632		
3 h	20.207	21.1728	25.6608	14.3792	16.28	19.2302	14.707	24.101	20.9946	32.5952	29.2028	20.559	28.3426	20.1344	25.3198	28.7628		
4 h	19.2522	22.4268	25.113	13.3474	14.6146	19.7956	17.0192	21.4192	21.7536	32.6876	28.0918	22.0616	30.5008	19.0938	25.4606	29.4602		
5 h	21.7184	24.299	24.0878	14.6432	14.4584	21.8724	17.8662	24.9106	21.8746	32.5732	28.7276	21.8592	24.4772	21.2806	25.883	32.67		
6 h	19.624	23.5796	28.2326	14.0074	18.5504	20.7218	16.984	23.8414	18.8738	31.5898	32.0804	21.802	29.6538	24.717	25.773	33.253		
7 h	17.952	23.0626	28.2414	13.8952	14.9094	22.7062	17.0962	23.0494	23.5312	36.3858	29.865	23.1748	29.8936	25.2824	21.2388	28.6528		
8 h	21.4368	20.559	28.1468	14.5552	15.6882	19.2214	17.3998	23.2628	19.8418	32.4346	28.8002	20.9726	27.6804	25.8632	25.1724	31.7878		
9 h	17.8904	20.713	27.7838	16.2558	16.8234	20.6624	17.9608	23.5994	19.0388	32.318	29.4624	21.6876	26.7058	18.6912	27.06	30.8528		
10 h	17.2436	20.229	28.2612	16.489	19.5778	17.2128	16.764	24.2242	21.4808	30.7912	28.7606	25.8544	27.8322	23.5268	23.8634	31.5854		
11 h	19.1708	21.5292	26.7212	15.7784	18.0466	18.3854	17.4394	24.8732	19.3952	30.9914	28.3932	22.3828	26.0304	22.2024	25.5618	30.14		
12 h	18.0928	22.3718	28.5428	16.7112	16.6694	20.1916	17.2128	25.0822	21.3972	32.6634	29.524	22.5148	30.0586	25.3352	26.4528	32.3048		
13 h	21.3444	23.892	29.689	16.7024	17.0808	19.2148	18.8232	26.279	23.7666	32.5864	29.0273	23.8964	32.7536	25.399	28.6088	31.4666		
14 h	21.4126	23.4234	28.6946	16.9488	14.9952	22.0924	18.2226	22.5434	23.6588	33.319	30.9166	22.5324	31.504	25.3462	28.0544	29.6318		
15 h	22.6842	24.442	30.3028	17.5824	17.281	20.4688	18.6318	27.4758	23.529	34.2012	33.6182	26.6068	32.8988	24.3562	26.0722	30.9364		
16 h	16.7596	26.763	30.008	16.6144	19.8132	19.349	17.6924	25.7664	23.9932	35.002	30.1466	21.461	27.8916	26.4088	27.0556	33.858		
17 h	22.9548	24.6642	31.0574	16.4604	17.2128	19.404	18.1874	24.387	24.4574	33.682	31.35	21.2102	33.0506	24.6334	26.3714	31.4314		
18 h	22.3564	23.1462	28.5824	16.7046	18.59	18.2622	16.6408	22.957	26.532	33.2288	32.681	23.4454	29.1676	25.036	26.6024	29.1104		
19 h	23.2892	24.0922	29.1324	15.1602	18.0862	17.7056	15.5364	23.0912	23.0186	36.465	31.7262	23.4762	28.5098	24.9172	24.1318	33.5456		
20 h	19.9188	22.6336	27.5308	16.742	17.699	18.282	15.642	24.1714	23.8546	34.4168	30.6702	22.9856	28.5406	25.4408	29.073	28.7166		
21 h	20.526	24.1516	28.6506	16.8388	16.39	19.3314	16.5924	25.4496	25.806	33.0704	29.8804	22.3036	29.0598	23.9382	24.4244	29.48		
22 h	20.9572	26.2394	28.3624	16.2096	17.2062	17.1886	17.0588	24.673	24.266	31.6338	29.0444	24.255	31.977	24.4288	25.839	31.1564		
23 h	23.4454	24.2396	30.6262	14.0932	17.1688	17.3558	14.8082	25.531	23.7974	32.8196	34.21	22.0792	30.8264	24.398	30.8726	29.2776		
24 h	20.7086	22.8822	26.7542	15.8356	17.9608	17.6748	16.0688	24.8248	23.5642	33.9174	30.6306	25.8038	29.48	20.9506	28.6704	31.5326		
Average	HFD-Con										HFD-CC							
Daytime	19.3548667	21.74535	26.4176	14.8501833	16.8663	19.7011833	17.0272667	24.0241833	20.4854833	32.2472333	29.0748333	22.0823167	27.6840667	22.2548333	25.3331833	31.0286167		
Night	21.3631	24.2141167	29.1159	16.3243667	17.457	18.8607833	16.9920667	24.7624667	24.1869833	33.6952	31.3522	23.3379667	30.47165	24.6044333	27.148	30.8452833		

Fig. 1i

Time	HFD-Con										HFD-CC							
1 h	15.4242	14.828	16.3152	12.1616	15.2878	15.3098	14.7378	21.1288	13.7566	20.5568	17.688	15.1514	21.2784	17.402	20.3742	26.598		
2 h	16.049	15.1558	16.5616	11.22	15.2834	14.0184	14.0206	20.042	13.7808	19.1972	18.359	17.1732	19.0388	16.9268	18.3568	22.6754		
3 h	15.224	15.8202	19.3754	13.475	15.0194	16.1172	13.5014	20.075	15.8466	19.0234	17.8024	16.3892	25.3352	16.0116	18.1984	20.8208		
4 h	13.9722	15.2548	18.3216	12.6764	13.9084	16.2184	14.1086	18.3238	15.5584	20.4666	17.3602	18.6824	25.6432	14.817	18.4426	22.0506		
5 h	15.7586	17.0324	16.995	13.7786	12.9536	17.8882	14.6894	20.0794	16.1568	18.6538	18.623	17.6286	19.5206	16.8564	18.0884	24.6576		
6 h	14.6982	16.357	21.0782	12.408	16.6474	17.1622	13.827	19.2808	13.7918	18.6956	21.5886	17.1666	23.4476	19.1224	18.6164	25.2824		
7 h	13.0988	15.8598	20.8406	13.7676	13.7038	19.8066	13.5762	19.0608	18.2644	23.8634	18.8606	18.8936	23.6456	18.92	16.9884	22.1474		
8 h	17.0126	15.0758	20.8538	11.7414	14.8874	17.3008	14.949	18.9794	15.004	19.8308	18.4932	17.0456	21.219	19.6328	19.3732	24.1362		
9 h	12.5004	14.1086	20.207	12.4476	15.059	18.6802	16.6012	19.0872	13.8094	19.7076	18.6494	16.8102	20.8604	15.2438	22.8602	23.0472		
10 h	12.3112	13.6686	20.0486	12.5048	17.3514	15.0612	14.08	21.0188	16.962	19.0366	19.6856	20.1784	21.8372	17.6286	19.2962	23.1198		
11 h	13.9898	14.5882	20.8142	12.6588	15.8202	16.7904	16.1568	20.8164	14.0888	19.7318	17.875	17.6308	21.2344	17.9014	20.8868	23.0978		
12 h	14.5442	19.041	20.9066	14.2296	15.345	17.3536	14.2232	19.8704	14.9116	21.7008	20.9044	18.92	21.9142	18.3018	19.7076	23.87		
13 h	16.5594	18.4514	23.518	14.2934	15.3098	16.5924	16.0468	19.811	16.9774	22.0682	25.8412	19.4194	23.8678	18.3942	21.923	23.2936		
14 h	16.0996	18.0686	23.5158	15.2262	13.2374	19.7472	14.795	18.436	18.447	23.2804	22.968	19.0476	24.9238	19.7626	22.2002	23.6038		
15 h	16.9708	18.9332	23.364	15.1184	15.3604	17.7452	14.4738	21.681	17.1248	23.4256	23.0252	20.1982	25.278	19.052	21.384	22.9064		
16 h	13.1934	20.7438	24.3826	14.6234	17.6066	17.7364	16.1678	22.9284	18.04	23.3332	19.7846	18.2226	21.2432	19.8726	22.2046	26.4044		
17 h	16.7222	17.1974	22.8074	13.959	15.763	17.1358	15.7278	20.9352	17.6176	21.5688	20.7042	17.7386	26.213	18.1324	21.164	22.528		
18 h	16.3174	17.424	22.1452	13.211	15.7652	16.5022	15.4066	19.8066	21.2168	22.2596	22.4202	19.0344	22.0022	17.7958	21.4038	21.1354		
19 h	18.7264	18.3326	22.5698	12.6434	15.4528	16.4252	13.4596	19.3116	17.9322	23.3552	21.0254	17.7606	21.8262	18.227	19.7956	24.9612		
20 h	14.4122	16.555	20.3676	13.4134	15.3848	16.4538	14.1966	20.7108	17.4174	22.0814	18.8034	18.9024	21.8196	18.3634	23.3222	19.8616		
21 h	15.2504	17.5384	22.132	13.8622	14.7576	16.5858	15.1822	21.3642	18.4228	22.8888	19.6306	17.5846	22.9504	17.3558	19.9738	21.1156		
22 h	15.125	19.0454	20.7746	13.0768	15.5122	15.0722	14.883	20.4336	18.1698	20.9396	20.2312	17.7628	24.9348	17.2392	19.9078	22.2596		
23 h	17.6286	16.412	22.924	12.2232	15.7124	15.1954	13.0284	21.3444	17.0478	21.4632	21.7052	17.556	24.0548	19.0454	23.5136	20.9704		
24 h	16.0292	18.7506	19.5888	11.8756	14.355	16.2162	13.3408	20.1168	16.016	22.7392	18.7022	18.8232	23.6544	17.4966	21.1354	19.6196		
Average	HFD-Con										HFD-CC							
Daytime	14.5486	15.5659167	19.3598167	12.7557833	15.1055667	16.8089167	14.5376	19.8135667	15.1609333	20.0387	18.8241167	17.6366667	22.0812167	17.39705	19.2657667	23.4586		
Night	16.0862167	18.1210333	22.3408167	13.6271667	15.3497667	16.7839833	14.7257	20.5733	17.8691333	22.4502667	21.2367833	18.5042	23.5640167	18.39475	21.494	22.3883		

Fig. 1j

	HFD-Con										HFD-CC							
Body temperature	37.4	37.3	37.8	37.5	37.4	37.3	37.7	37.6	38	37.9	37.9	38.1	37.8	38.2	37.9	37.8		

Fig. 2a

Time	HFD-Con							HFD-CC							
0 h	37.4	37.6	37.5	37.5	37.4	37.4	37.5	37.6	37.9	37.8	38	37.9	38	37.9	38.1	38
1 h	35.7	37	36.6	36.5	35.7	35.5	36.8	36.6	36.7	36.3	36.6	36.6	36.8	36.9	36.9	36.6
2 h	35.1	36.6	35.2	35.1	35.3	35	35.5	35.4	35.3	35.5	35.8	36	36.2	35.6	36.5	36.3
3 h	34.3	36.4	34.4	34.5	34.3	34	34.8	34.6	34.3	36.1	34.9	36.1	35.9	34.8	36.1	35.9
4 h	34	34.5	34	33.8	34.1	34	34.5	34.2	34.6	35.8	34.3	35.8	35.3	34.6	35.9	35.3
5 h	32.1	33.9	33.6	33.5	32	32.2	33.7	33.9	34.3	34.9	34	34.9	35	34.3	35.2	34.8
6 h	32.2	33.3	33.7	33.8	32.2	31.8	33.8	33.3	34.2	34.6	34.5	34.9	34.8	34.5	34.9	35

Fig. 2b

	HFD-Con							HFD-CC							
RT	31.6	31.5	32.8	33.3	32.3	31.5	31.7	32.3	33.5	32.4	34.1	33.9	33.7	33.8	34.8	33.3
Cold	29.8	29.5	30.6	30.2	29.3	31	30.8	30.2	32.6	31.4	32.5	33	31.8	32.5	32.9	32.6

Fig. 2c

	RT-HFD-Con							RT-HFD-CC							
Ucp1	0.83333333	0.83666666	1.1125	0.99416666	1.055	1.16833333	2.49749999	1.39583333	1.64749999	1.26833333	1.94083333	1.98583333				
Ppargc1a	1.24528302	0.89536879	0.85567263	1.02180838	0.94976722	1.03209998	1.47022789	1.35260966	1.35849057	1.45699584	1.46140652	1.34525852				
Prdm16	0.75376884	0.86532663	1.01231155	0.6919598	1.29120602	1.38542713	1.68693466	0.85854271	0.74170854	0.98969849	0.68291457	0.84195979				
Dio2	0.83530558	1.03661422	1.1827927	0.95726019	0.53543088	1.4525964	0.94974244	2.01976889	1.51273841	1.48934985	2.12167617	2.32632604				
Elovl3	1.08827118	1.07379595	0.9359984	1.05023626	0.95050691	0.90119129	1.1258735	1.35335093	1.66418573	1.717794	1.63839652	1.79110189				
Cidea	0.83001909	1.0353755	1.09171579	1.0707458	1.16276777	0.80937604	1.55472123	1.24714588	1.1591093	1.41482792	1.27856194	1.4793258				

Fig. 2d

	Cold-HFD-Con							Cold-HFD-CC							
Ucp1	2.02999999	2.71333332	2.93749999	3.53666665	2.15999999	3.24249999	3.53999999	3.96333332	4.00166665	6.69999997	3.55583332	5.77416664				
Ppargc1a	1.5496202	1.61578045	2.19946092	1.80543985	1.49963245	2.22298457	3.76966431	3.22009178	2.7199216	2.81842687	3.26243569	3.53001716				
Prdm16	1.26105527	1.30854271	0.21331658	1.10201004	0.25025125	0.88567839	1.3643216	1.17135678	1.33115577	1.780402	1.24221105	0.43040201				
Dio2	4.61589864	4.49979116	3.53584852	5.00431573	4.9099262	5.33593205	6.67409158	7.79340106	5.96157592	5.14798829	8.06404007	6.6907977				
Elovl3	6.29659249	5.71841515	5.533831	5.3632562	5.75658318	2.17807307	10.5297158	14.1920491	8.84979035	14.390443	7.51264502	6.9551656				
Cidea	1.65455828	1.63380625	1.58856588	1.73932559	2.33834793	2.47193623	2.55782443	2.87204728	2.58548862	3.61829541	5.05479387	4.80769988				

Fig. 2e

	RT-HFD-Con							RT-HFD-CC							
Ucp1/Tubulin	0.96585073	1.0798125	0.95433677	1.87494345	1.82762436	2.86828801	3.30275274	4.81612575	7.83113506	8.10996733	9.09137343	10.3580263				

Fig. 2e

	RT-HFD-Con							RT-HFD-CC							
Ucp1	0.83102493	1.18836565	0.47783933	1.42770083	1.16426593	0.91080332	2.31772853	2.7199446	4.53988919	3.18199446	2.14072022	5.03767313				
Ppargc1a	0.78268331	0.83245218	1.23458909	0.99653998	1.10476929	1.04896615	1.36839483	1.73089379	1.37741855	2.43695851	2.04118803	2.637418				
Prdm16	2.1433854	1.17307994	0.70581116	0.73008225	0.68012819	0.56751305	0.45052778	0.35223325	1.33188409	1.4383138	1.72210394	2.90042805				
Dio2	0.44972973	0.49693694	0.9563964	1.17117117	1.34378378	1.58198198	1.78126126	2.00036036	2.25837838	2.61765766	3.22774774	3.81657657				
Elovl3	1.13614026	0.58148492	0.99986718	0.89148625	1.83158454	0.55943684	2.358879	4.09563023	4.95072386	5.50564484	3.07158985	2.23004383				
Cidea	1.13540961	1.14353419	1.05010156	0.95463778	1.16993906	0.54637779	1.34055518	1.60663507	1.99052133	1.28774543	1.67163168	1.6310088				

Fig. 2f

	Cold-HFD-Con							Cold-HFD-CC							
Ucp1	15.0141274	10.9578947	13.0587258	16.967867	10.7800554	6.88670359	17.6426593	24.5950138	35.8221606	25.0396122	20.2861496	20.1182825				
Ppargc1a	3.75486478	3.06479918	2.80731863	3.3566031	5.40603981	4.68181693	7.33495724	8.43485482	10.5207739	10.8124118	8.87629751	10.2202231				
Prdm16	1.61345555	0.81183748	0.26731808	1.41794222	1.24495193	1.07111854	1.45176038	1.00197217	0.41388584	0.97312924	1.0506488	0.3927747				
Dio2	7.00864864	8.21657657	8.86558558	7.54558558	9.57333332	8.7463063	90.7664864	41.2245045	29.7174774	33.6944144	60.9218017	46.7257657				
Elovl3	11.9067605	6.2991101	8.4778855	8.35569132	12.8171072	5.69345198	13.2320361	16.4414929	59.1539381	42.4877141	17.7011555	57.9107451				
Cidea	2.03114421	2.04942451	1.8056872	2.28503724	2.40487474	2.04129993	3.06093432	4.57413676	4.00338524	3.39607312	2.91672309	2.80297901				

Fig. 2f

	RT-HFD-Con							RT-HFD-CC							
Ucp1/Tubulin	0.81743745	0.95814848	1.22441406	2.53661268	4.74472345	4.6050756	13.7873659	9.98517846	7.8747591	20.9155152	16.6959521	16.3713411				

Fig. 2h

Time	*Ucp1*-Con							*Ucp1*-CC							
0	20.75	20.92	21.09	22.11	22.74	19.83	22.78	22.25	22.39	22.57	23.33	20.62	21.21	18.4	19.05	
1	21.17	22.16	22.19	22.79	22.84	22.01	23.74	22.61	23.18	23.25	23.58	21.95	22.33	21.18	21.23	
2	22.2	22.79	23.35	23.54	23.63	22.68	24.57	23.3	23.52	24.07	24.91	22.85	23.08	21.33	22.59	
3	23.12	23.81	24.25	24.63	24.87	22.55	24.9	24.56	25.16	25.29	26.34	23.57	24.45	22.02	23.48	
4	24.44	24.55	25.67	25.85	26.41	23.79	25.18	24.76	25.79	26.23	27.19	23.46	24.56	23.71	24.62	
5	24.63	25.3	26.53	27.09	27.12	24.2	26.63	25.91	26.6	28.34	28.75	24.05	25.36	25.15	25.63	
6	25.31	25.78	26.36	28.05	28.36	25.19	27.12	26.42	27.43	29.03	30.19	25.39	26.42	25.27	26.16	
7	26.49	26.73	26.98	28.92	29.63	26.43	29.3	27.63	28.45	30.34	32.1	25.84	26.79	26.43	26.82	
8	27.45	27.61	27.82	30.22	30.76	26.9	29.72	28.38	28.6	31.87	33.04	26.99	27.86	26.69	26.89	
9	28.1	28.19	28.88	31.09	31.25	28.02	31.97	29.8	30.12	33.44	35.42	28.21	28.89	28.72	28.73	
10	28.75	28.69	29.14	32.51	31.84	29.8	33.44	30.68	30.69	35.23	37.56	28.98	29.46	29.79	29.71	
11	28.86	30.77	30.5	35.46	34.53	31	36	33.52	32.46	37.09	40.06	30.58	31.8	30.09	31.52	
12	30.21	33.12	32.24	35.23	37.45	32.76	40.04	34.88	34.97	38.99	39.5	31.97	33.97	31.45	32.48	
13	32.35	35.6	33.56	32.55	40.6	35.35	40.5	37.07	36.98	39.78	40.42	32.28	37.13	33.2	35.12	
14	33.35	36.63	35.12	33.03	41.47	35.75	41.29	37.75	38.42	40.5	40.74	32.66	37.49	33.68	34.62	
15	36.23	37.88	34.78	36.7	36.31	36.7	42.93	40.28	40.16	39.65	39.33	35.17	36.23	34.95	34.5	
16	39.23	39.84	35.82	34.22	34.77	38.39	44.69	39.97	42.2	39.5	37.57	34.8	35.7	35.2	35.4	
17	41.92	42.6	36.26	37.34	35.12	39.54	46.58	40.52	43.45	42.8	40.22	34.96	36.27	35.45	40.39	
18	44.85	43.96	36.52	38.6	34.37	39.8	46.8	41.28	43.9	42.69	41.01	35.68	36.75	35.83	43.97	

Fig. 2j

	Ucp1-Con							*Ucp1*-CC							
body temperatur	36.7	35.8	36.1	36.1	36.4	36.2	36.6	36.5	36.4	36.4	36.7	36.5	35.8	35.8	36.3	36.8

Fig. 2k

	Ucp1-Con							*Ucp1*-CC							
RT	30.9	31.8	31.5	30.7	31.3	31.5	31.6	30.9	31.5	31.3	30.9	31.4	31.4	31.5	31.4	31.6

Fig. 3a

	HFD-Con								HFD-CC							
Axis.1	-0.088990796	-0.099674635	-0.025164035	-0.081806592	-0.094996706	-0.055390921	-0.006390494	-0.041590809	0.056525541	0.035325774	0.149023036	-0.007862244	0.045075851	0.057214834	0.079228078	0.079474119
Axis.2	0.001190755	0.01485362	-0.000118	0.001328143	0.013556926	-0.051544249	-0.03266314	0.021235556	0.062378216	-0.039305916	0.002790423	-0.005298192	0.06565361	0.021867399	-0.113948901	0.038023751

Fig. 3c

	HFD-Con	HFD-CC
Verrucomicrobia	0.000083	0.013462
Proteobacteria	0.064264	0.08744
Firmicutes	0.404038	0.469746
Bacteroidetes	0.499172	0.321186
Actinobacteria	0.008178	0.014213
Deferribacteres	0.022945	0.092916
Other	0.00132	0.001037

Fig. 3d

	HFD-Con	HFD-CC
Lachnospiraceae	0.216901	0.199307
Porphyromonadaceae	0.213789	0.126249
Ruminococcaceae	0.125423	0.116666
Bacteroidaceae	0.082541	0.095399
Rikenellaceae	0.115928	0.051391
Desulfovibrionaceae	0.059484	0.083746
Deferribacteraceae	0.022945	0.092916
Lactobacillaceae	0.020777	0.070048
Erysipelotrichaceae	0.005943	0.02998
Prevotellaceae	0.014019	0.017331
Streptococcaceae	0.013243	0.010663
Coriobacteriaceae	0.008057	0.014036
Peptostreptococcaceae	0.000021	0.018684
Verrucomicrobiaceae	0.000083	0.013462
Peptococcaceae_1	0.003283	0.005111
Other	0.097563	0.055011

Fig. 3e

	Alistipes		Alistipes		Lactobacillus		Clostridium_XlVa		Acetatifactor		Mucispirillum		Odoribacter	
	HFD-Con	HFD-CC	HFD-Con	HFD-CC	HFD-Con	HFD-CC	HFD-Con	HFD-CC	HFD-Con	HFD-CC	HFD-Con	HFD-CC	HFD-Con	HFD-CC
	14.090121	1.92282	0.02168	1.751051	2.064572	12.244013	0.406911	0.983924	6.203722	1.797745	1.662664	3.81729	4.53272	0.905543
	13.326329	11.08832	0.010006	0.011674	2.778334	0.997265	0.365219	2.102928	3.823961	1.34414	1.339137	16.089654	4.599426	1.597625
	6.35548	2.920085	0.010006	3.627176	4.51104	9.884264	0.612034	0.385231	9.360616	0.768795	6.7774	14.340271	0.00334	0.106731
	14.915616	2.256354	0.00667	4.686145	1.205723	2.389767	0.40024	0.575345	4.721166	1.212394	0.145087	11.842105	4.057434	0.496965
	12.779334	3.703889	0.00334	0.363551	2.851711	10.327863	0.265159	0.483624	1.819425	1.635982	0.195117	1.560937	2.017877	0.435261
	9.068775	9.432326	0.00167	4.844573	1.439197	10.286172	0.395237	1.260756	1.747715	1.871123	0.170102	8.064839	3.025148	0.90054
	5.998599	4.019078	0.00834	0.156761	1.112334	0.882196	0.466947	0.758789	2.036222	2.006204	7.973117	12.849376	0.978921	1.2224
	16.206391	5.770129	0.005	1.961177	0.658729	9.027083	0.365219	0.320192	1.028951	1.84444	0.093389	5.768461	0.093389	0.236809

Fig. 3g

	HFD-Con				HFD-CC									
Tjp1	0.6499133	1.56954062	0.74999995	0.869584	0.91507793	1.2458838	1.49220094	1.56109175	1.81130837	1.54744357	1.17699299	1.48375206		
Ocln	0.7466401	0.96615229	1.31035338	1.41264307	0.55699351	1.00721749	1.59780981	1.31333994	1.9084121	1.3723245	1.14534591	2.92682919		
Muc2	0.8175501	1.09061183	0.93037201	1.27619571	0.71372124	1.17154929	1.51737299	2.50742616	2.70772593	1.40373352	1.51492034	1.81986652		

Fig. 3h

	HFD-Con								HFD-CC							
LPS	1.27674	1.085898	1.064382	1.148577	0.997026	0.984864	0.982058	0.989542	0.751925	0.764086	0.787474	0.757538	0.782796	0.809926	0.735086	0.819281

Fig. 4a

Time	FMT-Con								FMT-CC							
0	21.35	24.41	23.67	24.26	23.01	21.82	25.71	25.13	25.09	25.61	22.71	23.31	22.75	24.17	25.35	23.41
1	25.62	27.19	25.83	27.13	26.63	24.12	28.71	27.54	26.1	30.35	20.19	26.25	26.84	19.32	26.62	21.06
2	27.26	29.93	27.64	34.31	32.35	28.84	29.27	26.63	22.86	28.51	24.08	27.85	26.33	24.7	25.77	25.22
3	28.37	32.24	29.23	36.48	31.83	28.56	30.64	28.58	28.85	28.49	28.42	26.69	25.09	27.04	25.05	24.87
4	29.19	31.53	30.87	37.43	33.7	28.5	31.02	30.89	28.2	27.28	27.78	26.33	25.1	26.63	26.62	25.04
5	32.16	33.26	33.02	37.22	35.26	33.01	36.07	34.02	27.84	32.78	25.26	28.48	29.25	18.99	28.52	25.26
6	33.79	34.04	33.92	38.65	36.38	36.6	38.27	35.54	29.37	33.8	29.4	29.4	29.36	26.13	29.1	25.57
7	35.77	35.67	36.13	39.18	38.6	36.53	38.11	35.99	30.15	34.34	30.59	31.26	32.06	26.97	30.72	25.98
8	37	39.16	39.53	44.39	44.34	40.93	42.51	39.83	32.51	37.53	34.26	35.03	36.09	31.7	32.23	27.81
9	38.91	40.27	40.02	45.76	41.78	40.08	42.58	39.83	32.91	38.54	34.73	34.67	35.44	32.98	32.01	27.67
10	42.08	42.42	42.83	48.87	48.52	44.38	44.95	43.02	33.06	40.66	36.06	36.62	36.85	35.6	34.21	27.54
11	43.8	45.27	45.08	52.34	50.25	46.74	48.07	46.62	34.83	41.05	36.32	37.61	38.19	36.65	35.54	28.47
12	45.37	47.06	45.89	54.26	52.5	47.34	49.99	48.34	36.43	42.45	39.38	40.03	40.05	38.6	37.12	29.75

Fig. 4c

iWAT-FMT-Con	54.558	61.902	60.236	46.036	47.697	43.428	56.277	49.594	65.612	56.136	64.312	49.892	46.595	46.317	53.929	35.406
	37.835	41.979	67.299	44.652	52.692	47.867	53.979	48.979	53.243	47.339	43.838	58.436	46.303	58.927	59.59	57.317
	52.776	46.017	50.741	36.353	51.513	52.897	55.421	41.562	46.104	49.924	43.701	44.815	51.46	52.567	50.516	59.213
	46.049	48.959	44.82	45.078	57.655	50.09	38.56	47.995	46.129	46.095	54.502	53.423	49.66	46.658	40.576	45.714
	51.453	44.231	47.951	46.871	45.133	49.332	39.63	55.57	44.082	53.316	54.703	69.967	64.189	47.701	52.413	56.597
	53.653	49.81	42.298													
iWAT-FMT-CC	20.731	16.233	25.992	22.974	19.725	23.501	18.746	21.84	14.469	35.08	33.177	30.222	28.954	31.765	27.82	33.937
	35.753	26.83	28.084	28.359	33.859	25.642	22.761	28.955	19.526	23.352	34.017	26.385	30.505	22.428	22.724	21.91
	26.474	24.299	23.677	25.977	25.182	21.178	21.973	18.999	15.074	16.994	18.261	20.465	17.424	16.344	21.242	18.806
	24.554	24.155	26.569	26.935	33.7	21.041	26.742	28.967	32.828	43.536	28.895	28.942	27.386	37.009	39.111	31.582
	24.011	21.074	25.24	30.489	28.726	27.684	32.868	21.892	25.766	24.213	33.811	25.203	30.737	25.069	32.415	
sWAT-FMT-Cor	67.018	59.325	67.056	59.842	68.412	73.06	69.309	63.253	73.472	59.235	78.174	72.618	72.201	75.102	59.265	69.607
	66.23	66.902	60.269	38.965	39.724	66.48	71.801	73.952	74.536	78.9	60.599	58.498	52.111	69.618	81.2	71.6
	63.48	48.835	68.461	63.913	67.933	68.134	67.601	73.017	75.926	58.497	69.679	56.582	60.831	62.017	61.677	64.926
	71.028	68.323	73.446	66.258	67.151	64.196	63.246	80.088	70.426	64.794	69.459	75.718	73.239	66.442		
eWAT-FMT-CC	41.677	46.876	49.335	55.455	57.738	52.57	53.773	50.98	42.833	39.077	36.081	57.119	42.923	45.48	37.389	32.174
	43.578	54.851	42.888	50.34	53.419	54.423	48.977	44.065	52.806	48.072	39.454	32.224	39.492	38.971	50.596	47.337
	48.666	52.724	54.064	41.681	33.922	50.164	31.739	37.657	42.01	33.256	41.346	48.071	31.617	49.13	49.008	51.778
	46.367	39.4	51.575	52.338	45.781	43.216	48.252	49.407	27.915	31.158	35.011	52.907	42.87	35.355		

Fig. 4d

Time	FMT-Con								FMT-CC							
1 h	17.223	18.359	17.559	20.744	19.171	19.106	19.509	20.031	19.839	23.581	21.898	19.976	23.697	23.742	23.415	19.039
2 h	16.319	17.923	15.327	18.058	18.255	19.858	18.934	20.502	23.357	20.389	21.35	19.625	20.232	25.9	22.313	22.712
3 h	18.372	16.823	16.912	19.095	17.094	19.159	18.32	17.726	18.718	18.243	20.8	17.443	20.211	21.683	24.912	21.214
4 h	15.253	17.709	16.746	17.613	17.025	18.591	17.249	19.205	20.677	17.743	21.007	18.359	21.034	22.052	21.341	21.096
5 h	16.844	16.9	14.732	17.639	17.037	17.532	17.659	19.687	19.211	19.428	19.803	17.276	19.873	23.715	23.049	20.59
6 h	16.675	17.835	15.476	18.245	17.082	18.044	19.118	16.897	19.649	20.563	19.845	18.33	19.214	21.417	21.607	23.18
7 h	15.088	15.528	14.243	15.836	16.632	18.241	17.612	18.014	18.559	20.3	19.024	17.546	20.783	18.82	20.884	21.698
8 h	16.169	18.462	16.605	17.644	19.173	19.161	18.406	20.658	19.975	17.459	22.159	17.791	19.066	22.913	21.186	23.166
9 h	15.327	16.37	14.489	14.784	16.424	16.878	17.412	16.753	20.066	19.443	17.711	21.872	18.977	17.093	22.897	20.265
10 h	15.477	16.437	17.192	13.995	17.547	16.091	18.151	17.65	20.99	25.038	18.994	17.217	20.561	21.524	21.432	19.512
11 h	15.489	14.747	16.618	14.836	17.207	16.293	15.722	18.962	18.27	17.716	17.74	17.632	17.152	18.576	21.563	17.766
12 h	14.162	15.927	16.953	13.971	17.151	17.959	16.73	19.05	21.35	18.758	19.284	20.42	18.5	20.927	24.724	17.885
13 h	15.258	16.355	14.804	14.489	17.862	15.921	17.992	19.92	19.148	23.427	19.696	20.263	22.96	18.553	21.269	22.007
14 h	13.46	17.298	16.112	13.518	15.788	15.641	17.574	17.785	19.618	18.305	23.129	18.289	19.965	20.116	25.228	17.934
15 h	17.211	16.867	16.386	17.606	15.73	18.451	19.168	18.112	19.21	20.922	19.893	21.706	20.374	21.311	22.201	22.286
16 h	14.937	18.347	17.049	16.766	14.634	19.778	21.882	18.71	22.054	21.748	20.559	22.363	22.346	22.362	26.28	19.686
17 h	16.254	18.518	17.846	19.022	16.373	21.545	21.955	21.92	22.096	22.279	21.695	25.497	23.739	22.222	25.205	23.457
18 h	15.061	19.509	18.542	19.929	17.957	22.482	23.596	22.78	22.03	21.322	21.985	24.728	23.708	21.46	24.874	20.308
19 h	19.26	18.455	21.27	19.299	19.016	21.274	22.625	20.268	20.886	21.649	21.725	23.999	23.963	22.502	22.739	24.03
20 h	16.08	19.013	16.254	18.986	21.551	20.951	21.905	20.98	20.826	22.338	22.916	24.318	21.663	23.541	22.336	19.996
21 h	17.306	17.556	18.07	19.714	22.209	22.836	19.961	19.614	22.265	19.911	19.022	23.382	23.444	20.811	23.68	21.633
22 h	15.262	18.181	16.178	20.995	18.585	18.529	20.512	19.085	22.056	20.895	20.77	24.571	23.873	22.202	23.577	22.95
23 h	17.74	18.751	16.9	20.734	21.884	21.185	21.521	19.982	21.717	19.892	22.818	21.95	21.467	21.895	22.894	22.972
24 h	17.314	18.009	17.1	20.461	20.662	18.334	22.699	19.448	20.98	20.668	21.27	20.311	24.826	23.967	22.7	22.25
Average	FMT-Con								FMT-CC							
Daytime	16.0331667	16.9183333	16.071	16.8716667	17.4831667	18.0760833	17.9018333	18.76125	20.0550833	19.8884167	19.9679167	18.6239167	19.9416667	21.5301667	22.4435833	20.6769167
Night	16.2619167	18.0715833	17.20925	18.4599167	18.5209167	19.7439167	20.9491667	19.8836667	21.0738333	21.113	21.2898333	22.61475	22.694	21.7451667	23.5819167	21.62575

Fig. 4e

Time	FMT-Con								FMT-CC							
1 h	14.15	14.052	12.17	12.8	14.445	12.244	13.774	13.492	15.145	16.442	17.834	13.776	17.794	17.473	17.882	12.813
2 h	13.344	14.469	11.255	11.307	13.892	14.73	13.99	14.036	17.635	14.096	16.724	14.338	15.213	19.803	14.44	15.679
3 h	14.885	13.619	11.502	12.935	13.071	13.502	13.67	12.452	14.139	13.709	17.014	12.658	16.759	15.56	16.129	14.43
4 h	12.626	14.094	11.552	11.671	13.119	11.578	13.63	14.233	15.105	12.871	17.331	12.697	16.534	16.926	13.495	14.042
5 h	14.443	14.031	10.706	12.335	13.316	12.337	13.219	14.565	15.181	13.042	15.183	11.587	15.762	18.546	15.546	13.952
6 h	13.688	14.726	11.205	13.217	13.34	13.598	14.407	12.394	15.26	14.804	15.17	12.239	15.486	16.386	15.001	16.173
7 h	12.083	12.499	9.782	12.366	12.772	13.032	13.199	11.964	15.534	15.348	15.608	12.619	15.213	15.407	15.742	14.598
8 h	12.513	13.896	11.415	12.617	14.881	13.8	12.143	14.543	15.226	12.695	18.553	10.508	13.753	17.47	14.839	15.588
9 h	12.275	12.433	10.178	11.348	13.151	13.108	11.379	12.2	14.162	15.978	14.19	12.896	14.381	13.087	15.866	13.89
10 h	12.448	12.636	11.144	10.487	13.649	12.646	11.354	11.681	15.765	20.061	14.159	10.217	14.208	17.614	15.711	13.058
11 h	11.078	12.092	10.184	10.784	12.156	11.677	11.04	12.039	13.653	13.985	14.153	11.02	11.834	14.595	15.908	12.503
12 h	10.472	12.133	10.802	10.719	11.938	14.066	11.554	11.454	16.893	15.706	15.118	13.102	12.631	17.003	17.341	12.791
13 h	11.109	13.197	9.509	10.631	12.184	12.036	12.594	13.011	15.758	19.772	16.982	13.347	16.529	15.159	15.439	16.257
14 h	10.113	13.4	10.824	10.349	11.499	11.074	12.283	11.469	15.228	14.988	13.814	12.12	13.932	16.126	17.661	12.917
15 h	12.827	14.592	11.036	13.326	11.203	14.286	13.51	12.511	14.592	16.774	18.559	14.097	14.994	17.374	15.655	14.76
16 h	11.488	14.792	11.025	12.281	11.301	14.186	15.498	12.815	18.02	17.862	18.63	14.888	16.438	18.851	18.724	13.454
17 h	12.255	14.318	12.421	14.825	11.814	15.582	15.679	14.948	18.359	16.726	18.471	16.579	17.615	18.351	17.578	16.048
18 h	11.71	16.341	12.293	15.373	13.258	15.93	16.769	15.294	17.955	16.26	19.629	16.13	17.535	17.19	18.252	13.394
19 h	15.503	16.354	14.75	14.97	14.021	14.775	17.042	13.327	16.473	15.447	19.771	14.936	17.461	18.492	15.901	16.939
20 h	12.607	15.06	11.499	14.747	16.61	14.006	16.248	15.029	17.913	17.023	19.334	16.098	16.626	19.42	16.072	13.634
21 h	13.326	13.889	12.591	14.645	16.607	15.765	14.825	13.716	17.946	14.901	15.806	15.942	18.167	16.088	17.174	15.099
22 h	11.946	14.384	11.71	14.259	13.659	12.252	16.115	13.672	15.315	15.401	17.36	15.947	18.38	17.146	16.707	15.839
23 h	13.368	14.254	12.79	13.965	15.711	13.827	16.409	14.298	16	14.071	18.333	15.015	16.421	16.495	16.871	16.503
24 h	14.246	13.339	12.307	12.257	15.192	11.403	15.827	14.096	14.672	14.829	17.354	14.064	19.568	17.775	16.421	15.355
Average	FMT-Con								FMT-CC							
Daytime	12.83375	13.39	10.99125	11.88217	13.31083	13.0265	12.77992	12.92108	15.30817	14.89475	15.91975	12.30475	14.964	16.65583	15.65833	14.12642
Night	12.5415	14.49333	11.89625	13.469	13.58825	13.76017	15.23325	13.68217	16.51925	16.17117	17.83692	14.93025	16.97217	17.37225	16.87125	15.01658

Fig. 4f

	FMT-Con						FMT-CC					
lody temperatur	37.6	37.7	36.9	36.8	37	36.9	37.7	38.2	38	38.1	37.6	37.7

Fig. 4g

Time	FMT-Con						FMT-CC					
0 h	37.6	37.7	36.9	36.8	37	36.9	37.7	38.2	38	38.1	37.6	37.7
1 h	36.4	35.8	35.1	35.8	35.7	36.1	35.8	36.4	35.9	37.1	36.1	35.9
2 h	36	35.8	35.1	35.7	35.9	35.8	36.7	35.7	35.7	36.3	36.1	36.6
3 h	36.6	35.1	35	35.4	35.6	35	36	35.7	35.2	35.7	35.8	35.7
4 h	35.8	34.8	33.5	35.1	34.9	33.5	35.6	35.6	35.7	35.4	35.8	35.6
5 h	36	33.8	33.7	35	35	33.7	35.7	35.4	35.4	35.9	35.4	35.8
6 h	35.4	34	33.6	34.5	34.4	34	35.4	36	35.6	36	35.5	35.6

Fig. 4h

	FMT-Con						FMT-CC					
RT	32.7	32.7	31.2	32.8	31.6	32.8	34.7	33.5	35.3	33.8	34	33.4
Cold	28.7	29.2	29.2	27.8	28.5	26.6	30.5	30.6	30.4	30.7	30.6	30.8

Fig. 4i

	RT-FMT-Con						RT-FMT-CC					
Ucp1	0.3253443	1.16343122	1.17742102	0.85240207	0.9304847	1.55091628	2.32523571	2.2201495	1.75393112	2.44756517	1.97093577	1.59939258
Ppargc1a	1.0181571	0.81656199	0.7880536	0.81045305	1.32258607	1.24418798	1.96097057	1.85813671	1.66875949	1.58323429	1.71864918	1.85915486
Prdm16	2.00422917	1.23786479	0.77799447	0.5870726	1.07671164	0.31617406	0.95782625	1.56787748	1.57013302	1.44570277	0.74940089	0.58961046
Dio2	0.6860279	1.05716899	1.13126001	0.86988338	0.9933684	1.26229134	1.16281729	1.68900069	1.69105877	1.54699291	1.76857993	1.35421907
Elovl3	0.6691947	1.13763099	0.94490292	0.99241574	0.87196069	1.38389464	1.41267001	1.42404632	1.57260755	1.21057321	1.09948689	2.07584196
Cidea	0.42709762	1.18828697	1.1200566	0.94871214	0.83184256	1.48400401	2.40366809	2.7279903	1.54134461	2.41051979	2.04894312	2.30164819
	Cold-FMT-Con						Cold-FMT-CC					
Ucp1	2.96225985	2.81097475	3.48508814	3.06637003	3.4392146	3.15681574	7.24834566	4.08502303	4.60394719	3.76065476	4.08795113	3.55406113
Ppargc1a	2.29798057	2.02409631	2.61157296	2.67368054	2.26438139	1.99864239	2.69098922	6.88477831	4.70286764	2.85796698	5.12234837	4.79246547
Prdm16	1.08601572	1.61117902	2.15520892	1.28426768	1.1174992	3.00244356	2.52123966	1.58263243	3.84523762	2.10389554	2.39337912	3.37923507
Dio2	2.67893895	2.96912875	2.99176767	2.81271439	3.12485708	3.61193689	3.89801053	5.04710726	4.23965242	5.92728106	4.76103363	4.87217015
Elovl3	4.61008229	2.80794096	3.93084967	3.06892689	2.58643752	2.93709554	7.03055952	6.44300657	5.30403719	6.42962268	5.15079161	4.02453693
Cidea	1.75919201	1.92785311	2.06600723	2.53627313	1.84753458	2.0889591	3.72659216	2.829956	3.48253638	3.7818486	3.33440431	5.21583263
	RT-FMT-Con				RT-FMT-CC		Cold-FMT-Con		Cold-FMT-CC			
Ucp1/Tubulin	0.97269605	0.81272561	1.21457834	1.59131938	1.69888302	1.52474309	2.86754414	3.67142243	3.37142368	8.75122599	7.39369443	6.55461253

Fig. 4j

Fig. 4k

	RT-FMT-Con						RT-FMT-CC					
Ucp1	0.87035302	0.98094346	0.73289597	2.0918463	0.49671978	0.82724149	2.19431428	1.53701969	3.7613246	2.69540769	1.29959388	6.8666042
Ppargc1a	0.55508217	0.45283019	1.08825321	1.42057214	1.31832016	1.16494219	1.43517957	1.75289107	1.64333538	1.70541694	1.95739503	1.51552041
Prdm16	0.952986	1.60578141	1.0073062	0.52509529	0.76143581	1.14739514	1.41041928	2.02128331	0.42121981	1.09021598	1.3341804	1.24078777
Dio2	0.50212766	0.5787234	2.1787234	0.15319149	2.54468085	0.04255319	2.56170213	2.78297872	2.08510638	1.80425532	2.66382979	1.68510638
Elovl3	0.4723618	0.52261305	0.58291456	1.68844217	0.79396983	1.93969844	1.33668338	1.87939694	3.0150753	4.09045216	5.5175878	0.91457284
Cidea	1.2994116	0.34024615	0.9415352	1.7156273	0.88753702	0.8156428	1.59292429	2.67328665	2.19859876	1.67801905	1.8477656	1.84581653
	Cold-FMT-Con						Cold-FMT-CC					
Ucp1	34.6185568	30.5798189	23.3464543	26.5654484	30.9172134	38.6054359	145.576383	98.6972823	38.8191191	45.4789129	117.270853	153.059044
Ppargc1a	2.59281804	3.24650034	3.87096778	3.6518564	2.71332931	2.09251372	5.51795502	10.9007914	6.51491182	6.6500305	10.9482655	3.94400491
Prdm16	0.6537484	1.10641675	0.51556543	1.26365944	0.45076238	0.99110544	0.96918676	0.85482844	1.07496821	1.17121979	0.95679794	0.86626427
Dio2	6.40851064	6.79148936	12.6978723	13.5319149	8.5106383	15.4553192	57.9148936	50.8170213	45.7446809	40.5276596	31.0808511	55.6595745
Elovl3	5.58793956	7.5075375	9.32663293	7.78894453	10.050251	11.9195977	14.2211052	15.7788941	14.8643212	18.0804015	52.6231142	39.8291447
Cidea	3.08201614	2.84892472	3.15169551	3.48330372	3.06863841	2.86593481	4.81731137	4.19989816	5.91051989	3.97588765	6.65267377	3.65544231
	RT-FMT-Con				RT-FMT-CC		Cold-FMT-Con		Cold-FMT-CC			
Ucp1/Tubulin	1.30326385	1.06055206	0.6361841	3.65010671	2.87736492	2.93381229	2.93653987	3.9811008	3.34244261	7.99392841	9.15549778	11.0451393

Fig. 4l

Fig. 5a				HFD-Con								HFD-CC				
TCA	12.47421	50.92177	53.43215	53.67484	46.4588	56.4627	44.50022	54.96695	26.81721	17.39655	31.84331	21.25097	35.94952	15.63986	18.43761	21.50537
T-β-MCA	5.852951	12.05137	18.18587	5.538526	6.78689	13.89463	7.658133	6.849326	3.966525	6.297949	5.32911	3.689658	8.962433	15.86922	9.804128	6.773189
T-α-MCA	1.022927	4.970094	8.004468	7.265506	7.529249	9.611735	6.63074	6.89794	2.897918	0.811293	1.60956	1.051565	1.970414	2.162923	3.105055	3.210307
TUDCA	0.480068	1.597891	2.747988	3.239861	3.922253	4.097661	2.867378	2.381238	1.368096	1.859629	3.155459	1.985949	3.174831	6.725099	9.868432	3.934945
TCDCA	0.310708	0.770827	3.069057	4.489588	4.45658	4.445647	3.200548	3.06083	0.647395	0	0	0	1.133036	0	4.73545	5.291167
CA	0.827576	1.346599	1.661753	0	1.630852	0.328821	0.825004	0	9.801178	2.59855	1.787832	3.131195	0	0	0	0
β-MCA	45.38355	2.461109	1.277518	0.491094	1.293361	0.761696	3.072706	0.790904	11.00255	22.2178	2.725438	4.22211	5.956341	17.32643	15.08929	3.783129
α-MCA	0.98353	0.230375	0	0	0.405742	0.26861	1.342667	0.208581	0.657464	1.501573	0	0.570051	0	1.311804	1.491611	0
TDCA	1.794045	10.30321	5.27536	14.51806	12.14751	3.952644	17.25065	15.38982	6.501371	7.582856	12.50697	11.48423	10.80927	9.618519	12.79459	12.46879
THDCA	1.030421	2.723038	2.008161	5.354939	4.58842	2.138973	1.799152	1.913561	2.162087	1.09462	2.668136	1.598075	2.249389	2.156573	2.789487	2.820284
DCA	7.094243	9.138511	3.15095	4.232238	9.130704	2.265337	8.416347	5.776971	24.55699	28.17331	30.22175	41.38455	25.9404	23.34299	15.77919	34.434
ω-MCA	3.499369	1.553869	0.852235	0.517441	0.521754	1.075571	0.876494	0.770426	3.368234	6.265843	5.238771	4.812991	2.059201	2.801762	2.298364	1.998365
HDCA	0.795671	0.477294	0.186831	0.297583	0.496686	0.289969	0.294154	0.288397	1.327022	1.055692	1.517915	1.695222	0.888567	1.04063	1.51516	1.161444
LCA	0.233899	0.322333	0.147651	0.380327	0.451237	0.246749	0.327588	0.391256	0.769329	1.084838	1.395759	1.024747	0.906601	2.004195	1.501368	2.619024
Fig. 5b			HFD-Con						HFD-CC							
Cyp7a1	0.84036229	1.04620861	0.62640196	1.05694408	1.02386386	1.40622122	0.124831	0.21321135	0.32131499	0.36575483	0.54588596	0.37311986				
Cyp7b1	0.74087445	0.4314804	1.60926534	1.35293527	0.41160027	1.4538443	4.27727613	2.00840658	2.67959497	2.96847537	3.91566279	5.79917747				
Cyp8b1	1.3831259	1.13692949	1.09958509	0.98063626	0.966805	0.43291841	0.81466116	0.26832642	0.56293224	0.07883818	0.74412173	0.1922545				
Cyp27a1	1.23601814	1.41999568	0.58561866	0.76700497	1.10516087	0.88620169	1.2956165	1.27359102	1.46663788	1.0442669	0.90952278	0.4236666				
Akr1d1	0.49858845	0.81599468	0.85693815	2.27195642	0.71837571	0.8381469	1.04949402	0.6020493	1.45450337	1.76043537	0.49428037	0.97319751				
Fig. 5c		HFD-Con				HFD-CC										
Cyp7a1/Tubulin	0.90016	1.060237	1.097514	0.942089	0.569778	0.567437	0.691507	0.747269								
Cyp7b1/Tubulin	0.639962	0.974924	1.138896	1.246217	3.032868	2.568132	3.507246	4.020072								
Cyp8b1/Tubulin	1.01293	0.67943	1.559164	0.748475	0.169937	0.115502	0.282657	0.330613								
Fig. 5d		HFD-Con-Abx				HFD-CC-Abx										
Cyp7a1/Tubulin	0.702615	1.21659	1.091864	0.988931	1.015426	0.808764	1.475092	1.706072								
Cyp7b1/Tubulin	1.052764	1.16946	0.949829	0.827949	0.988885	0.968824	1.01058	0.790781								
Cyp8b1/Tubulin	1.595798	1.166947	0.596628	0.640628	1.134115	1.034271	0.854872	0.55854								
Fig. 5e		FMT-Con				FMT-CC										
Cyp7a1/Tubulin	1.02177204	0.91177303	1.08065511	0.98579982	0.63674693	0.54647312	0.59071165	0.42151877								
Cyp7b1/Tubulin	1.24630276	0.74895055	0.90359205	1.10115466	2.02768903	2.30276013	2.77184057	3.73921403								
Cyp8b1/Tubulin	1.13915385	0.88568882	0.96437058	1.01078675	0.5880138	0.60282889	0.58894949	0.50106348								
Fig. 5f				FMT-Con								FMT-CC				
TCA	31.91872	25.71858	26.83209	34.66087	34.68151	33.46517	28.3031	23.13881	21.88379	26.43222	22.49373	17.58417	10.87721	19.4918	17.77146	15.15364
T-β-MCA	3.2098	1.455437	2.864332	4.278515	1.918557	2.981265	2.501576	2.506506	4.657733	3.199247	2.661915	2.1636	1.912269	2.671788	2.088653	1.11595
T-α-MCA	4.78978	2.076051	3.234178	4.343296	3.019208	5.272459	4.784981	3.223794	4.087115	4.11419	2.062863	3.134133	1.303346	2.333092	2.285233	1.506245
TUDCA	2.415482	2.329216	2.774327	2.432346	2.630819	1.467509	1.531474	1.896943	1.836467	3.15042	2.146696	1.520414	2.592757	5.05796	2.456061	2.561997
TCDCA	3.418353	3.016651	2.027227	4.536874	3.000263	3.751933	2.829245	3.023476	3.86775	5.287751	2.79643	3.057021	2.874552	4.763513	3.042933	3.287624
CA	0	1.444098	1.662876	0.554849	0	2.423177	0	0	10.4909	0	0	0	0	0	0	0
β-MCA	1.093003	1.331291	1.652373	0.682553	0.66417	1.408704	0.498468	0.9944	3.508241	0.901492	1.082602	1.813618	3.080577	1.410837	1.252578	1.53973
α-MCA	0.680036	0.393978	0.681308	0.339862	0.247208	1.119176	0.299962	0.366296	2.007773	0.836821	0.935464	1.396552	0.877342	0.580314	0.695781	1.872058
TDCA	26.59348	33.69872	33.17906	31.61676	34.56097	15.43381	34.15478	42.42381	8.444553	20.17321	22.33476	21.93405	29.8145	34.08303	24.01967	31.50393
THDCA	8.319208	8.643895	5.672196	6.598333	5.600713	7.384777	10.17998	8.555532	4.811569	6.116749	6.158543	7.448714	8.813718	6.249255	7.561034	7.126224
DCA	13.55313	15.83623	15.24731	7.654167	10.993	17.86407	11.08241	11.52536	27.73044	22.6166	29.00096	28.79893	24.43984	18.35657	30.40582	24.10894
ω-MCA	1.439289	1.28178	2.063177	0.855666	0.8687	2.263461	1.085356	0.376	1.77719	1.946544	2.617813	3.846442	4.278626	1.85236	2.515285	3.41445
HDCA	1.633016	1.569947	1.184704	0.821798	0.915834	2.971524	1.431763	0.81164	3.042679	2.713773	3.289032	3.709239	4.703681	1.285213	2.716396	3.429755
LCA	0.936697	0.884295	0.92485	0.505262	0.899043	0.872003	0.772051	0.937733	1.853803	2.510977	1.820737	1.962465	2.319858	1.86428	1.889579	1.549426

Fig. 6b				*Gpbar1*-Con								*Gpbar1*-CC								
TCA	30.39	47.79	32.72	41.67	36.69	60.62	47.61	32.93	28.19	30.38	30.59	27.17	26.82	37.25	20.58	15.14				
T-β-MCA	3.65	3.68	3.71	3.82	2.67	5.32	1.81	3.05	7.8	6.1	9.51	4.34	1.44	3.27	1.6	2.07				
T-α-MCA	7.12	7.78	5.6	10.57	5.02	8.42	4.77	5.64	7.3	5.42	6.85	5.74	2.14	6.48	2.89	2.65				
TUDCA	3.69	1.27	5.36	1.48	6.92	1.47	2.63	8.82	6.11	4.94	6.01	3.83	6.7	4.76	8.31	4.66				
TCDCA	10.65	5.88	9.8	18.73	27.56	7.98	5.78	13.76	21.16	6.84	8.88	12.14	6.67	9.08	8.35	9.29				
CA	0	1.29	0.3	0.16	0	0.04	1.46	0	1.04	3.31	1.87	4.49	0.36	1.73	0.65	0.51				
β-MCA	0.66	0.41	0.73	0.28	0.39	0.13	0.49	0.4	2.37	2.67	2.45	4.23	1.14	1.37	1.19	1.31				
α-MCA	0.45	0.19	1.05	0.23	0.19	0.05	0.28	0.14	1.55	0.94	0.65	1.14	0.34	0.65	0.51	1.2				
TDCA	29.1	21.96	28.45	16.29	16.1	13.99	27.34	30.71	10.79	24.06	20.31	14.78	37.26	12.74	38.75	29.94				
THDCA	4.61	1.44	2.77	0.39	0.77	0.3	0.72	1.32	0.67	0.39	0.72	0.4	0.54	0.87	0.89	1.66				
DCA	5.76	6.45	4.93	4.94	1.94	1.35	5.25	1.86	9.23	10.35	7.58	14.16	12.5	15.3	11.91	22.27				
ω-MCA	1.18	0.45	2.8	0.47	0.66	0.09	0.5	0.54	1.43	2.01	1.72	1.21	1.66	1.38	1.34	2.27				
HDCA	1.01	0.49	1.06	0.17	0.21	0.06	0.27	0.18	0	0.39	0.27	0.27	0.64	1.63	0.75	1.89				
LCA	0.94	0.19	0.53	0.37	0.33	0.05	0.26	0.28	1.12	0.71	0.7	1.72	0.88	0.99	0.81	3.44				
Fig. 6c																				
Time				*Gpbar1*-Con											*Gpbar1*-CC					
0	23.26	24.91	25	24	25.25	23.36	23.4	23	24.2	24.62	23.87	24	25	25	23.26	24.21	25.33	21.68	23.6	24.3
1	26.45	26.45	27.7	26.35	27.65	24.97	25.25	24.6	26.14	26.24	24.83	24.83	31.69	27.82	24.72	26.61	27.1	25.12	25.4	28.99
2	27.15	29	30.68	28.93	31.32	26.19	28.3	26.98	27.32	28.13	26.4	27.3	37	29.42	26.98	28.08	28.68	28	28.63	33.13
3	29.98	32.58	33.58	30.7	34	27.74	31.11	28.49	28.61	29.26	28.87	29.13	42.12	33.57	28	28.8	30.48	29.12	30.15	34.72
4	32.12	35.05	36.96	32.5	35.38	28.35	32.94	30.31	30.45	31.6	30.95	30.95	46.09	35.58	29.47	30.16	33.22	31.5	32.75	36.56
5	34.74	38.42	39.55	35.5	40	30.67	36.04	32.34	33.11	34.34	32.3	33.21	47.6	37	30.67	31.77	36.28	35.38	35.44	41.5
6	37.8	41.37	43.37	39.15	44.01	32.99	37.98	34.03	35.53	36.51	35.23	36	49.15	39.81	33.12	33.72	38.84	37.33	37.8	42.92
7	39.86	43.97	45.95	41.18	46.71	34.17	40.09	35.77	38.52	38.62	36.02	37.37	51.85	42.47	35.42	35.78	42.01	39.17	39.88	45.71
8	41.72	46.17	48.07	43.23	47.31	35.72	41.27	36.55	41.05	41.06	37.39	37.96	57.97	44.44	36.94	37.49	44.54	40.86	41.52	47.89
9	43.25	48.4	50.43	44.95	48.23	38.49	42.74	37.56	43.53	44.32	38.71	40.16	57.38	46.52	38.98	39.11	47.46	42.68	43.36	49.63
10	45.24	49.23	50.76	46.93	50.04	40.35	44.15	38.75	45.15	46.01	39.89	41.28	56.06	47.49	41.08	41.82	48.72	42.46	45.34	50.63
11	46.74	49.6	50.51	47.12	48.92	41.83	44.73	40.37	46.62	48.36	41.49	42.1	60.06	48.02	42.42	44.16	49.63	43.62	45.95	50.55
12	48.48	50.97	51.21	46.94	48.57	43.35	45.63	41.51	48.32	50.41	42.41	43.04	55.9	49.19	41.98	46.58	51.63	45.55	46.75	51.4
Fig. 6d				Gpbar1-Con								Gpbar1-CC								
Iodv temperatu	37.1	38	37	38	36.3	37.6	37.2	37.2	37.5	37.6	37.4	37.4	37	37.1	36.3	36.8				
Fig. 6e																				
Time				*Gpbar1*-Con								*Gpbar1*-CC								
0 h	37.1	38	37	38	36.3	37.6	37.2	37.2	37.5	37.6	37.4	37.4	37	37.1	37.1	37				
1 h	34.3	35.7	35.7	35.3	34.6	34.8	34.4	35.8	34.9	35.1	34.8	34.7	34.3	34.6	34.1	34.8				
2 h	35.4	34.4	35	34.5	34.2	35.3	33.8	35.5	34.9	35.1	35.3	34.6	33.4	34.4	33.5	34.1				
3 h	34.4	35.4	36	34.8	34.4	33.7	34.7	34.7	34.2	34.8	35.4	34.4	34	34	34.4	34.1				
4 h	34.4	34.2	34	36.6	34.5	33.9	35.1	35.8	34.8	35.8	34.7	34.6	35.4	34.5	34.2	33.4				
5 h	34.5	33.8	34.2	35.8	33.4	33.8	35.3	35.4	34.3	34.4	34.1	34.1	34.1	34.1	34.4	33.8				
6 h	34.4	34.8	33.6	34.4	33.8	33	34.3	34.6	33.6	34.8	34	34.4	34.1	33.6	34.4	33.6				
Fig. 6f				*Gpbar1*-Con								*Gpbar1*-CC								
RT	35.8	33.5	33.6	33.1	34.4	33	33.1	33.5	34.8	33.9	33.7	33	34.6	34.5	33.5	33.3				
Cold	28.8	29	28.7	29.2	28.6	29.4	28.7	30.3	27.3	27.8	27.2	32.2	30.3	29.4	29.9	30.4				
Fig. 6g			RT-*Gpbar1*-Con						RT-*Gpbar1*-CC											
Ucp1	0.93932031	0.8336871	0.73728223	0.72321572	1.2799372	1.48655746	0.91734379	0.55048819	0.79866801	0.68041462	1.24078392	1.33651042								
Ppargc1a	0.65203217	0.98522061	0.8430776	0.80330363	1.31058466	1.40578136	1.11823517	0.90893284	1.58117801	1.40708542	1.38556836	2.46598567								
Prdm16	0.74925075	1.31043956	1.04145854	1.16883117	0.81968032	0.91033966	1.21753247	1.0467033	1.09765235	1.04370629	0.91333666	1.0939061								
Dio2	1.17261523	0.96122857	1.04841589	1.29796313	0.63203063	0.88774654	0.64043189	1.29051685	1.13769384	1.50378766	1.02130213	1.3113716								
Elovl3	1.35043694	0.50213831	0.72670622	0.75733736	1.0733844	1.58999676	0.9220671	0.71855	0.3018837	0.13288165	2.17434459	1.17527241								
Cidea	0.16567721	0.65442498	0.69054261	1.18094715	1.00284415	2.30556405	0.19549911	0.12641171	0.95893969	1.02438219	1.34264811	1.94256529								
			Cold-*Gpbar1*-Con						Cold-*Gpbar1*-CC											
Ucp1	2.53874264	3.19386569	2.53463404	1.80039806	2.95090801	2.45101574	2.13862147	2.18194734	2.99364512	1.99617726	2.03725044	1.56747509								
Ppargc1a	3.24125192	7.3614432	9.48119978	3.98196046	4.61638776	5.88459033	3.89589222	14.694197	13.377092	2.55486204	5.01412739	4.54140406								
Prdm16	0.65709291	0.69380619	0.42707293	0.48176823	0.31843157	0.501998	0.51698302	0.42032967	0.85714286	0.75449551	0.20829171	0.26523477								
Dio2	2.74281289	2.56750908	2.71274385	1.89766631	1.8254877	2.03268019	2.74325167	1.88125094	1.53754759	2.18845847	2.76386122	1.05188738								
Elovl3	7.05888445	18.3173935	9.3335117	8.01098716	6.3866307	17.2134297	4.5617866	11.1330327	10.4172791	7.41371884	5.25692955	14.53907								
Cidea	3.87237343	3.44625165	8.06235007	10.7082151	3.5178242	4.04765992	3.83062277	5.89131591	6.67646021	6.8481018	4.29021135	4.44793606								
Fig. 6h		RT-*Gpbar1*-Con			RT-*Gpbar1*-CC			Cold-*Gpbar1*-Con			Cold-*Gpbar1*-CC									
Ucp1/Tubulin	0.805108	1.065251	1.129641	1.006706	1.583296	1.578883	3.455025	2.537473	2.750735	3.181828	2.95488	2.141289								
Fig. 6i			RT-*Gpbar1*-Con						RT-*Gpbar1*-CC											
Ucp1	0.56786753	0.17305413	1.36740778	1.12463633	2.14841421	0.61862002	1.82299486	1.36196617	1.25232571	1.13778241	1.20997809	1.52979419								
Ppargc1a	1.31521263	0.76282333	1.27838668	1.21262604	0.63261728	0.79833407	0.82463832	0.60894345	0.57343271	0.71153003	0.97983341	1.35861465								
Prdm16	0.69524913	0.38447277	1.2410197	1.08945539	1.54484357	1.04495944	1.22988571	2.15457705	0.7765928	0.78076477	0.96152955	0.84889919								
Dio2	0.55578093	0.26369168	1.11697092	0.9979716	1.42528735	1.64029749	0.72210953	0.53144016	0.76808654	1.35226504	1.30899256	1.54563894								
Elovl3	0.27247904	0.48250827	0.82431173	0.810434	1.8875004	1.72276655	0.26213499	0.2014199	0.87493977	0.71682354	1.00485078	2.52677567								
Cidea	0.87445353	0.49657934	1.45923577	0.93719339	1.35708326	0.8754547	0.8913399	0.70358752	0.97947605	1.28326381	0.69451026	1.05229434								
			Cold-*Gpbar1*-Con						Cold-*Gpbar1*-CC											
Ucp1	8.27270931	10.7482131	18.7618261	10.3394454	9.16701986	15.8861751	6.85309436	12.6584893	19.0524406	8.56747243	8.77694767	14.5364391								
Ppargc1a	1.60587462	2.37658922	3.92327928	2.85269619	1.57299431	1.76633056	1.65848313	3.15256467	1.645331	1.68610259	3.41166156	1.58220079								
Prdm16	0.54785631	0.50266512	0.12375435	0.1188876	0.11332561	0.27949015	0.21900348	0.25098494	0.2801854	0.26975666	0.4400927	0.5603708								
Dio2	3.102096	3.48613927	2.18796483	4.08384042	5.4888438	8.23664636	2.78701825	2.69506422	3.3495605	2.41108857	5.05070992	9.0899256								
Elovl3	4.4937518	5.33669568	6.42487712	8.54174563	7.05708503	7.12069131	3.89103408	3.40801182	7.47540878	10.392817	6.56326897	7.61662758								
Cidea	1.71847155	1.83710996	2.93852828	3.92387785	2.28186217	1.78414817	1.66324044	2.61284832	2.03564158	2.60807609	3.33722676	5.58107792								
Fig. 6j		RT-*Gpbar1*-Con			RT-*Gpbar1*-CC			Cold-*Gpbar1*-Con			Cold-*Gpbar1*-CC									
Ucp1/Tubulin	1.540091	0.921803	0.538107	0.497545	0.340854	0.767426	2.344176	2.97491	3.072506	2.067377	2.919652	1.638989								

Fig. 7a			HFD-Con						HFD-CC			
BAT	231.84	280.25	214.59	272.53	174.21	187.2	291.2943	362.0886	330.7174	367.6838	360.0132	333.1188
iWAT	14.66	23.84	24.91	33	31.03	29.96	32.82014	49.47994	43.55799	36.60578	38.40841	44.78078
Fig. 7b			FMT-Con						FMT-CC			
BAT	288.1772	197.9632	441.8047	396.3357	366.4367	268.0974	529.1075	475.4296	678.8718	465.5749	463.8601	498.276
iWAT	28.84441	48.5284	44.91775	41.20112	37.04585	43.77522	67.01586	52.84303	56.20473	97.03588	56.19606	74.44522
Fig. 7c		HFD-Con				HFD-CC						
BAT-pCreb/Creb	1.416695	0.715187	0.83169	1.036427	2.983998	4.218773	3.294331	4.99953				
iWAT-pCreb/Creb	0.694715	0.651427	1.384618	1.269239	6.627914	9.137518	4.010954	3.477727				
Fig. 7d		FMT-Con				FMT-CC						
BAT-pCreb/Creb	1.425015	1.009526	0.640618	0.924841	12.60882	18.20298	11.55112	8.183176				
iWAT-pCreb/Creb	0.566117	1.257683	0.766264	1.409936	2.050591	1.499598	1.510347	2.786003				
Fig. 7e			HFD-Con						HFD-CC			
Cd137	0.29290144	0.79594282	1.42483443	1.38752882	1.13055462	0.96823778	0.7265454	2.9964342	3.14559669	2.80142626	5.45956304	3.14288792
Tmem26	0.52549873	0.63117971	0.79160989	1.1570725	1.55334538	1.34129383	0.80045153	2.462852	2.56262213	2.09019786	1.602233	1.15948609
Fig. 7f			FMT-Con						FMT-CC			
Cd137	1.15711095	1.10349963	0.70141474	1.35815339	1.15711095	0.52271035	4.46760983	3.83767684	6.11169025	2.48845868	6.07148176	3.73492182
Tmem26	1.05998357	1.07477403	0.9441249	1.52588332	0.5398521	0.85538209	2.46507806	2.11503698	2.20870994	4.84387839	4.14872637	5.7189811
Fig. 7h												
BAT			HFD-Con						HFD-CC			
Nrf1	1.47311564	1.07979376	0.87355757	0.63638596	1.01350356	0.92364351	1.48284011	1.94156641	1.47016941	1.23594402	1.17260005	1.59391112
Tfam	1.35226504	0.57471264	1.14401622	0.89790399	1.11832319	0.9127789	1.8837052	2.91683569	2.04868154	3.36308315	1.94455713	3.04259634
Tfb2m	1.62381597	0.47902571	1.62868742	0.58782138	0.97753721	0.70311232	1.50690122	2.98294994	2.27334236	2.94235454	1.70175914	4.61975643
iWAT												
Nrf1	0.9059339	0.97025521	0.51094672	0.81896425	1.4431527	1.35074744	1.26468372	1.17499627	1.95772316	1.22844637	1.4884494	1.93779261
Tfam	1.0051935	0.85642486	0.73479645	0.76595745	1.38917742	1.24845033	1.31278271	1.3137879	2.08979729	1.46456693	1.18210756	2.07874016
Tfb2m	0.9923917	0.86635795	0.42970561	0.84154816	1.34072119	1.52927561	1.38438642	1.6503474	3.05160448	1.36652337	1.78828984	2.5226597
BAT-mtDNA	0.82349127	1.07981463	0.77801764	0.89815586	1.03859954	1.38192106	1.47354616	2.23252558	1.53217856	2.20763739	1.49330641	1.60463283
iWAT-mtDNA	0.756765	0.89244856	0.89196462	1.11523051	1.17843457	1.16515658	1.41140943	1.39970422	1.22995359	1.35963836	2.15865702	1.84459264
Fig. 7i												
BAT			FMT-Con						FMT-CC			
Nrf1	0.81171548	1.05020921	1.34309623	0.9790795	0.82845188	0.9874477	4.18410042	4.83263599	3.66108787	3.41841004	5.67364017	3.73640168
Tfam	0.64888952	1.34423665	0.96859371	1.02965228	0.53265069	1.47597715	2.8541563	4.32994384	3.92083246	4.7405722	3.88049019	4.48884782
Tfb2m	1.1846238	1.90119253	0.60473551	0.92592208	0.61860565	0.76492044	2.77685265	4.18273431	4.60473551	3.2512614	4.07080419	2.70476112
iWAT												
Nrf1	0.86592654	1.03330485	1.02818102	1.17164814	0.92058068	0.98035865	1.7079419	1.85653285	1.88385992	1.85140902	1.46712209	1.43979502
Tfam	1.01047339	0.83452031	1.00041893	0.91746962	0.95517385	1.28194385	2.5136154	1.63636363	1.83996647	2.16673647	2.05362378	1.82488478
Tfb2m	1.09385548	0.5003376	0.89534097	1.02700876	1.2194463	1.26401078	2.0256583	2.7933828	1.93652933	1.70560429	4.41390944	2.09250502
BAT-mtDNA	0.8624052	1.01625136	1.72047671	0.78656555	0.75189599	0.8624052	2.16684724	2.87757313	2.13001084	2.21668473	3.18743229	1.33911159
iWAT-mtDNA	0.96764559	1.59880538	0.78745645	0.88302638	0.90890991	0.8541563	2.89795918	1.27327028	1.87954206	1.32702837	1.75510204	2.33349925

Fig. 8a												
			Gpbar1-Con						*Gpbar1*-CC			
BAT	592.2725	414.1178	317.3659	302.8417	565.5148	308.5557	570.5156	360.0213	388.1713	407.4585	438.5033	309.8549
iWAT	67.53506	66.15879	61.78496	58.63239	46.1748	45.08633	58.58763	48.48331	68.77866	54.01099	58.03902	54.59483
Fig. 8b		*Gpbar1*-Con				*Gpbar1*-CC						
BAT-pCreb/Creb	1.689858	0.737507	0.656053	0.916582	0.873065	0.90035	0.847821	0.890319				
iWAT-pCreb/Creb	1.255673	1.076159	1.329494	0.338674	0.863892	0.798936	1.191068	1.170432				
Fig. 8c			*Gpbar1*-Con						*Gpbar1*-CC			
Cd137	0.65645514	0.82319475	1.06608315	1.35164113	0.87768052	1.22494529	0.77199124	1.84857767	0.81334792	0.24026258	0.87111597	0.54157549
Tmem26	0.66956813	0.75929026	1.130231	1.39671912	1.39069301	0.65349849	1.20723134	0.60997657	1.1282223	0.62470707	1.14027453	0.64948109
Fig. 8d												
BAT			*Gpbar1*-Con						*Gpbar1*-CC			
Nrf1	1.48980387	0.81215273	0.69285951	0.72569656	1.17767732	1.10180999	0.84204586	0.96166489	0.82533643	0.61604966	1.11749544	2.03545517
Tfam	1.04742681	0.97432333	0.88618604	1.0683845	0.88433483	1.13934447	0.80493722	0.73699765	0.64674608	0.58599702	1.29148506	1.46815911
Tfb2m	0.64017054	1.04074156	1.12204429	1.3125	0.85401171	1.03053189	0.77157457	0.61787786	0.65789437	0.64369865	1.28526379	1.75169293
iWAT												
Nrf1	1.22217204	0.9126677	1.17699647	0.96331283	0.888643	0.83620796	0.94157008	0.84677626	0.67669221	1.07666892	0.71311078	1.50280253
Tfam	1.20850304	0.83196017	1.07986236	1.14371556	0.96413557	0.77182335	1.14417751	1.14586441	1.116886	1.04121928	0.51904731	1.44991195
Tfb2m	1.25152973	0.49129869	1.32881534	1.23719838	1.14045087	0.55070704	1.15337139	1.15439113	1.28638908	1.02808863	0.28969791	1.40306492
BAT-mtDNA	0.84638374	0.77585176	1.26479378	0.65750149	1.19545726	1.26001195	0.69456067	0.79736999	1.13329348	1.40107591	1.31380753	1.33293484
iWAT-mtDNA	1.36892539	0.74332649	1.04449007	1.21560575	0.92813141	0.69952087	1.49760438	0.70499658	1.05954825	1.26762491	0.85284052	0.5338809

Fig. S1a				HFD-Con								HFD-CC			
ALT	265.3	101	186.6	114.1	148.9	160.2	180.8	67.3	53.8	43.2	55.1	87.3	23.6	49.1	114.4	203.3
Fig. S1b				HFD-Con								HFD-CC				
AST	172.8	218.5	143.2	151.7	160.4	241.5	133.5	203	126.9	189.2	138.7	133.3	124.7	132.2	96.3	121.4
Fig. S2a				HFD-Con								HFD-CC				
Food intake	3.14285714	2.98571429	3.01428571	3.15714286	3.17142857	3.11428571	3.38571429	3.05714286	3.24285714	3.41428571	2.92857143	3.21428571	3.04285714	3.1	3.4	3.32857143
Fig. S2b				HFD-Con					HFD-CC							
xcal energy conte	4.453241	4.683803	4.454653	3.986445	3.5577227	4.678176	4.681389	4.452216	3.34243318	4.03030511						
Fig. S2c				HFD-Con								HFD-CC				
Daytime	1124	1218	607	404	308	826	496	315	1136	657	419	562	785	411	833	329
Night	2804	1914	2301	1249	814	1735	1372	914	2087	1756	1246	1557	2099	849	1690	1143
Fig. S2d				HFD-Con								HFD-CC				
RER	0.7521371	0.7325272	0.7497917	0.848568	0.8890141	0.8717273	0.8611339	0.8283297	0.7389488	0.6439358	0.6581664	0.796674	0.7854224	0.7667367	0.7769974	0.7406361
Fig. S3a				*Ucp1*-Con					*Ucp1*-CC							
BAT	0.214	0.457	0.6482	0.236	0.7356	0.3675	0.37	0.6516	0.437	0.364	0.5271	0.451				
iWAT	2.286	2.18	2.776	1.91	2.728	2.14	2.74	2.871	1.736	1.372	2.23	2.302				
eWAT	1.834	2.0924	2.086	1.92	1.952	2.098	1.924	2.176	1.872	1.924	2.49	1.8092				
Liver	1.277	1.5957	1.6785	1.205	1.3671	1.5931	1.14	1.6888	1.2144	1.388	1.297	1.7354				
Fig. S3c																
	63.487	62	57.229	60.851	38.236	43.653	49.691	57.212	49.631	51.398	62.715	57.695	40.03	66.943	49.701	36.611
	46.414	63.675	69.952	73.414	43.211	66.934	65.057	61.469	48.676	54.247	56.282	50.97	46.167	57.908	38.088	42.352
	41.167	53.523	43.503	55.553	40.601	43.254	42.528	38.895	38.332	43.367	43.86	37.203	38.706	35.95	48.567	40.1
iWAT-*Ucp1*-Con	54.493	39.743	47.487	36.912	36.503	35.152	36.122	38.504	41.359	35.892	53.859	48.549	48	67.538	57.865	54.056
	38.517	49.462	41.943	36.821	36.708	53.287	41.683	43.154	40.111	41.2	52.54	42.322	55.981	46.582	77.733	44.953
	38.502	46.828	47.078	52.137	39.818	42.808	48.258	58.201	54.272	69.533	37.922	51.342	42.737	41.939	50.997	46.502
	64.096	62.216	39.521	38.601	38.771	39.858	55.734	38.157	42.981	46.882	66.562	38.87	42.422	38.789	64.806	38.063
	69.539	51.833	62	60.553	39.063	42.852	45.812	37.952	61.848	50.277	53.922	68.467	70.468	61.184	58.372	44.322
	48.638	52.507	78.246	53.256	57.528	54.258	43.6	50.442	48.643	48.783	54.139	59.44	54.652	43.523	55.477	52.668
	47.935	67.094	66.79	62.67	57.089		51.636	45.794	32.694	37.063	35.5	53.932	54.871	35.196	52.623	56.82
	50.48	37.611	43.326	43.932	44.436	65.781	49.787	55.591	47.216	60.946	41.811	34.519	44.537	41.333	43.215	61.647
	47.198	57.016	41.295	39.527	43.56	42.599	44.388	68.3	56.74	52.394	56.318	48.875	53.666	50.344	68.969	51.632
iWAT-Ucp1-CC	37.201	49.194	57.534	54.479	36.23	49.526	50.822	50.555	62.606	59.779	67.271	46.19	40.864	51.396	53.701	59.204
	45.291	36.815	45.889	62.701	58.671	50.183	36.446	50.09	49.016	46.736	65.13	52.432	42.673	44.551	49.93	57.677
	53.782	46.282	41.899	47.774	47.369	43.665	50.915	43.257	50.293	49.431	49.171	66.69	50.761	47.656	62.214	58.365
	60.388	69.941	63.327	87.326	54.773	38.185	25.649	35.51	34.203	50.685	36.001	41.374	53.034	36.916	46.027	35.547
	34.604	33.186	40.415	27.71	43.613	36.384	36.09	33.399	36.251	39.665	52.093	53.19	45.81	55.335	51.949	
	57.872	70.336	56.996	84.307	76.135	66.33	68.315	65.61	55.412	46.282	42.496	44.673	51.869	65.727	51.466	59.585
	51.637	51.652	76.628	82.528	59.914	79.412	66.688	61.781	43.083	47.574	48.979	72.286	57.747	60.607	54.135	62.073
	57.97	51.088	55.66	56.445	68.325	60.125	56.107	61.508	59.637	60.611	59.674	68.199	66.404	50.226	55.496	69.71
	79.202	69.184	78.661	61.472	51.823	70.585	64.842	64.449	51.774	59.235	68.196	65.385	72.696	44.069	50.402	53.602
eWAT-Ucp1-Con	44.373	65.772	79.669	43.21	59.833	53.169	53.188	79.288	53.263	58.249	43.804	77.354	70.477	58.361	56.399	86.746
	58.187	53.804	47.915	44.603	67.211	48.422	66.703	72.177	60.274	60.46	79.486	74.704	85.028	55.402	51.631	59.843
	51.418	66.525	52.004	52.366	51.267	59.404	54.251	53.892	53.99	55.234	47.524	53.634	54.283	57.459	60.966	48.175
	54.65	58.536	69.392	61.792	57.761	47.231	60.8	52.489	57.124	75.325	45.525	46.39	45.26	55.523	58.695	53.268
	77.055	56.297	46.41	64.776	73.331	62.38	59.973	58.723	63.641	77.781	74.042	80.88	81.749	77.103	50.006	88.304
	71.156	62.746	62.868	53.15	52.119	55.03	81.399	48.039	55.103	50.715	55.45	65.918				
	72.458	77.195	53.49	51.466	59.1	70.382	60.149	55.023	58.854	47.617	43.673	78.98	63.024	58.435	70.503	48.607
	59.494	55.169	73.155	95.239	70.682	69.532	73.912	49.757	48.705	47.979	61.292	67.495	79.828	58.273	74.915	64.66
	49.496	63.91	64.568	69.908	62.902	64.901	63.029	53.195	58.413	95.231	95.062	72.077	91.509	76.482	73.368	74.571
	69.818	77.675	97.117	55.975	64.909	54.661	49.926	42.278	39.577	47.883	61.967	52.885	48.325	43.046	44.145	39.996
eWAT-Ucp1-CC	57.122	39.812	56.809	47.574	37.998	36.873	56.251	45.463	81.174	77.391	75.162	41.818	52.87	83.251	70.296	73.352
	57.215	43.749	51.968	35.921	37.129	43.802	37.217	46.379	58.039	57.979	53.654	46.622	52.687	54.448	66.798	70.687
	47.913	66.055	50.34	70.442	67.22	52.126	53.281	55.724	54.186	79.703	50.93	71.112	72.471	85.892	73.596	72.691
	72.814	63.06	63.067	67.542	66.22	70.445	53.56	71.016	54.651	54.722	70.06	68.891	62.109	52.874	73.43	66.362
	51.212	52.355	60.422	65.155	56.591	79.242	65.537	71.111	65.17	75.111	42.887	52.178	32.467	53.007	59.16	59.937
	50.555	47.437	54.553	50.366												
Fig.S4a				FMT-Con						FMT-CC						
Verrucomicrobia	1.04639	0.84652951	1.25880717	1.06522502	0.95430768	0.82874088	91.226373	267.744204	210.074826	55.6083038	76.3985035	159.644583				
αProteobacteria	0.738893229	0.64779849	1.27113517	0.63512808	1.3558097	1.35323544	1.5268917	0.78698469	1.21571937	1.3796562	0.90746037	1.35494324				
βProteobacteria	0.120820298	0.09239528	0.9236311	3.77972951	0.74922014	0.33420375	1.08689308	0.25719602	0.36615391	1.97869992	0.93703227	1.29971698				
δ, γProteobacteria	1.565361793	1.0575054	0.83928916	0.84326538	0.78706954	0.90750883	0.77736164	0.49589601	1.18296784	0.93949837	0.95531865	0.4707168				
Firmicutes	1.354350992	0.9520787	0.96417962	1.1089051	0.83778165	0.7827039	0.95152649	0.78311329	0.84137099	0.71325928	1.03059663	0.78311329				
Bacteroidetes	0.94762157	1.01737037	1.035008	1.05184391	1.02859431	0.91956171	0.8017103	0.80892569	0.78006412	0.88107962	0.77204702	0.85943344				
Actinobacteria	0.898117645	0.85504294	1.22282753	0.57554583	1.19514323	1.25332265	1.24551686	0.78252373	1.15482406	0.68220041	0.98789808	0.83803056				
Deferribacteres	4.47783254	0.31527094	0.26108375	0.10837438	0.09359606	0.74384237	4.9261084	4.98029559	2.74384238	10.3103449	4.66009855	6.4482759				
Fig.S4b				FMT-Con						FMT-CC						
Akkermansia	2.67688479	0.32311516	1.07870752	0.73322285	0.57663628	0.6114333	38.6470582	53.4482178	46.9237772	111.589062	116.048051	331.101071				
Fig.S4c				FMT-Con						FMT-CC						
Lactobacillus	1.20396784	1.26806363	1.00886307	1.47255973	0.32177027	0.72477549	7.67541237	7.77472563	11.739156	5.46293364	3.52503376	3.72553855				
Fig.S4d				FMT-Con						FMT-CC						
*Clostridium*_XlVa	1.2131015	1.06995552	1.19733118	1.09057825	0.83825314	0.59078043	1.43995148	1.39506673	2.16295997	1.54306511	1.27618278	1.80873434				
Fig. S5c				FMT-Con						FMT-CC						
BAT	0.5467	0.5451	0.6048	0.5716	0.7314	0.6662	0.178	0.186	0.4839	0.4646	0.278	0.386				
iWAT	3.4042	3.5756	2.9674	3.3298	4.0724	3.5288	1.5733	1.551	2.2932	2.9252	2.5733	2.551				
eWAT	2.6811	4.5654	3.0424	3.8448	3.0186	2.6329	1.959	2.075	1.9708	2.764	2.259	2.375				
Liver	2.0303	2.2312	1.8908	1.7344	1.7722	2.2284	1.1412	1.4019	1.3049	1.384	1.4289	1.1352				
Fig. S6a				FMT-Con								FMT-CC				
Food intake	2.651	2.233	2.326	2.596	3.502	2.286	2.417333	2.778	2.5	2.403	2.847	2.458	3.42	2.754667	2.566667	2.609333
Fig. S6b				FMT-Con						FMT-CC						
xcal energy conte	4.14469999	4.56149688	3.77369068	4.08360609	4.30147573	4.27589193	3.93189743	4.1057139	4.37665517	4.39802955	4.45050394	4.59672985				
Fig. S6c				FMT-Con								FMT-CC				
Daytime	505	564	577	434	690	347	467	359	616	274	789	201	728	433	467	302
Night	928	1242	648	661	1235	752	1369	846	869	691	976	669	1331	1781	697	523
Fig. S6d				FMT-Con								FMT-CC				
RER	0.68708333	0.78416667	0.7475	0.72	0.70916667	0.7975	0.68791667	0.72166667	0.74833333	0.66083333	0.78708333	0.70666667	0.68875	0.7575	0.8275	0.775
Fig. S7b				HFD-Con-Abx								HFD-CC-Abx				
Body temperature	37.5	37	36.8	37.2	37.5	36.9	37.6	37.3	37	37.1	37.5	36.9	37	37.1	36.8	37.5
Fig. S7c																
Time				HFD-Con-Abx								HFD-CC-Abx				
0 h	37.5	37	36.8	37.2	37.5	36.9	37.6	37.3	37	37.1	37.5	36.9	37	37.1	36.8	37.5
1 h	35.9	36.1	36	36.1	36.4	36	36	36.2	36.1	36	36	35.8	35.8	35.7	35.8	36.1
2 h	34	34.6	33.4	33.4	33.8	31.8	34.1	33.5	33.3	34.2	33.2	33.1	33.2	33	33.4	33.8
3 h	34	33.2	32.1	31.9	32.8	34	34.1	32	32.7	32.4	31.4	33.8	32.5	33.6	34	33.2
4 h	34.2	33	31.5	31.9	34.4	32	34.3	32	32.1	31.9	31.6	32.6	31.7	33	32.3	32.6
5 h	33.9	33.4	31	31.1	33.7	31.7	34	31.2	32	32	31.1	31.5	31.5	32.1	32.6	32.5
6 h	32.5	32.1	30.7	31.2	32.5	32.7	32.6	31.3	32.6	32.6	32.8	31.8	31.4	31	32	33.1
Fig. S7d				RT-HFD-Con-Abx						RT-HFD-CC-Abx						
Ucp1	0.85062297	1.65831011	0.75210587	1.02878267	1.29198349	0.41819487	1.21445796	1.39436017	1.25183241	1.45301933	0.97136932	0.8142582				
Ppargc1a	1.07143671	1.51531971	0.98593662	0.79757926	0.57013199	1.05959569	0.74799625	1.14694141	0.62879796	1.00963941	0.55835318	0.66293164				
Prdm16	1.22374057	1.1490924	0.59473792	1.02916582	1.15765858	0.84560473	1.25311034	0.75298389	0.76728534	1.07811544	0.62410769	0.68284724				
Dio2	0.7243133	0.80345611	0.80702415	1.6946926	1.42211651	0.54839734	0.83243639	0.93465041	0.53630473	0.60508245	0.651128	1.61450037				
Elovl3	1.05028851	0.92952463	0.49920503	0.98876324	1.06554478	1.46667381	0.64680136	0.62968719	0.64519356	0.37651178	1.05739857	1.34212266				
Cidea	1.31656548	1.14483955	0.97051171	1.27753686	1.10581093	0.18473547	1.32957502	0.98091934	0.97051171	0.18473547	1.18126626	0.57762359				
Fig. S7e				Cold-HFD-Con-Abx						Cold-HFD-CC-Abx						
Ucp1	2.52147266	2.14077438	2.50911222	3.60739996	2.82230849	2.09467922	1.7257144	4.40524272	1.71933876	2.41656363	3.21537535	1.9544151				
Ppargc1a	2.09291715	2.45872402	3.11506118	1.90327407	2.33658102	1.99107602	2.52535313	1.86213117	2.4326157	2.0737351	2.36772853	3.85573715				
Prdm16	0.22761575	0.34142362	0.23495819	0.26922293	0.41484805	0.09789925	0.34754232	0.3499898	0.06852947	0.33285744	0.09300428	0.19702223				
Dio2	2.05656672	1.7956796	4.18838529	5.58517029	2.7080822	4.16560469	6.2241411	4.77021894	2.85322578	2.75291687	2.1466074	5.43008138				
Elovl3	4.12183575	4.61950444	6.47737463	1.6865734	4.42821159	3.57289601	3.9419471	1.64228165	3.68376297	4.84481126	4.01211212	7.75068331				
Cidea	1.7094536	1.48568951	2.58369471	2.60190807	3.24197746	2.67215959	1.72766696	2.22723331	2.38334779	1.81613183	4.15524719	2.94275803				
Fig. S7e				RT-HFD-Con-Abx						RT-HFD-CC-Abx						
Ucp1/Tubulin	1.2602	1.00453	0.735299	0.83062	0.640306	1.113059	1.666302	2.823836	2.541223	2.29609	2.635425	2.074157				
Fig. S7f				RT-HFD-Con-Abx						RT-HFD-CC-Abx						
Ucp1	2.02187865	1.11193638	1.03128406	0.43934929	0.52654099	0.86901061	0.6999556	0.65611755	0.36838493	1.52028418	1.40766156	1.45707019				
Ppargc1a	0.81400081	0.95970695	0.69108669	1.54904354	0.94831094	1.03785103	0.7008547	1.81929181	0.57305657	1.29426129	0.82539682	1.08017907				
Prdm16	0.60969414	0.47495174	0.70602581	1.07671985	0.84137791	2.29123058	2.11990652	0.48226806	1.25779901	0.46946449	0.50665583	0.79991871				
Dio2	0.26702608	2.05476401	1.49612169	0.64965893	1.1747167	0.35771262	0.6647596	1.33562549	0.9133018	1.85870284	1.68962483	0.74777204				
Elovl3	0.27964915	0.27990338	0.20363543	1.12113887	2.08592843	2.02974438	0.12736748	0.40930467	0.34854453	0.98639882	2.23617629	2.81937189				
Cidea	0.94905	0.6587868	0.34656332	1.23517951	1.47631197	1.3341084	0.88792723	0.7189838	1.26575166	0.89522579	0.99744873	1.20402605				
Fig. S7g				Cold-HFD-Con-Abx						Cold-HFD-CC-Abx						
Ucp1	12.6558753	12.0058128	14.6939813	12.7767327	10.7592136	15.7952609	10.6891155	14.5673112	16.1229564	14.9778387	3.04928753	13.4561014				
Ppargc1a	1.82254781	2.25641025	2.78632477	2.75620674	3.46031744	2.61636015	2.04639804	2.33699633	2.48351647	3.27472526	7.59185995	4.60073258				
Prdm16	0.3121634	0.1249873	0.26704603	0.16766589	0.48958439	0.23473224	0.46397724	0.59018393	0.31399248	0.4889747	0.5828676	0.17559191				
Dio2	8.2517329	8.82605351	7.47219169	9.37825948	13.2026901	10.4299428	12.7007372	11.9813511	9.77318741	8.37781938	7.79689738	7.42589947				
Elovl3	4.92029968	5.67764042	3.57035697	9.84263317	13.5965417	17.1318154	3.58815282	6.20846536	7.73814621	13.5797627	12.5046389	8.70064774				
Cidea	2.14493784	1.47863717	3.25425481	2.34122397	1.80296034	1.66196243	2.1412132	1.93405458	2.68507455	1.91937134	3.51013511	1.80371387				
Fig. S7g				RT-HFD-Con-Abx						RT-HFD-CC-Abx						
Ucp1/Tubulin	1.157396	1.082858	0.759746	0.923717	0.924087	1.004421	6.233349	4.059808	5.609168	4.645793	5.571261	5.284596				