Supplementary Materials

Trade-Offs Underwater: Physiological Plasticity of Rainbow Trout (*Onchorhynchus mykiss*) Confronted by Multiple Stressors

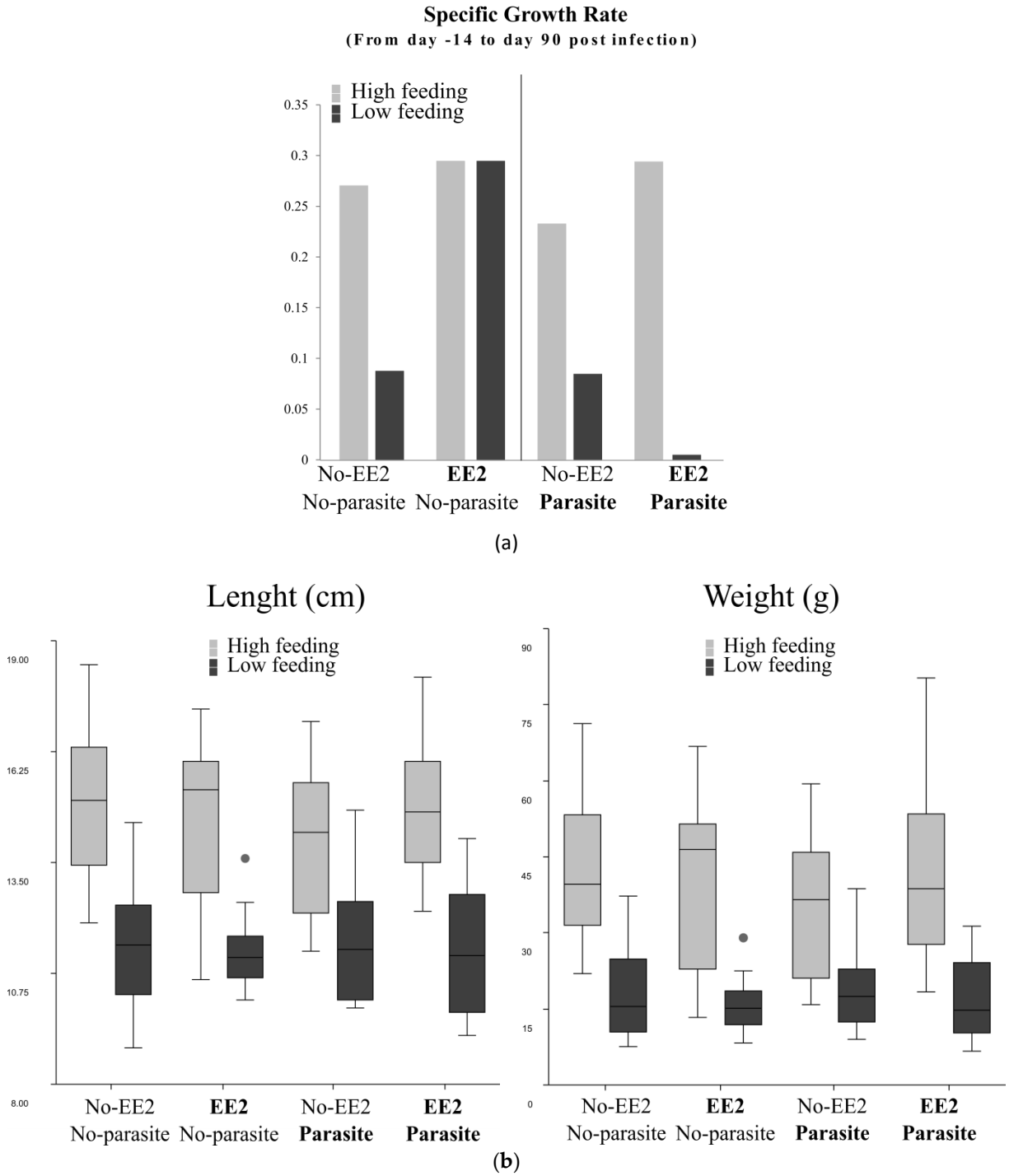

Figure S1. (a) Specific growth rate from rainbow trout sampled at the beginning of the experiment (day –14) and at the sampling point (day 90) for all of the treatment groups; (**b**) Length (in cm) on the **left** and weight (in g) on the **right** from rainbow trout for all of the treatment groups.

Table S2. Pearson correlations section (pairwise deletion).

TREATMENT: NC 0 HF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	-0.421988	-0.044168	-0.061612	0.207648	-0.294823	0.301481	0.031062	0.225194	0.232863	-0.203457
	Significance	0	0.103496	0.870976	0.827331	0.440302	0.267646	0.256477	0.909081	0.401718	0.38544	0.449786
	n	16	16	16	15	16	16	16	16	16	16	16
IGF-1 (-ddCt)	*Correlation*	-0.421988	1	-0.053937	0.384194	0.005342	-0.313733	0.025736	-0.207663	0.418528	0.051891	-0.136687
	Significance	0.103496	0	0.84274	0.157407	0.984334	0.236687	0.924626	0.440267	0.106658	0.848639	0.613715
	n	16	16	16	15	16	16	16	16	16	16	16
LSI (%)	*Correlation*	-0.044168	-0.053937	1	-0.067281	0.13444	-0.336835	0.391601	0.076818	-0.3757	-0.221466	-0.410928
	Significance	0.870976	0.84274	0	0.811695	0.61961	0.202053	0.133613	0.777357	0.151553	0.409761	0.113841
	n	16	16	16	15	16	16	16	16	16	16	16
Vtg (-ddCt)	*Correlation*	-0.061612	0.384194	-0.067281	1	0.099198	-0.099425	0.305333	0.263835	0.221541	0.042222	0.278315
	Significance	0.827331	0.157407	0.811695	0	0.725041	0.724433	0.268445	0.342028	0.427473	0.881235	0.315173
	n	15	15	15	15	15	15	15	15	15	15	15
HKSI (%)	*Correlation*	0.207648	0.005342	0.13444	0.099198	1	0.210649	0.213491	0.075636	0.415806	**0.57289***	-0.229666
	Significance	0.440302	0.984334	0.61961	0.725041	0	0.433572	0.427249	0.780704	0.109193	**0.020363**	0.392182
	n	16	16	16	15	16	16	16	16	16	**16**	16
SSI (%)	*Correlation*	-0.294823	-0.313733	-0.336835	-0.099425	0.210649	1	-0.205587	-0.017519	0.110942	-0.010909	0.122265
	Significance	0.267646	0.236687	0.202053	0.724433	0.433572	0	0.444952	0.948655	0.682512	0.968016	0.651927
	n	16	16	16	15	16	16	16	16	16	16	16
TKSI (%)	*Correlation*	0.301481	0.025736	0.391601	0.305333	0.213491	-0.205587	1	-0.010707	0.108465	0.060137	-0.095198
	Significance	0.256477	0.924626	0.133613	0.268445	0.427249	0.444952	0	0.968608	0.689269	0.82491	0.725812
	n	16	16	16	15	16	16	16	16	16	16	16
NKEF (-ddCt)	*Correlation*	0.031062	-0.207663	0.076818	0.263835	0.075636	-0.017519	-0.010707	1	0.028851	0.015566	0.088606
	Significance	0.909081	0.440267	0.777357	0.342028	0.780704	0.948655	0.968608	0	0.915531	0.954374	0.744185
	n	16	16	16	15	16	16	16	16	16	16	16
Blimp-1 (-ddCt)	*Correlation*	0.225194	0.418528	-0.3757	0.221541	0.415806	0.110942	0.108465	0.028851	1	0.447967	-0.094711
	Significance	0.401718	0.106658	0.151553	0.427473	0.109193	0.682512	0.689269	0.915531	0	0.08184	0.727166
	n	16	16	16	15	16	16	16	16	16	16	16
IgM-sec (-ddCt)	*Correlation*	0.232863	0.051891	-0.221466	0.042222	**0.57289***	-0.010909	0.060137	0.015566	0.447967	1	0.082966
	Significance	0.38544	0.848639	0.409761	0.881235	**0.020363**	0.968016	0.82491	0.954374	0.08184	0	0.760009
	n	16	16	16	15	**16**	16	16	16	16	16	16
IL-10 (-ddCt)	*Correlation*	-0.203457	-0.136687	-0.410928	0.278315	-0.229666	0.122265	-0.095198	0.088606	-0.094711	0.082966	1
	Significance	0.449786	0.613715	0.113841	0.315173	0.392182	0.651927	0.725812	0.744185	0.727166	0.760009	0
	n	16	16	16	15	16	16	16	16	16	16	16

Table S2. *Cont.*

TREATMENT: NC 0 LF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	**-0.843589***	-0.148042	-0.225217	-0.476152	0.010564	**-0.602237***	**0.744164***	**-0.716038***	**-0.679364***	**0.58248***
	Significance	0	**0.00004**	0.598514	0.591781	0.062259	0.969026	**0.013562**	**0.000947**	**0.00181**	**0.003797**	**0.017902**
	n	16	**16**	15	8	16	16	**16**	**16**	**16**	**16**	**16**
IGF-1 (-ddCt)	*Correlation*	**-0.843589***	1	0.131071	0.367674	**0.505279***	-0.134967	**0.654213***	**-0.814076***	**0.744679***	**0.706959***	**-0.57825***
	Significance	**0.00004**	0	0.641491	0.370222	**0.045883**	0.618226	**0.00597**	**0.000124**	**0.000935**	**0.002196**	**0.018955**
	n	**16**	16	15	8	**16**	16	**16**	**16**	**16**	**16**	**16**
LSI (%)	*Correlation*	-0.148042	0.131071	1	-0.480771	0.260518	-0.218607	0.31548	0.297939	0.16798	0.006354	-0.14787
	Significance	0.598514	0.641491	0	0.22783	0.348356	0.433775	0.252042	0.280792	0.54956	0.982069	0.598943
	n	15	15	15	8	15	15	15	15	15	15	15
Vtg (-ddCt)	*Correlation*	-0.225217	0.367674	-0.480771	1	0.175576	-0.14172	0.250008	-0.531628	0.206945	0.480506	0.068202
	Significance	0.591781	0.370222	0.22783	0	0.677498	0.737812	0.550401	0.175089	0.622914	0.228124	0.872516
	n	8	8	8	8	8	8	8	8	8	8	8
HKSI (%)	*Correlation*	-0.476152	**0.505279***	0.260518	0.175576	1	-0.024269	**0.721256***	-0.29227	**0.72845***	**0.611118***	-0.441425
	Significance	0.062259	**0.045883**	0.348356	0.677498	0	0.928911	**0.001614**	0.272007	**0.001373**	**0.011903**	0.086955
	n	16	**16**	15	8	16	16	**16**	16	**16**	**16**	16
SSI (%)	*Correlation*	0.010564	-0.134967	-0.218607	-0.14172	-0.024269	1	0.177477	-0.114747	0.212269	0.304222	-0.348559
	Significance	0.969026	0.618226	0.433775	0.737812	0.928911	0	0.510813	0.672179	0.42996	0.251964	0.185805
	n	16	16	15	8	16	16	16	16	16	16	16
TKSI (%)	*Correlation*	**-0.602237***	**0.654213***	0.31548	0.250008	**0.721256***	0.177477	1	-0.359396	**0.828833***	**0.731505***	**-0.61663***
	Significance	**0.013562**	**0.00597**	0.252042	0.550401	**0.001614**	0.510813	0	0.171571	**0.000072**	**0.00128**	**0.010956**
	n	**16**	**16**	15	8	**16**	16	16	16	**16**	**16**	**16**
NKEF (-ddCt)	*Correlation*	**0.744164***	**-0.814076***	0.297939	-0.531628	-0.29227	-0.114747	-0.359396	1	**-0.607498***	**-0.687901***	0.475852
	Significance	**0.000947**	**0.000124**	0.280792	0.175089	0.272007	0.672179	0.171571	0	**0.012559**	**0.003225**	0.062447
	n	**16**	**16**	15	8	16	16	16	16	**16**	**16**	16
Blimp-1 (-ddCt)	*Correlation*	**-0.716038***	**0.744679***	0.16798	0.206945	**0.72845***	0.212269	**0.828833***	**-0.607498***	1	**0.82701***	**-0.82911***
	Significance	**0.00181**	**0.000935**	0.54956	0.622914	**0.001373**	0.42996	**0.000072**	**0.012559**	0	**0.000078**	**0.000072**
	n	**16**	**16**	15	8	**16**	16	**16**	**16**	16	**16**	**16**
IgM-sec (-ddCt)	*Correlation*	**-0.679364***	**0.706959***	0.006354	0.480506	0.611118	0.304222	0.731505	-0.687901	0.82701	1	-0.51787
	Significance	**0.003797**	**0.002196**	0.982069	0.228124	0.011903	0.251964	0.00128	0.003225	0.000078	0	0.039901
	n	**16**	**16**	15	8	16	16	16	16	16	16	16
IL-10 (-ddCt)	*Correlation*	**0.58248***	**-0.578257***	-0.14787	0.068202	-0.441425	-0.348559	**-0.61663***	0.475852	**-0.829115***	**-0.51787***	1
	Significance	**0.017902**	**0.018955**	0.598943	0.872516	0.086955	0.185805	**0.010956**	0.062447	**0.000072**	**0.039901**	0
	n	**16**	**16**	15	8	16	16	**16**	16	**16**	**16**	16

Table S2. *Cont.*

TREATMENT: NC 9 HF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	-0.333279	**0.665759***	-0.150375	-0.188982	-0.362762	**-0.53523***	**0.512769***	0.046535	**0.583829***	0.115193
	Significance	0	0.207157	**0.004875**	0.578289	0.483325	0.167302	**0.032641**	**0.042249**	0.864119	**0.017575**	0.670973
	n	16	16	**16**	16	16	16	**16**	**16**	16	**16**	16
IGF-1 (-ddCt)	*Correlation*	-0.333279	1	-0.336001	0.412618	0.355189	0.469637	**0.542203***	**-0.679192***	0.421382	-0.213609	-0.342633
	Significance	0.207157	0	0.203243	0.112216	0.177008	0.066443	**0.030026**	**0.003809**	0.104046	0.426987	0.193906
	n	16	16	16	16	16	16	**16**	**16**	16	16	16
LSI (%)	*Correlation*	0.665759*	-0.336001	1	0.037776	-0.189489	-0.348155	-0.28087	**0.624192***	0.143257	**0.497522***	0.138186
	Significance	0.004875	0.203243	0	0.889532	0.48213	0.18635	0.291998	**0.009755**	0.596605	**0.049887**	0.609794
	n	16	16	16	16	16	16	16	**16**	16	**16**	16
Vtg (-ddCt)	*Correlation*	-0.150375	0.412618	0.037776	1	0.279439	0.145198	0.207332	-0.361793	**0.73724***	0.309283	-0.436928
	Significance	0.578289	0.112216	0.889532	0	0.294569	0.591588	0.441014	0.168522	**0.001119**	0.243761	0.090601
	n	16	16	16	16	16	16	16	16	**16**	16	16
HKSI (%)	*Correlation*	-0.188982	0.355189	-0.189489	0.279439	1	**0.648812***	**0.649897***	-0.4396	**0.594786***	-0.191649	-0.1773
	Significance	0.483325	0.177008	0.48213	0.294569	0	**0.006546**	**0.006427**	0.088422	**0.015089**	0.477057	0.511241
	n	16	16	16	16	16	**16**	**16**	16	**16**	16	16
SSI (%)	*Correlation*	-0.362762	0.469637	-0.348155	0.145198	**0.648812***	1	**0.553473***	-0.456428	0.456052	-0.282144	-0.286936
	Significance	0.167302	0.066443	0.18635	0.591588	**0.006546**	0	**0.02614**	0.075551	0.075823	0.289723	0.281254
	n	16	16	16	16	**16**	16	**16**	16	16	16	16
TKSI (%)	*Correlation*	**-0.53523***	**0.542203***	-0.28087	0.207332	**0.649897***	**0.553473***	1	-0.373217	0.242704	**-0.515107***	-0.064417
	Significance	**0.032641**	**0.030026**	0.291998	0.441014	**0.006427**	**0.02614**	0	0.154495	0.365088	**0.041161**	0.812646
	n	**16**	**16**	16	16	**16**	**16**	16	16	16	**16**	16
NKEF (-ddCt)	*Correlation*	**0.512769***	**-0.679192***	**0.624192***	-0.361793	-0.4396	-0.456428	-0.373217	1	-0.337692	0.323885	0.28126
	Significance	**0.042249**	**0.003809**	**0.009755**	0.168522	0.088422	0.075551	0.154495	0	0.200836	0.221038	0.291301
	n	**16**	**16**	**16**	16	16	16	16	16	16	16	16
Blimp-1 (-ddCt)	*Correlation*	0.046535	0.421382	0.143257	**0.73724***	**0.594786***	0.456052	0.242704	-0.337692	1	0.390141	-0.3901
	Significance	0.864119	0.104046	0.596605	**0.001119**	**0.015089**	0.075823	0.365088	0.200836	0	0.135195	0.135241
	n	16	16	16	**16**	**16**	16	16	16	16	16	16
IgM-sec (-ddCt)	*Correlation*	**0.583829***	-0.213609	**0.497522***	0.309283	-0.191649	-0.282144	**-0.515107***	0.323885	0.390141	1	-0.283984
	Significance	**0.017575**	0.426987	**0.049887**	0.243761	0.477057	0.289723	**0.041161**	0.221038	0.135195	0	0.286453
	n	**16**	16	**16**	16	16	16	**16**	16	16	16	16
IL-10 (-ddCt)	*Correlation*	0.115193	-0.342633	0.138186	-0.436928	-0.1773	-0.286936	-0.064417	0.28126	-0.3901	-0.283984	1
	Significance	0.670973	0.193906	0.609794	0.090601	0.511241	0.281254	0.812646	0.291301	0.135241	0.286453	0
	n	16	16	16	16	16	16	16	16	16	16	16

Table S2. *Cont.*

TREATMENT: NC 9 LF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	-0.442229	**0.723947***	**-0.654642***	-0.309703	-0.255526	0.077195	0.364176	-0.205825	0.250218	0.020611
	Significance	0	0.086314	**0.00152**	**0.005926**	0.243087	0.339486	0.776291	0.165529	0.444415	0.349957	0.939607
	n	16	16	**16**	**16**	16	16	16	16	16	16	16
IGF-1 (-ddCt)	*Correlation*	-0.442229	1	-0.354355	0.220016	-0.059348	0.268211	0.085269	0.238793	-0.23564	0.064515	0.30403
	Significance	0.086314	0	0.178099	0.412911	0.827176	0.315198	0.753535	0.373102	0.379635	0.812368	0.252278
	n	16	16	16	16	16	16	16	16	16	16	16
LSI (%)	*Correlation*	**0.723947***	-0.354355	1	-0.493615	-0.099433	-0.079259	0.275797	0.060337	-0.278333	0.378957	-0.021044
	Significance	**0.00152**	0.178099	0	0.051999	0.714083	0.770456	0.301169	0.824336	0.296565	0.147753	0.938342
	n	**16**	16	16	16	16	16	16	16	16	16	16
Vtg (-ddCt)	*Correlation*	**-0.654642***	0.220016	-0.493615	1	0.401251	0.443689	0.237079	-0.276024	0.366834	-0.200157	-0.319782
	Significance	**0.005926**	0.412911	0.051999	0	0.123466	0.08516	0.376646	0.300755	0.162232	0.457327	0.227281
	n	**16**	16	16	16	16	16	16	16	16	16	16
HKSI (%)	*Correlation*	-0.309703	-0.059348	-0.099433	0.401251	1	0.456719	**0.518853***	0.0023	0.207393	-0.451396	-0.404874
	Significance	0.243087	0.827176	0.714083	0.123466	0	0.075341	**0.03946**	0.993256	0.440874	0.079247	0.119799
	n	16	16	16	16	16	16	**16**	16	16	16	16
SSI (%)	*Correlation*	-0.255526	0.268211	-0.079259	0.443689	0.456719	1	0.384174	0.031883	0.174131	0.051477	-0.297248
	Significance	0.339486	0.315198	0.770456	0.08516	0.075341	0	0.141801	0.906689	0.51894	0.849834	0.263545
	n	16	16	16	16	16	16	16	16	16	16	16
TKSI (%)	*Correlation*	0.077195	0.085269	0.275797	0.237079	**0.518853***	0.384174	1	-0.022621	0.250182	0.140185	**-0.57728***
	Significance	0.776291	0.753535	0.301169	0.376646	**0.03946**	0.141801	0	0.93373	0.35003	0.604581	**0.019204**
	n	16	16	16	16	**16**	16	16	16	16	16	**16**
NKEF (-ddCt)	*Correlation*	0.364176	0.238793	0.060337	-0.276024	0.0023	0.031883	-0.022621	1	-0.46175	-0.408582	**0.516112***
	Significance	0.165529	0.373102	0.824336	0.300755	0.993256	0.906689	0.93373	0	0.071778	0.116124	**0.040699**
	n	16	16	16	16	16	16	16	16	16	16	**16**
Blimp-1 (-ddCt)	*Correlation*	-0.205825	-0.23564	-0.278333	0.366834	0.207393	0.174131	0.250182	-0.46175	1	0.371384	**-0.82019***
	Significance	0.444415	0.379635	0.296565	0.162232	0.440874	0.51894	0.35003	0.071778	0	0.156691	**0.0001**
	n	16	16	16	16	16	16	16	16	16	16	**16**
IgM-sec (-ddCt)	*Correlation*	0.250218	0.064515	0.378957	-0.200157	-0.451396	0.051477	0.140185	-0.408582	0.371384	1	-0.408639
	Significance	0.349957	0.812368	0.147753	0.457327	0.079247	0.849834	0.604581	0.116124	0.156691	0	0.116068
	n	16	16	16	16	16	16	16	16	16	16	16
IL-10 (-ddCt)	*Correlation*	0.020611	0.30403	-0.021044	-0.319782	-0.404874	-0.297248	**-0.577289***	**0.516112***	**-0.820198***	-0.408639	1
	Significance	0.939607	0.252278	0.938342	0.227281	0.119799	0.263545	**0.019204**	**0.040699**	**0.0001**	0.116068	0
	n	16	16	16	16	16	16	**16**	**16**	**16**	16	16

Table S2. *Cont.*

TREATMENT: PKD 0 HF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	-0.06845	-0.38358	0.381081	-0.317584	-0.446143	-0.284832	0.416438	-0.495531	**-0.580726***	0.40329
	Significance	0	0.80113	0.14247	0.277261	0.230672	0.083244	0.284953	0.108601	0.050955	**0.018334**	0.121393
	n	16	16	16	10	16	16	16	16	16	**16**	16
IGF-1 (-ddCt)	*Correlation*	-0.06845	1	-0.067489	0.126064	-0.184914	-0.00284	-0.263545	-0.295771	0.220285	0.035225	-0.274142
	Significance	0.80113	0	0.803872	0.728575	0.492961	0.991671	0.32401	0.266037	0.412325	0.896954	0.304198
	n	16	16	16	10	16	16	16	16	16	16	16
LSI (%)	*Correlation*	-0.38358	-0.067489	1	-0.210164	0.490056	0.572879	0.404342	-0.377769	0.250626	0.189342	-0.291571
	Significance	0.14247	0.803872	0	0.56004	0.05398	0.020366	0.120333	0.149132	0.349146	0.482477	0.273208
	n	16	16	16	10	16	16	16	16	16	16	16
Vtg (-ddCt)	*Correlation*	0.381081	0.126064	-0.210164	1	0.05797	0.484661	0.129103	-0.082266	0.204449	-0.356952	-0.392152
	Significance	0.277261	0.728575	0.56004	0	0.873616	0.155705	0.722248	0.821255	0.570997	0.311283	0.262361
	n	10	10	10	10	10	10	10	10	10	10	10
HKSI (%)	*Correlation*	-0.317584	-0.184914	0.490056	0.05797	1	**0.556674***	**0.674252***	**-0.698539***	**0.660107***	**0.53347***	**-0.72026***
	Significance	0.230672	0.492961	0.05398	0.873616	0	**0.02511**	**0.004177**	**0.002611**	**0.005389**	**0.033327**	**0.00165**
	n	16	16	16	10	16	**16**	**16**	**16**	**16**	**16**	**16**
SSI (%)	*Correlation*	-0.446143	-0.00284	0.572879	0.484661	**0.556674***	1	**0.650393***	-0.386147	**0.645353***	0.386236	**-0.56871***
	Significance	0.083244	0.991671	0.020366	0.155705	**0.02511**	0	**0.006373**	0.139592	**0.006937**	0.139494	**0.021514**
	n	16	16	16	10	**16**	16	**16**	16	**16**	16	**16**
TKSI (%)	*Correlation*	-0.284832	-0.263545	0.404342	0.129103	**0.674252***	**0.650393***	1	-0.39059	**0.6584***	0.315416	**-0.64348***
	Significance	0.284953	0.32401	0.120333	0.722248	**0.004177**	**0.006373**	0	0.134707	**0.005552**	0.234047	**0.007156**
	n	16	16	16	10	**16**	**16**	16	16	**16**	16	**16**
NKEF (-ddCt)	*Correlation*	0.416438	-0.295771	-0.377769	-0.082266	**-0.698539***	-0.386147	-0.39059	1	**-0.608329***	**-0.510774***	**0.749226***
	Significance	0.108601	0.266037	0.149132	0.821255	**0.002611**	0.139592	0.134707	0	**0.012406**	**0.043195**	**0.000836**
	n	16	16	16	10	**16**	16	16	16	**16**	**16**	**16**
Blimp-1 (-ddCt)	*Correlation*	-0.495531	0.220285	0.250626	0.204449	**0.660107***	**0.645353***	**0.6584***	**-0.608329***	1	**0.701844***	**-0.90148***
	Significance	0.050955	0.412325	0.349146	0.570997	**0.005389**	**0.006937**	**0.005552**	**0.012406**	0	**0.002441**	**0.000002**
	n	16	16	16	10	**16**	**16**	**16**	**16**	16	**16**	**16**
IgM-sec (-ddCt)	*Correlation*	**-0.580726***	0.035225	0.189342	-0.356952	0.53347	0.386236	0.315416	**-0.510774***	**0.701844***	1	-0.496587
	Significance	**0.018334**	0.896954	0.482477	0.311283	0.033327	0.139494	0.234047	**0.043195**	**0.002441**	0	0.050386
	n	**16**	16	16	10	16	16	16	**16**	**16**	16	16
IL-10 (-ddCt)	*Correlation*	0.40329	-0.274142	-0.291571	-0.392152	**-0.720269***	**-0.56871***	**-0.643488***	**0.749226***	**-0.901488***	-0.496587	1
	Significance	0.121393	0.304198	0.273208	0.262361	**0.00165**	**0.021514**	**0.007156**	**0.000836**	**0.000002**	0.050386	0
	n	16	16	16	10	**16**	**16**	**16**	**16**	**16**	16	16

Table S2. *Cont.*

TREATMENT: PKD 0 LF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	-0.183101	0.363554	-0.214076	0.482297	0.07659	0.231703	0.048363	0.094001	0.100964	-0.195892
	Significance	0	0.497285	0.166307	0.580202	0.058493	0.778004	0.387879	0.858831	0.729138	0.709856	0.467167
	n	16	16	16	9	16	16	16	16	16	16	16
IGF-1 (-ddCt)	*Correlation*	-0.183101	1	0.130352	0.260892	0.241504	0.307788	0.262311	-0.211765	0.366241	-0.25916	**-0.53053***
	Significance	0.497285	0	0.630393	0.497745	0.367537	0.246167	0.326365	0.431083	0.162964	0.332421	**0.034495**
	n	16	16	16	9	16	16	16	16	16	16	**16**
LSI (%)	*Correlation*	0.363554	0.130352	1	0.45803	**0.671373***	0.470681	**0.631508***	-0.232322	0.432209	0.440798	-0.349913
	Significance	0.166307	0.630393	0	0.215031	**0.004404**	0.065759	**0.008694**	0.386577	0.094543	0.087457	0.183986
	n	16	16	16	9	**16**	16	**16**	16	16	16	16
Vtg (-ddCt)	*Correlation*	-0.214076	0.260892	0.45803	1	-0.014531	0.236399	-0.080691	0.15239	0.143847	0.231581	-0.167527
	Significance	0.580202	0.497745	0.215031	0	0.970403	0.54028	0.836507	0.695498	0.711964	0.548805	0.666597
	n	9	9	9	9	9	9	9	9	9	9	9
HKSI (%)	*Correlation*	0.482297	0.241504	**0.671373***	-0.014531	1	**0.583556***	**0.69907***	-0.304909	**0.539762***	0.279056	**-0.64854***
	Significance	0.058493	0.367537	**0.004404**	0.970403	0	**0.017641**	**0.002583**	0.25084	**0.030922**	0.295259	**0.006576**
	n	16	16	**16**	9	16	**16**	**16**	16	**16**	16	**16**
SSI (%)	*Correlation*	0.07659	0.307788	0.470681	0.236399	**0.583556***	1	**0.687631***	**-0.62235***	**0.566806***	0.169222	**-0.77758***
	Significance	0.778004	0.246167	0.065759	0.54028	**0.017641**	0	**0.003242**	**0.010037**	**0.022055**	0.530972	**0.000392**
	n	16	16	16	9	**16**	16	**16**	**16**	**16**	16	**16**
TKSI (%)	*Correlation*	0.231703	0.262311	**0.631508***	-0.080691	**0.69907***	**0.687631***	1	-0.339337	**0.822938***	0.303667	**-0.72928***
	Significance	0.387879	0.326365	**0.008694**	0.836507	**0.002583**	**0.003242**	0	0.198512	**0.00009**	0.252874	**0.001347**
	n	16	16	**16**	9	**16**	**16**	16	16	**16**	16	**16**
NKEF (-ddCt)	*Correlation*	0.048363	-0.211765	-0.232322	0.15239	-0.304909	**-0.62235***	-0.339337	1	-0.293065	-0.282944	0.448505
	Significance	0.858831	0.431083	0.386577	0.695498	0.25084	**0.010037**	0.198512	0	0.270645	0.288298	0.081429
	n	16	16	16	9	16	**16**	16	16	16	16	16
Blimp-1 (-ddCt)	*Correlation*	0.094001	0.366241	0.432209	0.143847	**0.539762***	**0.566806***	**0.822938***	-0.293065	1	0.375599	**-0.77080***
	Significance	0.729138	0.162964	0.094543	0.711964	**0.030922**	**0.022055**	**0.00009**	0.270645	0	0.151672	**0.000474**
	n	16	16	16	9	**16**	**16**	**16**	16	16	16	**16**
IgM-sec (-ddCt)	*Correlation*	0.100964	-0.25916	0.440798	0.231581	0.279056	0.169222	0.303667	-0.282944	0.375599	1	-0.102705
	Significance	0.709856	0.332421	0.087457	0.548805	0.295259	0.530972	0.252874	0.288298	0.151672	0	0.70506
	n	16	16	16	9	16	16	16	16	16	16	16
IL-10 (-ddCt)	*Correlation*	-0.195892	**-0.530538***	-0.349913	-0.167527	**-0.648545***	**-0.777583***	**-0.72928***	0.448505	**-0.770806***	-0.102705	1
	Significance	0.467167	**0.034495**	0.183986	0.666597	**0.006576**	**0.000392**	**0.001347**	0.081429	**0.000474**	0.70506	0
	n	16	**16**	16	9	**16**	**16**	**16**	16	**16**	16	16

Table S2. *Cont.*

TREATMENT: PKD 9 HF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	1	-0.317364	0.310972	-0.156315	0.084278	**-0.516985***	-0.026279	0.089276	0.114388	0.210871	0.083243
	Significance	0	0.231013	0.241061	0.563187	0.756318	**0.040301**	0.92304	0.742312	0.673153	0.433075	0.759227
	n	16	16	16	16	16	**16**	16	16	16	16	16
IGF-1 (-ddCt)	*Correlation*	-0.317364	1	0.314538	0.159191	0.248707	0.077034	-0.228139	-0.177415	0.113242	0.018891	0.014402
	Significance	0.231013	0	0.235422	0.555938	0.352971	0.776745	0.395424	0.510963	0.67626	0.944639	0.957781
	n	16	16	16	16	16	16	16	16	16	16	16
LSI (%)	*Correlation*	0.310972	0.314538	1	-0.289481	-0.041477	-0.269755	-0.044996	-0.079571	0.000226	0.063334	0.112481
	Significance	0.241061	0.235422	0	0.276819	0.878782	0.312312	0.868576	0.769577	0.999338	0.815746	0.678325
	n	16	16	16	16	16	16	16	16	16	16	16
Vtg (-ddCt)	*Correlation*	-0.156315	0.159191	-0.289481	1	0.122022	0.108594	0.13616	-0.168443	0.18385	-0.127638	-0.095032
	Significance	0.563187	0.555938	0.276819	0	0.652577	0.688915	0.615095	0.532892	0.495497	0.637589	0.726273
	n	16	16	16	16	16	16	16	16	16	16	16
HKSI (%)	*Correlation*	0.084278	0.248707	-0.041477	0.122022	1	0.136566	0.350899	-0.093299	0.442701	0.375237	-0.356212
	Significance	0.756318	0.352971	0.878782	0.652577	0	0.614031	0.182667	0.731092	0.08594	0.152099	0.175675
	n	16	16	16	16	16	16	16	16	16	16	16
SSI (%)	*Correlation*	-0.516985	0.077034	-0.269755	0.108594	0.136566	1	0.242622	0.001186	0.284893	0.233336	-0.269018
	Significance	0.040301	0.776745	0.312312	0.688915	0.614031	0	0.365254	0.996521	0.284846	0.384449	0.313686
	n	16	16	16	16	16	16	16	16	16	16	16
TKSI (%)	*Correlation*	-0.026279	-0.228139	-0.044996	0.13616	0.350899	0.242622	1	**-0.621328***	**0.743895***	0.35415	**-0.61556***
	Significance	0.92304	0.395424	0.868576	0.615095	0.182667	0.365254	0	**0.010197**	**0.000953**	0.178367	**0.011133**
	n	16	16	16	16	16	16	16	**16**	**16**	16	**16**
NKEF (-ddCt)	*Correlation*	0.089276	-0.177415	-0.079571	-0.168443	-0.093299	0.001186	**-0.621328***	1	**-0.768772***	-0.497065	**0.585439***
	Significance	0.742312	0.510963	0.769577	0.532892	0.731092	0.996521	**0.010197**	0	**0.000501**	0.05013	**0.017191**
	n	16	16	16	16	16	16	**16**	16	**16**	16	**16**
Blimp-1 (-ddCt)	*Correlation*	0.114388	0.113242	0.000226	0.18385	0.442701	0.284893	**0.743895***	**-0.768772***	1	**0.60106***	**-0.70745***
	Significance	0.673153	0.67626	0.999338	0.495497	0.08594	0.284846	**0.000953**	**0.000501**	0	**0.013795**	**0.002174**
	n	16	16	16	16	16	16	**16**	**16**	16	**16**	**16**
IgM-sec (-ddCt)	*Correlation*	0.210871	0.018891	0.063334	-0.127638	0.375237	0.233336	0.35415	-0.497065	**0.60106***	1	**-0.63860***
	Significance	0.433075	0.944639	0.815746	0.637589	0.152099	0.384449	0.178367	0.05013	**0.013795**	0	**0.007754**
	n	16	16	16	16	16	16	16	16	**16**	16	**16**
IL-10 (-ddCt)	*Correlation*	0.083243	0.014402	0.112481	-0.095032	-0.356212	-0.269018	**-0.615569***	**0.585439***	**-0.70745***	**-0.638609***	1
	Significance	0.759227	0.957781	0.678325	0.726273	0.175675	0.313686	**0.011133**	**0.017191**	**0.002174**	**0.007754**	0
	n	16	16	16	16	16	16	**16**	**16**	**16**	**16**	16

Table S2. *Cont.*

TREATMENT: PKD 9 LF		Condition Factor (K)	IGF-1 (-ddCt)	LSI (%)	Vtg (-ddCt)	HKSI (%)	SSI (%)	TKSI (%)	NKEF (-ddCt)	Blimp-1 (-ddCt)	IgM-sec (-ddCt)	IL-10 (-ddCt)
Condition Factor (K)	*Correlation*	0	-0.268408	**0.650314***	-0.254334	0.122581	0.049997	0.173378	-0.335062	0.081571	0.075492	-0.040249
	Significance	0	0.314828	**0.006382**	0.341823	0.651081	0.854107	0.520778	0.204587	0.763936	0.781112	0.882348
	n	16	16	**16**	16	16	16	16	16	16	16	16
IGF-1 (-ddCt)	*Correlation*	-0.268408	1	-0.257308	0.402216	0.420004	0.080943	0.216874	0.232144	0.227694	0.110395	-0.339165
	Significance	0.314828	0	0.336012	0.122482	0.105301	0.765706	0.419783	0.386951	0.396371	0.684003	0.198753
	n	16	16	16	16	16	16	16	16	16	16	16
LSI (%)	*Correlation*	0.650314	-0.257308	1	-0.229318	0.282209	0.253636	0.365337	**-0.557748***	0.210645	0.176343	-0.051169
	Significance	0.006382	0.336012	0	0.392919	0.289607	0.343195	0.164083	**0.024772**	0.433581	0.51356	0.850723
	n	16	16	16	16	16	16	16	**16**	16	16	16
Vtg (-ddCt)	*Correlation*	-0.254334	0.402216	-0.229318	1	0.476499	0.488626	0.43686	-0.285261	0.381301	0.072976	-0.494904
	Significance	0.341823	0.122482	0.392919	0	0.062042	0.054792	0.090657	0.284198	0.145058	0.788249	0.051295
	n	16	16	16	16	16	16	16	16	16	16	16
HKSI (%)	*Correlation*	0.122581	0.420004	0.282209	0.476499	1	0.338528	**0.585643***	**-0.509768***	**0.594733***	0.410561	**-0.66290***
	Significance	0.651081	0.105301	0.289607	0.062042	0	0.199652	**0.017143**	**0.043678**	**0.0151**	0.114196	**0.005129**
	n	16	16	16	16	16	16	**16**	**16**	**16**	16	**16**
SSI (%)	*Correlation*	0.049997	0.080943	0.253636	0.488626	0.338528	1	**0.560916***	-0.218759	0.404461	0.318971	-0.324876
	Significance	0.854107	0.765706	0.343195	0.054792	0.199652	0	**0.023794**	0.415654	0.120213	0.228529	0.219546
	n	16	16	16	16	16	16	**16**	16	16	16	16
TKSI (%)	*Correlation*	0.173378	0.216874	0.365337	0.43686	**0.585643***	**0.560916***	1	**-0.57484***	**0.780677***	**0.620183***	**-0.61728***
	Significance	0.520778	0.419783	0.164083	0.090657	**0.017143**	**0.023794**	0	**0.019842**	**0.000358**	**0.010378**	**0.010848**
	n	16	16	16	16	**16**	**16**	16	**16**	**16**	**16**	**16**
NKEF (-ddCt)	*Correlation*	-0.335062	0.232144	**-0.557748***	-0.285261	**-0.509768***	-0.218759	**-0.57484***	1	-0.482715	-0.384864	0.422345
	Significance	0.204587	0.386951	**0.024772**	0.284198	**0.043678**	0.415654	**0.019842**	0	0.058243	0.141026	0.103174
	n	16	16	**16**	16	**16**	16	**16**	16	16	16	16
Blimp-1 (-ddCt)	*Correlation*	0.081571	0.227694	0.210645	0.381301	**0.594733***	0.404461	**0.780677***	-0.482715	1	**0.712183***	**-0.88527***
	Significance	0.763936	0.396371	0.433581	0.145058	**0.0151**	0.120213	**0.000358**	0.058243	0	**0.001966**	**0.000005**
	n	16	16	16	16	**16**	16	**16**	16	16	**16**	**16**
IgM-sec (-ddCt)	*Correlation*	0.075492	0.110395	0.176343	0.072976	0.410561	0.318971	**0.620183***	-0.384864	**0.712183***	1	**-0.60962***
	Significance	0.781112	0.684003	0.51356	0.788249	0.114196	0.228529	**0.010378**	0.141026	**0.001966**	0	**0.01217**
	n	16	16	16	16	16	16	**16**	16	**16**	16	**16**
IL-10 (-ddCt)	*Correlation*	-0.040249	-0.339165	-0.051169	-0.494904	**-0.662906***	-0.324876	**-0.617284***	0.422345	**-0.885279***	**-0.609625***	1
	Significance	0.882348	0.198753	0.850723	0.051295	**0.005129**	0.219546	**0.010848**	0.103174	**0.000005**	**0.01217**	0
	n	16	16	16	16	**16**	16	**16**	16	**16**	**16**	16

Table S3. Monthly mean values of maintenance conditions through the experiment in terms of fish numbers and densities, from the start of the experiment in July until the final sampling time point in January. Different densities occurred in HF groups (high feeding) and LF groups (low feeding), and therefore they are presented separately.

	Average fish per tank	Fish average weight HF (g)	Fish average weight LF (g)	Total grams fish per tank HF (g)	Total grams fish per tank LF (g)	Liters per tank (l)	Density HF (g/l)	Density LF(g/l)
July	133	10	10	1332	1332	38	35.05	35.05
August	127	11.4	11.4	1452.36	1452.36	38	38.22	38.22
September	110	15.1	10.4	1673.08	1152.32	38	44.02	30.32
October	80	22.8	15.8	1843.38	1277.43	38	48.51	33.61
November	77	23	14	1789.4	1089.2	38	47.08	28.66
December	64	39.7	17	2578.515	1104.15	38	67.85	29.05
January	52	58.71	29.62	3096.95	1562.45	38	81.49	41.11

Table S4. ANOVA results for comparison between groups of all parameters.

Parameter	Test applied	DF	Sum of Squares	Mean Square	F-Ratio	Prob Level	Reject equal means (α=0.05)	Power (α=0.05)	Post-hoc test
Condition Factor (K)	**One-way analysis of variance (ANOVA)**	7	0.6937695	0.09910993	5.9048	0.00001	Yes	0.99907	Tukey multiple comparison's *post hoc* test
Liver *IGF-1* mRNA (ΔΔCt)	**One-way analysis of variance (ANOVA)**	7	63.70038	9.100055	14.3361	0.00000	Yes	1.00000	Tukey multiple comparison's *post hoc* test
Liver *vtg* mRNA (ΔΔCt)	**One-way analysis of variance (ANOVA)**	7	6081.049	868.7214	709.1237	0.00000	Yes	1.00000	Tukey multiple comparison's *post hoc* test

Parameter	Test applied	DF	Chi-Squared (H)	Prob Level	Reject equality of medians? (α=0.05)	
Liver Somatic Index (%)	Kruskal-Wallis One-Way ANOVA on Ranks	7	53.0461	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Head Kidney Somatic Index (%)	Kruskal-Wallis One-Way ANOVA on Ranks	7	50.2582	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Splenosomatic Index (%)	Kruskal-Wallis One-Way ANOVA on Ranks	7	50.7743	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Trunk Kidney Somatic Index (%)	Kruskal-Wallis One-Way ANOVA on Ranks	7	87.0005	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
***Blimp-1* mRNA (ΔΔCt)**	Kruskal-Wallis One-Way ANOVA on Ranks	7	80.8216	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
***IgM-sec* mRNA (ΔΔCt)**	Kruskal-Wallis One-Way ANOVA on Ranks	7	26.7190	0.00037	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
***IL-10* mRNA (ΔΔCt)**	Kruskal-Wallis One-Way ANOVA on Ranks	7	78.9016	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
***NKEF* mRNA (ΔΔCt)**	Kruskal-Wallis One-Way ANOVA on Ranks	7	44.7275	0.00000	Yes	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)

Table S5. Statistical analysis applied for each parameter. Significance was given when $P \leq 0.05$.

Parameter	Normality Shapiro-Wilk W[1]	Test applied	*Post-hoc* test
Condition Factor	Can't reject normality	One-way analysis of variance (ANOVA)	Tukey multiple comparision's *post hoc* test
Hepatic *IGF-1*mRNA	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Hepatic *vtg* mRNA	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Liver Somatic Index	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Head Kidney Somatic Index	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Splenosomatic Index	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Trunk Kidney Somatic Index	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
Blimp-1 mRNA	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
IgM-sec mRNA	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
IL-10 mRNA	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)
NKEF mRNA	Reject normality	Kruskal-Wallis	Kruskal–Wallis multiple comparison Z-value test (Dunn's test)

[1] Normality was assessed per treatment groups. If at least one group was not normally distributed, tests were applied for not-normally distributed data.

Tabe S6. P-values and Z-values of the multiple comparison tests for each parameter between all of the groups. Significant values are shown in bold.

Condition Factor								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF		0.01454	1	0.01198	0.99998	0.78645	0.99998	0.05159
LF	0.01454		0.00605	1	0.0396	0.52716	0.00461	0.99989
HFE	1	0.00605		0.00487	0.9991	0.62952	1	0.02462
LFE	0.01198	1	0.00487		0.03341	0.48814	0.00369	0.99975
HFP	0.99998	0.0396	0.9991	0.03341		0.9266	0.99806	0.11917
LFP	0.78645	0.52716	0.62952	0.48814	0.9266		0.58078	0.79388
HFEP	0.99998	0.00461	1	0.00369	0.99806	0.58078		0.01963
LFEP	0.05159	0.99989	0.02462	0.99975	0.11917	0.79388	0.01963	
Tukey-Kramer Multiple-Comparison Test. Means are significantly different if p-value < 0.05.								
IGF-1 mRNA								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	3.8459	3.131	4.6703	2.3423	3.3217	3.6743	6.9412
LF	3.8459	0	0.7148	0.8245	1.5036	0.5242	0.1716	3.0953
HFE	3.131	0.7148	0	1.5393	0.7887	0.1906	0.5433	3.8101
LFE	4.6703	0.8245	1.5393	0	2.328	1.3487	0.996	2.2708
HFP	2.3423	1.5036	0.7887	2.328	0	0.9793	1.332	4.5989
LFP	3.3217	0.5242	0.1906	1.3487	0.9793	0	0.3527	3.6195
HFEP	3.6743	0.1716	0.5433	0.996	1.332	0.3527	0	3.2669
LFEP	6.9412	3.0953	3.8101	2.2708	4.5989	3.6195	3.2669	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

Hepatic *vtg* mRNA								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	0.1975	5.1559	3.193	0.3453	0.1783	6.1543	3.9482
LF	0.1975	0	4.479	2.8499	0.1149	0.0232	5.3077	3.4767
HFE	5.1559	4.479	0	1.9953	4.9464	4.6276	1.0149	1.2277
LFE	3.193	2.8499	1.9953	0	3.1964	2.9346	3.0102	0.7676
HFP	0.3453	0.1149	4.9464	3.1964	0	0.1432	5.8365	3.8697

LFP	0.1783	0.0232	4.6276	2.9346	0.1432	0	5.4888	3.5859
HFEP	6.1543	5.3077	1.0149	3.0102	5.8365	5.4888	0	2.2426
LFEP	3.9482	3.4767	1.2277	0.7676	3.8697	3.5859	2.2426	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

Liver Somatic Index								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	0.7768	2.3006	1.1287	1.7002	2.1373	5.581	3.218
LF	0.7768	0	3.04	1.8871	2.4494	2.8793	6.267	3.9424
HFE	2.3006	3.04	0	1.1719	0.6004	0.1633	3.2804	0.9174
LFE	1.1287	1.8871	1.1719	0	0.5716	1.0086	4.4523	2.0893
HFP	1.7002	2.4494	0.6004	0.5716	0	0.4371	3.8808	1.5177
LFP	2.1373	2.8793	0.1633	1.0086	0.4371	0	3.4437	1.0807
HFEP	5.581	6.267	3.2804	4.4523	3.8808	3.4437	0	2.3631
LFEP	3.218	3.9424	0.9174	2.0893	1.5177	1.0807	2.3631	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

Head Kidney Somatic Index								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	2.8451	1.4201	2.521	4.818	5.5376	4.0555	4.7275
LF	2.8451	0	1.4249	0.3241	1.973	2.6926	1.2105	1.8824
HFE	1.4201	1.4249	0	1.1008	3.3979	4.1175	2.6354	3.3073
LFE	2.521	0.3241	1.1008	0	2.297	3.0166	1.5345	2.2065
HFP	4.818	1.973	3.3979	2.297	0	0.7196	0.7625	0.0905
LFP	5.5376	2.6926	4.1175	3.0166	0.7196	0	1.4821	0.8101
HFEP	4.0555	1.2105	2.6354	1.5345	0.7625	1.4821	0	0.6719
LFEP	4.7275	1.8824	3.3073	2.2065	0.0905	0.8101	0.6719	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

Splenosomatic Index								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	2.683	0.6052	3.3168	4.7799	4.5988	1.6441	4.7894
LF	2.683	0	2.0778	0.6338	2.0969	1.9158	1.0389	2.1064
HFE	0.6052	2.0778	0	2.7116	4.1746	3.9936	1.0389	4.1842
LFE	3.3168	0.6338	2.7116	0	1.463	1.2819	1.6727	1.4726
HFP	4.7799	2.0969	4.1746	1.463	0	0.1811	3.1358	0.0095
LFP	4.5988	1.9158	3.9936	1.2819	0.1811	0	2.9547	0.1906
HFEP	1.6441	1.0389	1.0389	1.6727	3.1358	2.9547	0	3.1453
LFEP	4.7894	2.1064	4.1842	1.4726	0.0095	0.1906	3.1453	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

Trunk Kidney Somatic Index								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	1.4773	0.2335	0.8864	6.1571	4.6846	5.1992	4.5797
LF	1.4773	0	1.2438	0.5909	4.6798	3.2072	3.7219	3.1024
HFE	0.2335	1.2438	0	0.6529	5.9236	4.4511	4.9657	4.3462
LFE	0.8864	0.5909	0.6529	0	5.2707	3.7982	4.3129	3.6933
HFP	6.1571	4.6798	5.9236	5.2707	0	1.4726	0.9579	1.5774
LFP	4.6846	3.2072	4.4511	3.7982	1.4726	0	0.5147	0.1048
HFEP	5.1992	3.7219	4.9657	4.3129	0.9579	0.5147	0	0.6195
LFEP	4.5797	3.1024	4.3462	3.6933	1.5774	0.1048	0.6195	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

Blimp-1 mRNA								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	0.9555	0.5719	1.5893	5.7331	4.8204	5.0992	5.0397
LF	0.9555	0	0.3836	0.6338	4.7775	3.8649	4.1437	4.0841
HFE	0.5719	0.3836	0	1.0175	5.1612	4.2486	4.5273	4.4678
LFE	1.5893	0.6338	1.0175	0	4.1437	3.2311	3.5099	3.4503
HFP	5.7331	4.7775	5.1612	4.1437	0	0.9126	0.6338	0.6934

LFP	4.8204	3.8649	4.2486	3.2311	0.9126	0	0.2788	0.2192
HFEP	5.0992	4.1437	4.5273	3.5099	0.6338	0.2788	0	0.0596
LFEP	5.0397	4.0841	4.4678	3.4503	0.6934	0.2192	0.0596	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

IgM-sec mRNA								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	1.1938	0.834	0.2311	3.8935	3.1906	1.6894	2.2351
LF	1.1938	0	0.3598	0.9627	2.6997	1.9968	0.4956	1.0413
HFE	0.834	0.3598	0	0.6029	3.0596	2.3566	0.8554	1.4011
LFE	0.2311	0.9627	0.6029	0	3.6624	2.9595	1.4583	2.004
HFP	3.8935	2.6997	3.0596	3.6624	0	0.7029	2.2041	1.6584
LFP	3.1906	1.9968	2.3566	2.9595	0.7029	0	1.5012	0.9555
HFEP	1.6894	0.4956	0.8554	1.4583	2.2041	1.5012	0	0.5457
LFEP	2.2351	1.0413	1.4011	2.004	1.6584	0.9555	0.5457	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

IL-10 mRNA								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	1.2009	1.4321	2.2279	5.7521	4.7656	6.0285	5.2803
LF	1.2009	0	0.2311	1.027	4.5511	3.5647	4.8276	4.0794
HFE	1.4321	0.2311	0	0.7959	4.32	3.3335	4.5964	3.8482
LFE	2.2279	1.027	0.7959	0	3.5242	2.5377	3.8006	3.0524
HFP	5.7521	4.5511	4.32	3.5242	0	0.9865	0.2764	0.4718
LFP	4.7656	3.5647	3.3335	2.5377	0.9865	0	1.2629	0.5147
HFEP	6.0285	4.8276	4.5964	3.8006	0.2764	1.2629	0	0.7482
LFEP	5.2803	4.0794	3.8482	3.0524	0.4718	0.5147	0.7482	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								

NKEF mRNA								
	HF	LF	HFE	LFE	HFP	LFP	HFEP	LFEP
HF	0	1.4083	1.1533	0.3765	3.8983	4.73	3.5719	3.3908
LF	1.4083	0	0.255	1.0318	2.4901	3.3217	2.1636	1.9825
HFE	1.1533	0.255	0	0.7768	2.745	3.5767	2.4186	2.2375
LFE	0.3765	1.0318	0.7768	0	3.5219	4.3535	3.1954	3.0143
HFP	3.8983	2.4901	2.745	3.5219	0	0.8316	0.3265	0.5075
LFP	4.73	3.3217	3.5767	4.3535	0.8316	0	1.1581	1.3392
HFEP	3.5719	2.1636	2.4186	3.1954	0.3265	1.1581	0	0.1811
LFEP	3.3908	1.9825	2.2375	3.0143	0.5075	1.3392	0.1811	0
Kruskal-Wallis Multiple-Comparison Z-Value Test (Dunn's Test): Medians are significantly different if z-value > 1.9600.								