

Table S1. Temporal course for LV capillary and myocardial remodeling during CH-PH.

	Exp.	7 days	21 days	ANOVA
L_{cap} (cm)	Norm	33602±4703	37675±4856	<i>P</i> = 0.60
	CH	38766±4921	45048±3719	
S_{cap} (cm²)	Norm	29.0±8.8	41.5±8.0	<i>P</i> = 0.79
	CH	30.7±4.9	41.6±2.3	
V_{cap} (cm³)	Norm	0.0047±0.0015	0.0063±0.0015	<i>P</i> = 0.73
	CH	0.0055±0.0012	0.0067±0.0006	
V_{myo} (cm³)	Norm	0.068±0.007	0.073±0.006	<i>P</i> = 0.79
	CH	0.061±0.004	0.067±0.003	
V_{LV} (cm³)	Norm	0.083±0.011	0.089±0.009	<i>P</i> = 0.92
	CH	0.078±0.006	0.085±0.004	

Data are reported as mean ± standard deviation for 5 animals per group. *P*-values are for 2-way ANOVA, comparing effects of hypoxia and time on each parameter. L_{cap} = total capillary length; S_{cap} = total capillary surface area; V_{cap} = total capillary lumen volume; V_{myo} = total myocyte volume; V_{LV} = total LV volume.

Table S2. LV hypoxia gene expression profile.

CH Time	Gene Symbol	Gene Name	Genbank	Fold Regulation	P-value
7 days	<i>Eif4ebp1</i>	Eukaryotic translation initiation factor 4E binding protein 1	NM_007918	-2.00	0.041
	<i>Plau</i>	Plasminogen activator, urokinase	NM_008873	-1.50	0.042
21 days	<i>Ankrd37</i>	Ankyrin repeat domain 37	NM_001039562	3.28	0.001
	<i>Anxa2</i>	Annexin A2	NM_007585	1.95	0.006
	<i>Bhlhe40</i>	Basic helix-loop-helix family, member e40	NM_011498	2.71	0.005
	<i>Bnip3</i>	BCL2/adenovirus E1B interacting protein 3	NM_009760	2.19	0.030
	<i>Btg1</i>	B-cell translocation gene 1, anti-proliferative	NM_007569	1.71	0.011
	<i>Egln1</i>	EGL nine homolog 1 (C. elegans)	NM_053207	1.73	0.044
	<i>F3</i>	Coagulation factor III	NM_010171	1.65	0.005
	<i>Hmox1</i>	Heme oxygenase (decycling) 1	NM_010442	2.80	0.003
	<i>Lgals3</i>	Lectin, galactose binding, soluble 3	NM_010705	2.89	0.012
	<i>Lox</i>	Lysyl oxidase	NM_010728	1.78	0.018
	<i>Ndrp1</i>	N-myc downstream regulated gene 1	NM_008681	1.55	0.002
	<i>Per1</i>	Period homolog 1 (Drosophila)	NM_011065	2.64	0.031
	<i>Pfkp</i>	Phosphofructokinase, platelet	NM_019703	1.50	0.006
	<i>Pkm</i>	Pyruvate kinase, muscle	NM_011099	1.90	0.014
	<i>Slc16a3</i>	Solute carrier family 16 (monocarboxylic acid transporters), member 3	NM_030696	2.51	0.011
	<i>Slc2a1</i>	Solute carrier family 2 (facilitated glucose transporter), member 1	NM_011400	2.10	0.003

