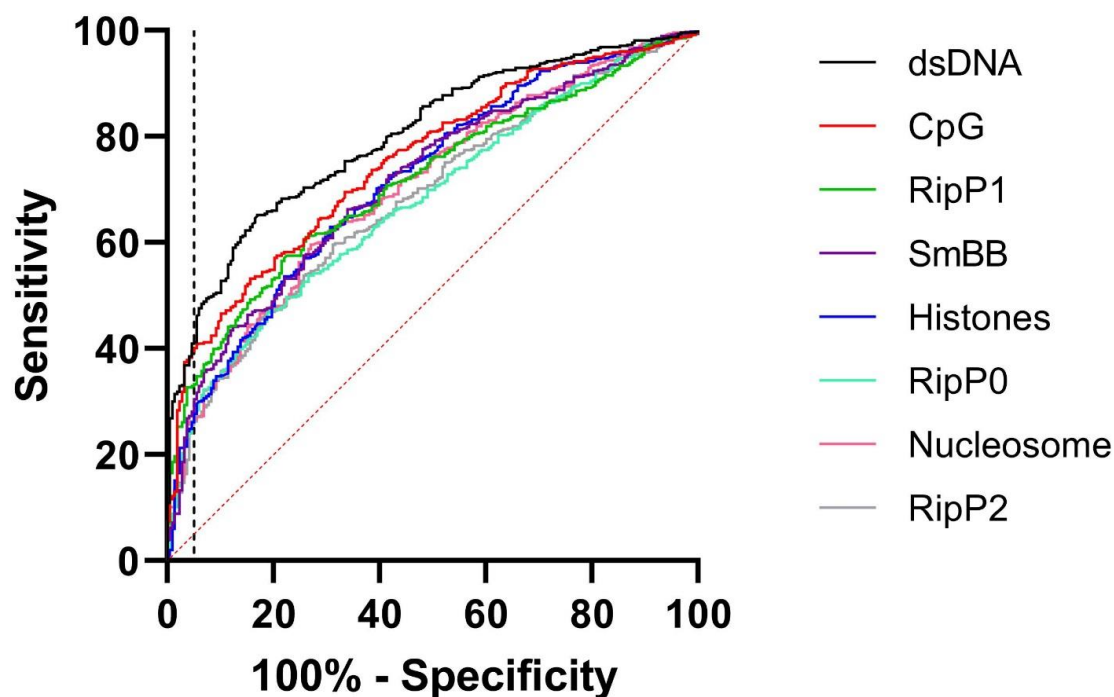


Supplementary file 3**Additional results**

ROC Curve for top variables, SLE vs non-IMID.
Specificity set at 95% (95th percentile of non-IMID).

ROC curve of most prevalent autoantibodies



AUC values:

Autoantibody	AUC	Prevalence / Sensitivity at 95% specificity	Accuracy (TP+TN/P+N)
dsDNA	0.800	41.2%	57.9%
CpG	0.753	40.2%	57.2%
Rip P1	0.714	33.3%	52.5%
SmBB	0.714	30.4%	50.5%
Histones	0.716	27.7%	48.6%
Rip P0	0.677	27.5%	48.5%
Nucleosome	0.704	26.7%	47.9%
Rip P2	0.682	26.3%	47.6%

Sensitivity/specificity for Lupus nephritis

Autoantibody	AUC	Prevalence/sensitivity	Specificity	Accuracy (TP+TN/P+N)
dsDNA	0.589	47.2%	61.8%	56.9%
CpG	0.582	47.8%	63.7%	58.4%
Rip P1	0.553	37.9%	68.9%	58.6%
SmBB	0.552	36.6%	72.7%	60.7%
Histones	0.551	34.2%	75.5%	61.7%
Rip P0	0.542	27.5%	72.4%	57.3%
Nucleosome	0.584	27.3%	77.0%	62.7%
Rip P2	0.543	34.2%	74.2%	58.6%
CMV	0.579	31.7%	82.3%	65.4%
ASCA	0.553	8.1%	98.4%	68.3%
CpG + dsDNA ($p=0.004$)	NA	13.3%	73.0%	61.9%

2x2 tables anti-dsDNA x anti-CpG

SLE patients only

	DsDNA pos	DsDNA neg	Total
CpG pos	151	43	194
CpG neg	48	241	289
Total	199	284	483

All patients (including BBD)

	DsDNA pos	DsDNA neg	Total
CpG pos	189	139	328
CpG neg	93	1459	1552
Total	282	1598	1880

p-values between different groups in Figure 2 (Chi-square)

Anti-dsDNA (fig. 2A)

	Non-IMID	Rest	BBD	IMID
SLE	<0.001	<0.001	<0.001	<0.001
Non-IMID	X	ns	0.004	0.005
Rest	X	X	<0.001	<0.001
BBD	X	X	X	<0.001
IMID	X	X	X	X

Anti-CpG (fig. 2B)

	Non-IMID	Rest	BBD	IMID
SLE	<0.001	<0.001	<0.001	<0.001
Non-IMID	X	ns	ns	<0.001
Rest	X	X	ns	0.002
BBD	X	X	X	<0.001
IMID	X	X	X	X

Anti-Ro60 (fig. 2C)

	Non-IMID	Rest	BBD	IMID
SLE	<0.001	<0.001	<0.001	0.001
Non-IMID	X	ns	<0.001	<0.001
Rest	X	X	<0.001	<0.001
BBD	X	X	X	<0.001
IMID	X	X	X	X