



Defect of Adaptation to Hypoxia in Patients With COPD Due to Reduction of Histone Deacetylase 7

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e-Table 1. Patient Characteristics (Peripheral lung tissue obtained from a tissue bank)

	Non-smokers	Smokers without COPD	COPD
N	8	7	19
Age (yr)	57±18	62±11	59±8
Sex (F:M)	4 : 4	3 : 4	11 : 8
Pack-year	0 ± 0	49± 27	44 ± 19
FEV ₁ (L)	3.12 ±0.89	3.08 ±1.01	1.36 ±0.77***, ++
FEV (%predicted)	100 ±15	103 ±10	46 ±23***, +++
FEV ₁ /FVC (%)	81 ±3	76 ±5	49 ±12***, +++

FEV: forced expiratory volume, FEV₁: forced expiratory volume in 1 second

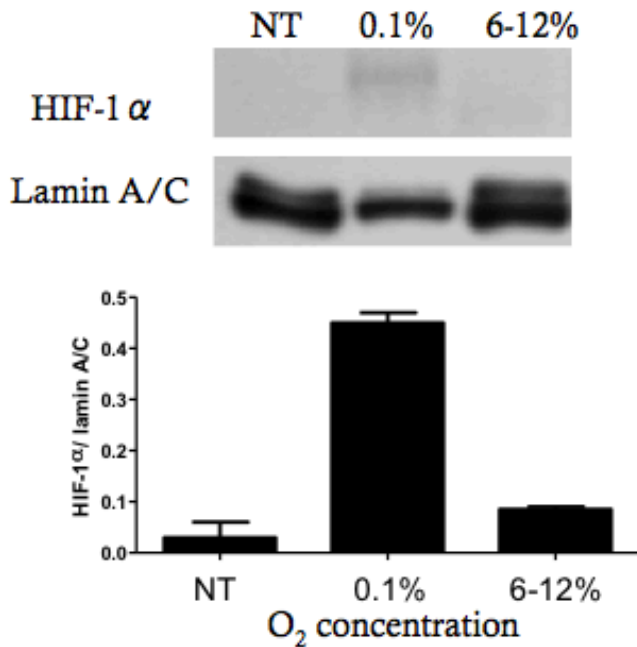
***: p>0.001 compared to non-smokers, +++: p>0.001 compared to smokers,

++: p>0.01 compared to smokers

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e-Figure 1.

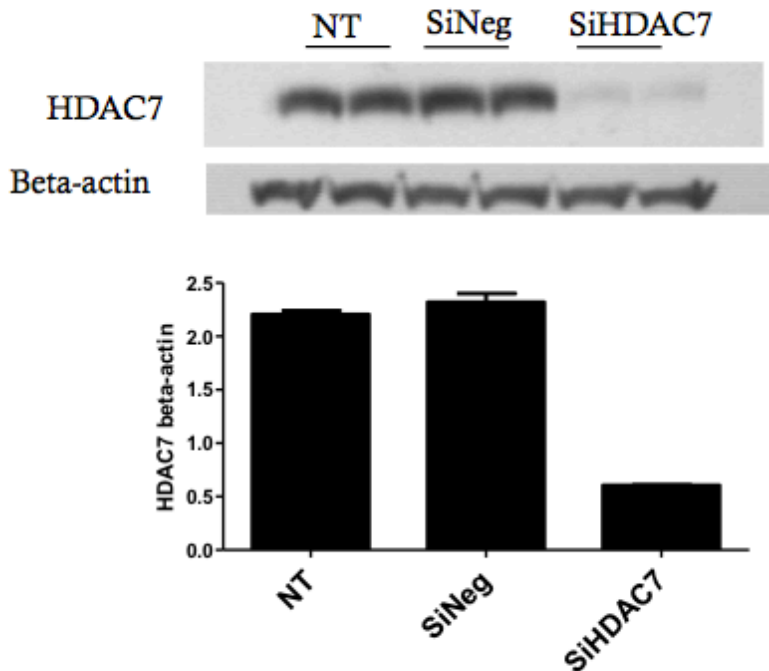


e-Figure 1. Optimization of hypoxia system

A549 cells were incubated in hypoxic condition (0.1% O₂, 5% CO₂, or 6-12% O₂, 5% CO₂) for 24 hrs. Nuclear protein was extracted and HIF-1α protein was detected. HIF-1α protein was normalised by lamin A/C.



e-Figure 2.



e-Figure 2. Effect of siRNA transfection (HDAC7) on HDAC7 protein expression
Short interference RNA of HDAC7 was transfected to A549, and then cells were incubated 24 hrs, followed by measurement of HDAC7 protein in whole cell extract. HDAC7 protein was normalised by beta-actin.