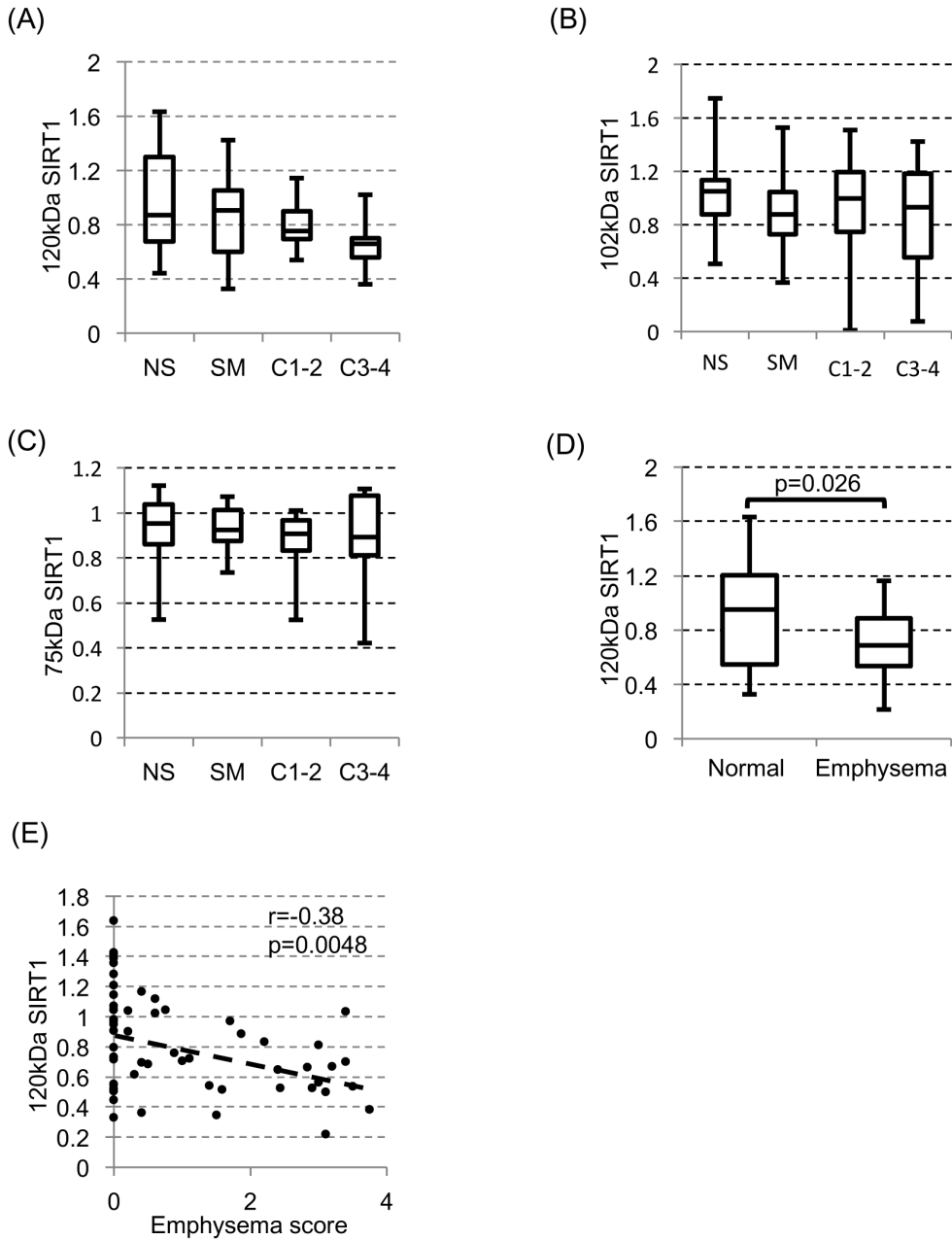# Decreased Serum Sirtuin-1 in COPD

Satoru Yanagisawa, MD, PhD; Andriana I. Papaioannou, MD, PhD;
Anastasia Papaporfyriou, MD, PhD; Jonathan R. Baker, PhD; Chaitanya Vuppusetty, MSc;
Stelios Loukides, MD, PhD; Peter J. Barnes, DM, DSc; and Kazuhiro Ito, DVM, PhD

e-Figure 1

e-Figure 1. Reduced levels of serum 120kDa SIRT1 (s120S) protein in COPD and correlation with Emphysema. The levels of SIRT1 at 120 kDa (A), 102kDa (B) and 75kDa (C) in serum from healthy non-smoker subjects (NS), smokers without COPD (SM) and COPD patients (C1-2 or C3-4 disease stage). Comparison of SIRT1 120KDa between subjects with normal lung and with emphysema (D) and correlation between SIRT1 120KDa and emphysema score in all subjects (E).

e-Table 1. The Spearman's correlation coefficient rank test between the serum SIRT1 (120kDa) and patient characteristics

	COPD Stage 1-2		COPD Stage 3-4	
	r	p	r	p
BMI	0.35	0.22	0.32	0.26
Pack-year	-0.070	0.81	-0.23	0.43
FEV_1/FVC	0.38	0.19	-0.0055	0.98
Emphysema Score	-0.51	0.080	-0.069	0.81
Kco % predicted	0.44	0.17	-0.14	0.62
FEV_1 % predicted	0.18	0.53	0.47	0.10
$PaO_2/PaCO_2$	-0.24	0.41	0.26	0.37
RV % predicted	-0.51	0.090	0.050	0.86
IC % predicted	-0.83	0.018	0.25	0.46
DLCO % predicted	0.27	0.38	0.19	0.52
PaO_2 / FiO_2	-0.25	0.40	0.094	0.74
PaO_2	-0.25	0.40	-0.072	0.80
6MWD	0.47	0.11	0.35	0.22
Dsat	-0.19	0.50	0.32	0.27
FVC % predicted	-0.099	0.73	0.41	0.16
$AaDO_2$	0.18	0.53	-0.14	0.62
FRC % predicted	-0.15	0.61	0.028	0.93
RV/TLC	-0.20	0.50	0.27	0.35
$PaCO_2$	0.16	0.59	-0.16	0.57
TLC % predicted	-0.12	0.68	-0.082	0.78

Abbreviations: r = correlation coefficient; p = probability value.

170106