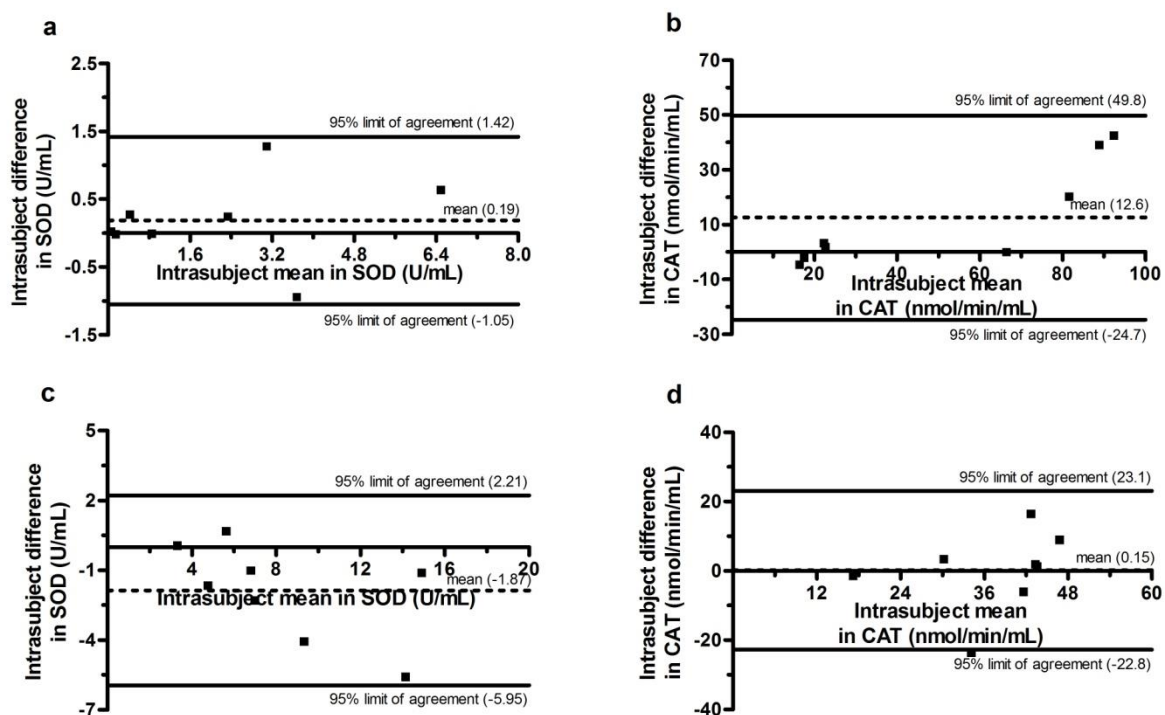


Supplementary Figure 1. Repeatability of superoxide dismutase (SOD) and catalase (CAT) measurements in sputum (a and b) and serum (c and d) of stable COPD patients, as reflected by the Bland-Altman test.



Supplementary Table 1. Total and differential sputum cell counts in study subjects.

	Healthy controls	Stable COPD	AECOPD	
			At admission	After treatment
Total cell counts				
×10 ⁶ /g	0.30 (0.22-0.69)	0.96 (0.50-1.90) [§]	1.78 (0.51-7.40) [*]	1.36 (0.46-2.52) [#]
Neutrophils				
%	78.6 (67.6-88.5)	88.6 (75.7-92.5)	94.2 (86.3-96.6)	92.5 (87.0-96.8)
×10 ⁶ /g	0.28 (0.20-0.51)	0.66 (0.43-1.47) [§]	1.91 (0.46-7.10) [*]	1.34 (0.49-2.95) [#]
Macrophages				
%	16.2 (7.9-30.1)	6.79 (4.57-11.2)	1.66 (0.48-3.84)	2.66 (1.22-5.39)
×10 ⁵ /g	0.76 (0.21-1.10)	0.51 (0.29-1.92)	0.27 (0.08-1.56)	0.66 (0.08-0.85)
Lymphocytes				
%	3.1 (0.84-4.72)	4.02 (2.09-5.29)	3.34 (1.61-5.03)	2.74 (1.29-5.40)
×10 ⁴ /g	0.85 (0.40-6.91)	2.28 (1.17-4.62)	5.48 (1.77-21.6) [*]	4.1 (1.1-10.5) [#]
Eosinophils				
%	0.0 (0.0-0.50)	0.0 (0.0-2.27)	0.0 (0.0-0.92)	0.0 (0.0-0.47)
×10 ⁴ /g	0.0 (0.0-0.22)	0.0 (0.0-2.31)	0.0 (0.0-1.56)	0.0 (0.0-0.68)

Data are presented as median (interquartile ranges). ^{*}p<0.05 vs. stable COPD, [#]p<0.05 vs.

admission, [§]p<0.05 vs. healthy controls

Supplementary Table 2. Repeatability of superoxide dismutase (SOD) and catalase (CAT) measurements in sputum and serum of stable COPD patients.

	Enzyme activity [†]		CV (%)		
	1. sample	2. sample			
SOD (U/mL)					
Sputum	1.65 (0.39-3.47)	1.53 (0.22-3.3)	18.2	±	5.6
Serum	6.13 (4.89-9.32)	7.71 (5.44-13.4)	16.5	±	4.0
CAT (nmol/min/mL)					
Sputum	45.2 (20.1-100)	44.1 (19.7-70.2)	15.7	±	4.2
Serum	41.4 (27.1-47.6)	42.3 (31.4-43.7)	14.9	±	5.6

Data are presented as mean ± SEM unless stated otherwise. CV: coefficient of variation,

[†]median (interquartile ranges)