

**Table S1. Multiple comparison between all groups**

	Ang-1	Tie2	VEGF-A	VEGF-D	PlGF	VEGFR-2	VEGFR-3	EGF	EGFR	HER2	HER3	HER4	Amphiregulin	HB-EGF	TGF- $\alpha$
CONTROL vs. PAH	>0.9999	>0.9999	<0.0001*	0.0095*	<0.0001*	0.0023*	>0.9999	0.4659	<0.0001*	>0.9999	0.1198	>0.9999	<0.0001*	>0.9999	0.0001*
CONTROL vs. CTEPH	0.4444	0.0423*	<0.0001*	0.0017*	0.0006*	0.0352*	>0.9999	>0.9999	<0.0001*	>0.9999	>0.9999	>0.9999	0.0004*	0.1326	<0.0001*
CONTROL vs. PH-HFpEF	>0.9999	0.0598	<0.0001*	<0.0001*	<0.0001*	<0.0001*	>0.9999	>0.9999	<0.0001*	>0.9999	0.5497	>0.9999	<0.0001*	>0.9999	<0.0001*
CONTROL vs. PH-HFrEF	>0.9999	<0.0001*	0.0006*	<0.0001*	<0.0001*	0.0073*	0.0030*	0.0122*	0.0027*	0.0092*	>0.9999	0.0024*	<0.0001*	>0.9999	<0.0001*
CONTROL vs. NON-PH-HF	>0.9999	0.0245*	0.0120*	0.0672	0.0005*	0.0073*	>0.9999	>0.9999	0.0078*	>0.9999	>0.9999	>0.9999	0.0133*	>0.9999	0.0416*
PAH vs. CTEPH	0.2166	0.3507	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	0.2584	0.1106	>0.9999	>0.9999	0.0105*	>0.9999
PAH vs. PH-HFpEF	>0.9999	0.5362	>0.9999	>0.9999	0.1912	0.3312	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999
PAH vs. PH-HFrEF	>0.9999	<0.0001*	>0.9999	<0.0001*	>0.9999	>0.9999	0.0333*	>0.9999	0.0013*	<0.0001*	0.1863	<0.0001*	>0.9999	>0.9999	>0.9999
PAH vs. NON-PH-HF	>0.9999	0.1949	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	0.2189	0.0571	>0.9999	0.6690	>0.9999	>0.9999	>0.9999
CTEPH vs. PH-HFpEF	>0.9999	>0.9999	>0.9999	>0.9999	0.8866	0.6776	>0.9999	>0.9999	>0.9999	>0.9999	0.5319	>0.9999	>0.9999	0.7964	>0.9999
CTEPH vs. PH-HFrEF	0.0072*	0.5001	>0.9999	0.0097*	>0.9999	>0.9999	0.6456	0.5827	>0.9999	0.2622	>0.9999	0.0925	>0.9999	0.0103*	>0.9999
CTEPH vs. NON-PH-HF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999
PH-HFpEF vs. PH-HFrEF	0.4797	0.0410*	0.5368	0.0043*	0.3131	0.3564	0.1315	0.0949	0.5570	0.0010*	>0.9999	0.0012*	>0.9999	>0.9999	>0.9999
PH-HFpEF vs. NON-PH-HF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999
PH-HFrEF vs. NON-PH-HF	0.5090	>0.9999	>0.9999	0.0014*	>0.9999	>0.9999	0.4143	0.4349	>0.9999	>0.9999	>0.9999	>0.9999	0.5583	0.9294	0.9624

**Table S1. (continued)**

	PDGF subunit A	PDGF subunit B	SRC	LYN	ABL1	EPHA2	EPHB4	AXL	MERTK	SCF	HGF	FGF-BP1	RET
CONTROL vs. PAH	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	<b>0.0009*</b>	>0.9999	>0.9999	<b>0.0089*</b>	<b>0.0073*</b>	<b>&lt;0.0001*</b>	<b>0.0045*</b>	<b>&lt;0.0001*</b>
CONTROL vs. CTEPH	0.6344	>0.9999	>0.9999	>0.9999	>0.9999	0.4177	>0.9999	>0.9999	<b>0.0001*</b>	>0.9999	<b>0.0003*</b>	0.0668	>0.9999
CONTROL vs. PH-HFpEF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	<b>&lt;0.0001*</b>	<b>0.0173*</b>	>0.9999	<b>&lt;0.0001*</b>	0.4753	<b>&lt;0.0001*</b>	0.0613	>0.9999
CONTROL vs. PH-HFrEF	>0.9999	0.4410	>0.9999	0.9378	>0.9999	<b>0.0233*</b>	0.0886	0.1600	<b>&lt;0.0001*</b>	<b>&lt;0.0001*</b>	<b>&lt;0.0001*</b>	<b>&lt;0.0001*</b>	>0.9999
CONTROL vs. NON-PH-HF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	<b>0.0422*</b>	>0.9999	>0.9999	<b>0.0001*</b>	0.3405	<b>&lt;0.0001*</b>	0.8632	>0.9999
PAH vs. CTEPH	0.0658	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	0.2612	>0.9999	>0.9999	<b>0.0088*</b>
PAH vs. PH-HFpEF	>0.9999	>0.9999	>0.9999	>0.9999	<b>0.0276*</b>	>0.9999	<b>0.0434*</b>	0.6204	>0.9999	>0.9999	>0.9999	>0.9999	<b>0.0174*</b>
PAH vs. PH-HFrEF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	0.2738	<b>0.0046*</b>	>0.9999	0.5086	0.2991	>0.9999	<b>0.0017*</b>
PAH vs. NON-PH-HF	>0.9999	>0.9999	>0.9999	>0.9999	0.0785	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	<b>0.0374*</b>
CTEPH vs. PH-HFpEF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	0.0838	0.6903	0.2150	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999
CTEPH vs. PH-HFrEF	<b>0.0344*</b>	0.0507	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	<b>0.0034*</b>	>0.9999	<b>0.0012*</b>	>0.9999	>0.9999	>0.9999
CTEPH vs. NON-PH-HF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	0.8346	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999
PH-HFpEF vs. PH-HFrEF	>0.9999	0.4226	>0.9999	0.5541	0.8982	0.2304	>0.9999	>0.9999	>0.9999	<b>0.0151*</b>	>0.9999	0.7581	>0.9999
PH-HFpEF vs. NON-PH-HF	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999	>0.9999
PH-HFrEF vs. NON-PH-HF	>0.9999	>0.9999	0.7530	0.6887	0.9154	>0.9999	>0.9999	>0.9999	>0.9999	0.6187	>0.9999	0.5476	>0.9999

PAH: pulmonary arterial hypertension; CTEPH: chronic thromboembolic pulmonary hypertension; PH-HFpEF: PH due to diastolic heart failure; PH-HFrEF: PH due to systolic heart failure; NON-PH-HF: heart failure without pulmonary hypertension. Ang-1: angiotensin 1; Tie2: angiotensin receptor TEK tyrosine kinase; VEGF-A and D: vascular endothelial growth factor-A and -D; PlGF: placental growth factor; VEGFR-2 and -3: vascular endothelial growth factor receptor-2 and 3; PDGF subunit A and B: platelet-derived growth factor subunit A and B; HER2: human epidermal growth factor receptor 2; HER3: human epidermal growth factor receptor 3; HER4: human epidermal growth factor receptor 4; EGF: epidermal growth factor; EGFR: epidermal growth factor receptor; HB-EGF: heparin-binding EGF-like growth factor; TGF- $\alpha$ : transforming growth factor  $\alpha$ ; SRC: proto-oncogene tyrosine-protein kinase Src; LYN: tyrosine-protein kinase Lyn; ABL-1: tyrosine-protein kinase ABL1; EPHA2: ephrin type-A receptor 2; EPHB4: ephrin type-B receptor 4; AXL: tyrosine-protein kinase receptor UFO; MERTK: tyrosine-protein kinase MER; SCF: stem cell factor; HGF: hepatocyte growth factor; FGF-BP1: fibroblast growth factor-binding protein 1; RET: proto-oncogene tyrosine-protein kinase receptor Ret. Variables are presented as p-values (Kruskal-Wallis test). \* indicates p<0.05.

