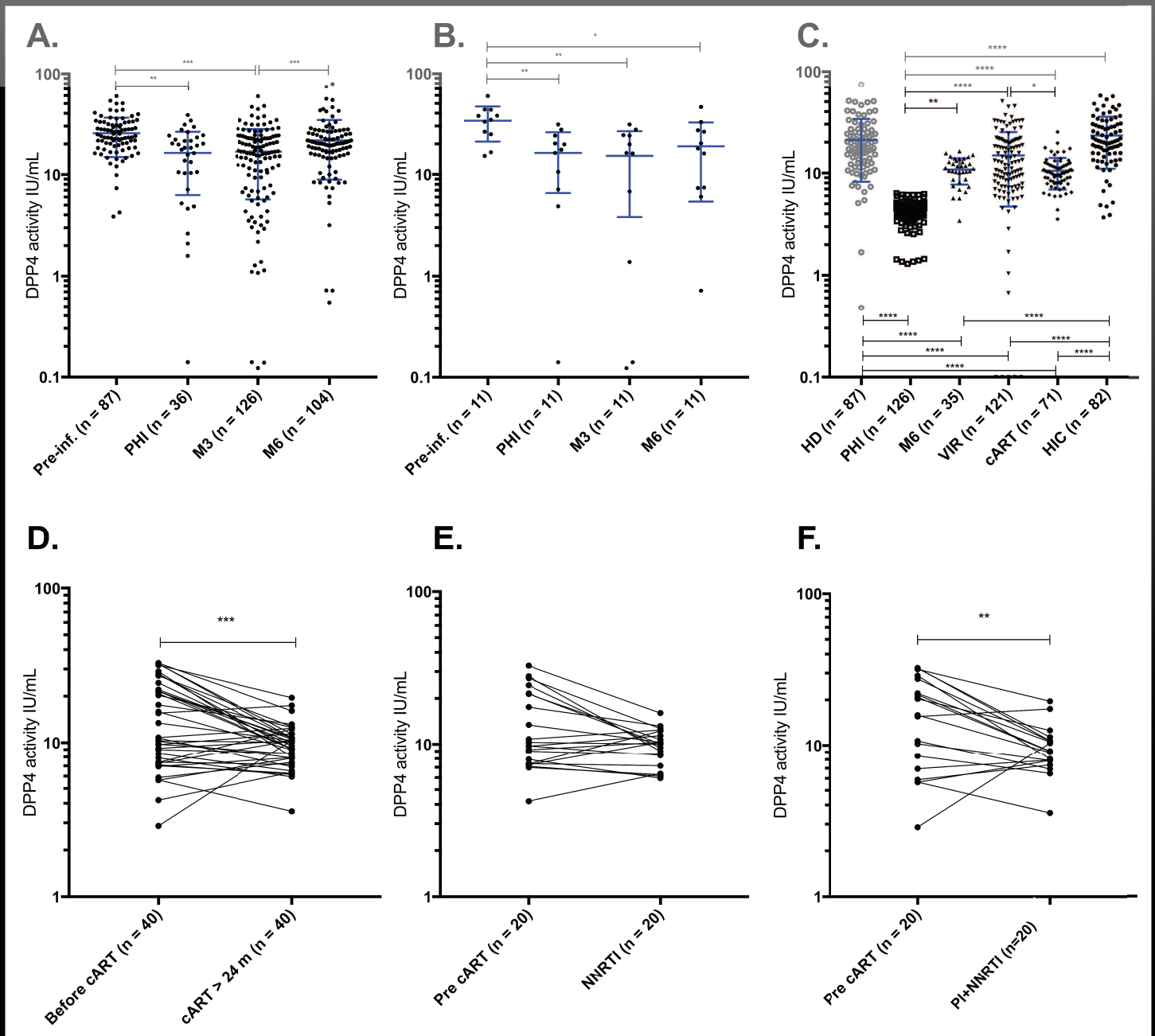

A.
B.
C.
D.
E.
F.
DPP4 activity IU/mL
Pre-inf. (n = 87)
PHI (n = 36)
M3 (n = 126)
M6 (n = 104)
Pre-inf. (n = 11)
PHI (n = 11)
M3 (n = 11)
M6 (n = 11)
HD (n = 87)
PHI (n = 126)
M6 (n = 35)
VIR (n = 121)
cART (n = 71)
HIC (n = 82)
Before cART (n = 40)
cART > 24 m (n = 40)
Pre cART (n = 20)
NNRTI (n = 20)
Pre cART (n = 20)
PI+NNRTI (n=20)

Figure 1

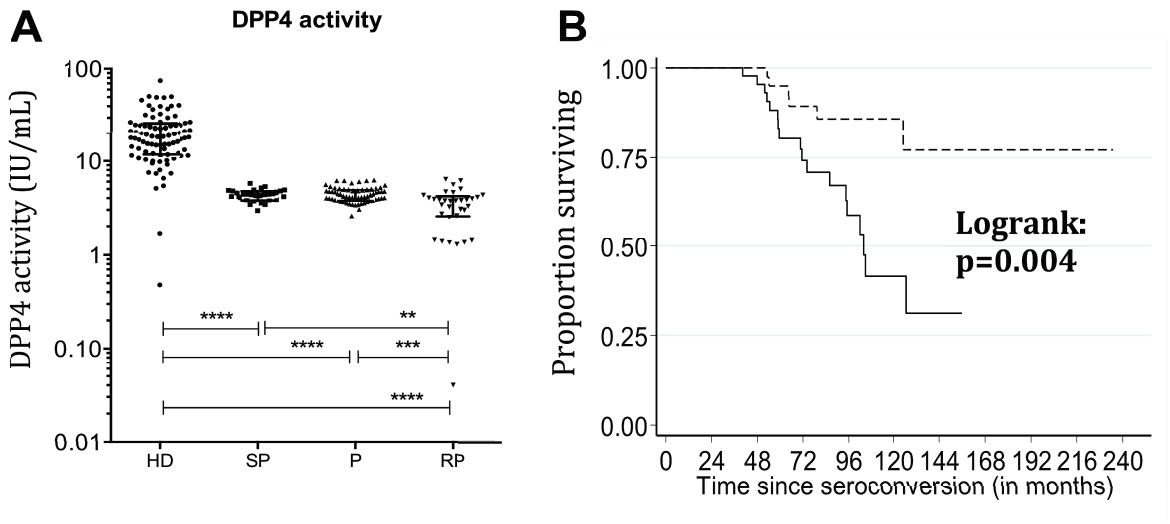

A
DPP4 activity
DPP4 activity (IU/mL)
100
10
1
0.10
0.01
HD
SP
P
RP
****
**
****
***
****
B
Proportion surviving
1.00
0.75
0.50
0.25
0.00
Logrank:
p=0.004
0 24 48 72 96 120 144 168 192 216 240
Time since seroconversion (in months)

Figure 2

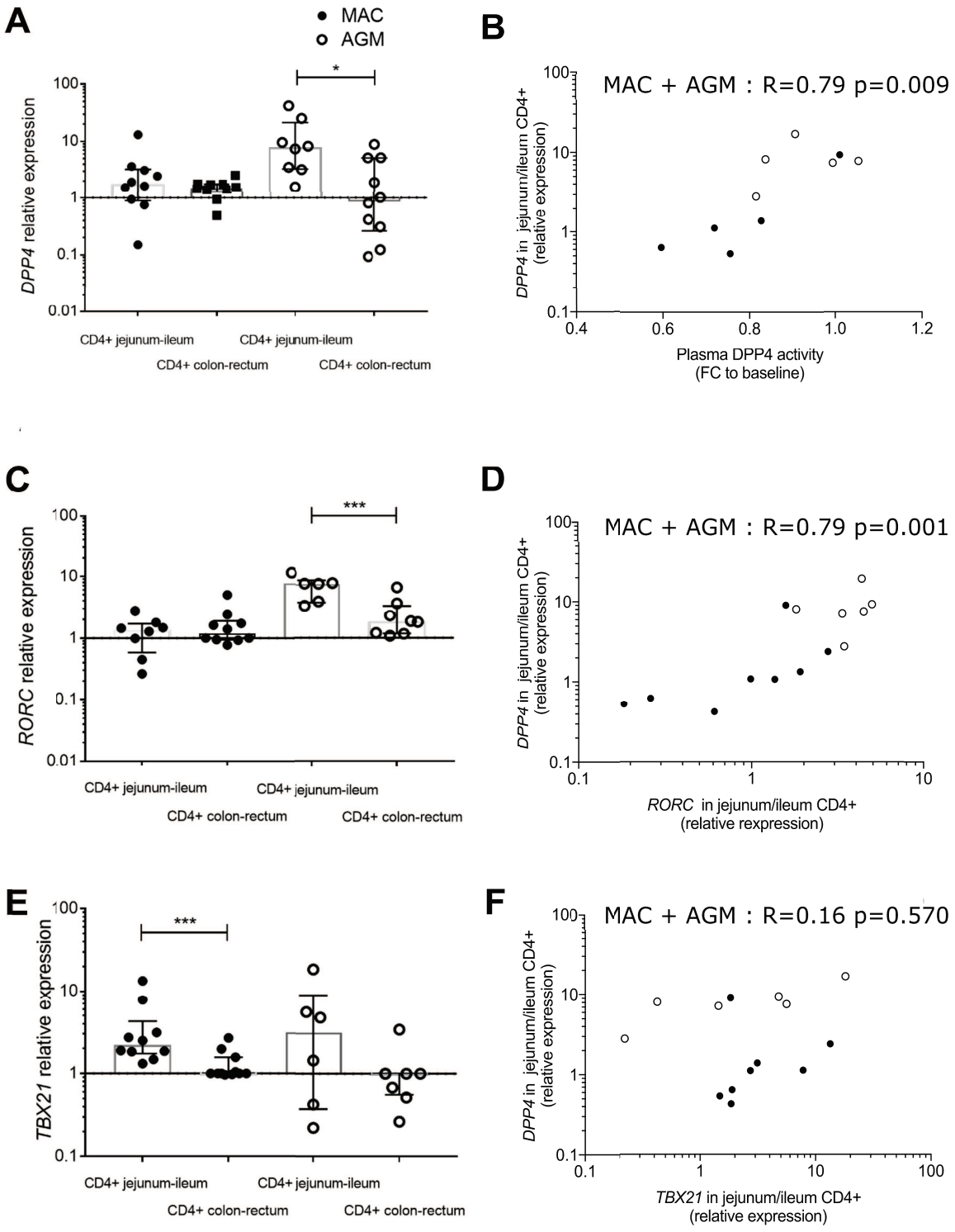

A
MAC
AGM
*
DPP4 relative expression
100
10
1
0.1
0.01
CD4+ jejunum-ileum
CD4+ colon-rectum
CD4+ jejunum-ileum
CD4+ colon-rectum
B
MAC + AGM : R=0.79 p=0.009
DPP4 in jejunum/ileum CD4+ (relative expression)
Plasma DPP4 activity (FC to baseline)
0.4
0.6
0.8
1.0
1.2
C
***
RORC relative expression
D
MAC + AGM : R=0.79 p=0.001
DPP4 in jejunum/ileum CD4+ (relative expression)
RORC in jejunum/ileum CD4+ (relative rexpression)
E
***
TBX21 relative expression
F
MAC + AGM : R=0.16 p=0.570
DPP4 in jejunum/ileum CD4+ (relative expression)
TBX21 in jejunum/ileum CD4+ (relative expression)

Figure 3

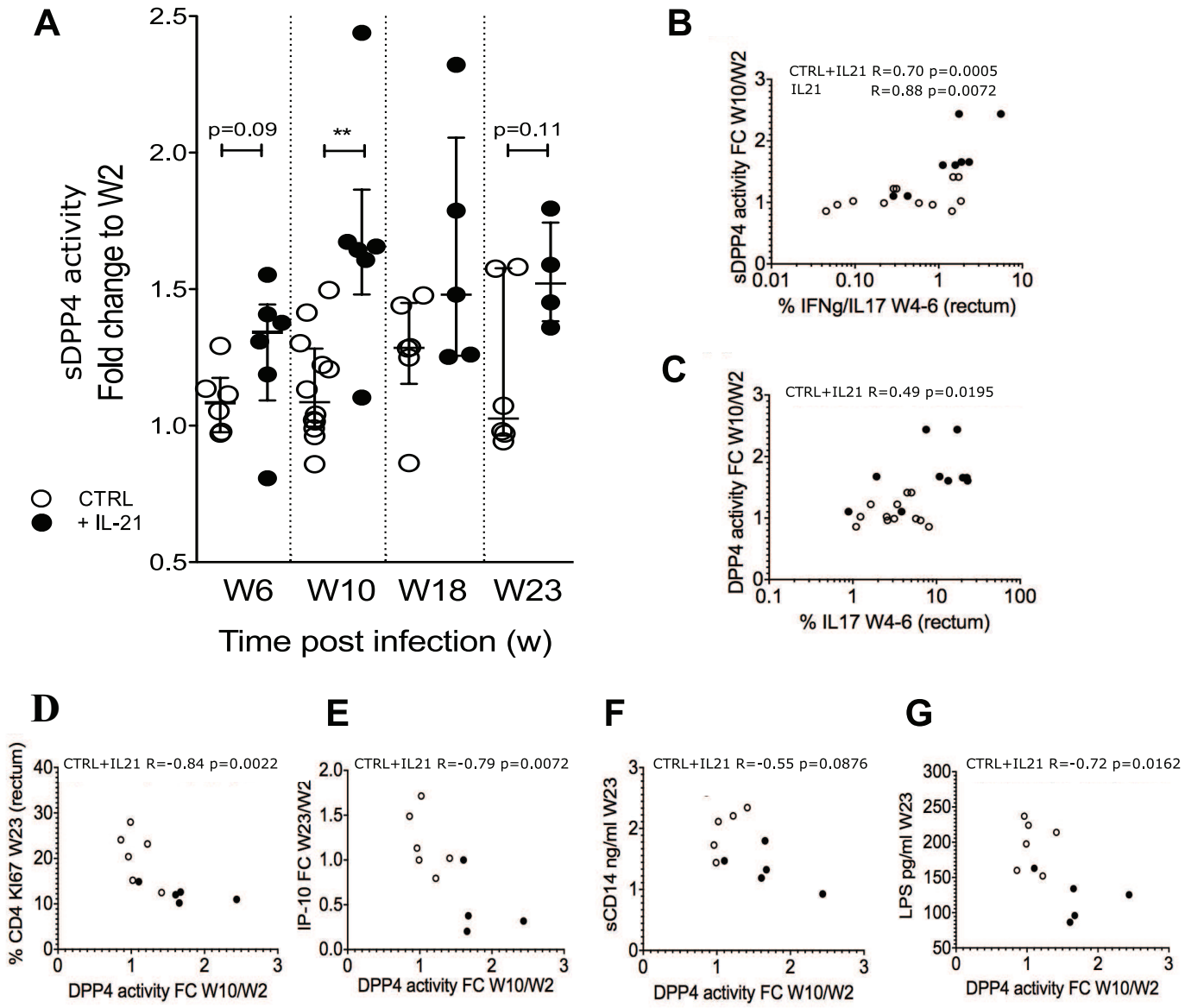

A
sDPP4 activity
Fold change to W2
p=0.09
**
p=0.11
CTRL
+ IL-21
W6
W10
W18
W23
Time post infection (w)
B
CTRL+IL21 R=0.70 p=0.0005
IL21 R=0.88 p=0.0072
sDPP4 activity FC W10/W2
% IFNg/IL17 W4-6 (rectum)
C
CTRL+IL21 R=0.49 p=0.0195
DPP4 activity FC W10/W2
% IL17 W4-6 (rectum)
D
CTRL+IL21 R=-0.84 p=0.0022
% CD4 KI67 W23 (rectum)
DPP4 activity FC W10/W2
E
CTRL+IL21 R=-0.79 p=0.0072
IP-10 FC W23/W2
DPP4 activity FC W10/W2
F
CTRL+IL21 R=-0.55 p=0.0876
sCD14 ng/ml W23
DPP4 activity FC W10/W2
G
CTRL+IL21 R=-0.72 p=0.0162
LPS pg/ml W23
DPP4 activity FC W10/W2

Figure 4

A) DPP4

>Hum DPP4
GAGGAAGTGGTTACCAAGGAGATAAGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATC
AAATTGAAGCAGCCAGACAATTTTCAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCAT
ATGGAGGGTACGTAACCTCAATGGTCCTGGG

>AGM DPP4
GAGGAAGTGGTTACCAAGGAGATAAGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATC
AAATTGAAGCAGCCAGACAATTTTCAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCAT
ATGGAGGGTACGTAACCTCAATGGTCCTGGG

>MAC DPP4
GAGGAAGTGGTTACCAAGGAGATAAGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATC
AAATTGAAGCAGCCAGACAATTTTCAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCAT
ATGGAGGGTACGTAACCTCAATGGTCCTGGG

B) TBX21

>Hum TBX21
TGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCC
TGTCATTTACTGTGGCCGGGCTGGAGCCCACCAGCCACTACAGGATGTTT

>AGM TBX21
TGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCC
TGTCATTTACGGTGGCTGGGCTGGAGCCCACTAGCCACTACAGGATGTTT

>MAC TBX21
TGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCC
TGTCATTTACGGTGGCTGGGCTGGAGCCCACTAGCCACTACAGGATGTTT

C) RORC

>Hum RORC
AGCTGGCCTTTCATCATCATCTCTGCAAGACTCATCGCCAAAGCATCCTGGCAAAGCTGCCACCCAAGGGGAAGC
TTCGGAGCCTGTGTAGCCAGCATGTGGAAAGGCTGCAGATCTTCCAGCAC

>AGM RORC
AGCTGGCATTTCATCATCATCTCTGCAAAACTCATCGCCAAAGCATCCTGGCAAAGCTGCCACCCAAGGGGAAGC
TTCGGAGCCTGTGTAGCCAGCACATGGAAAGGCTGCAGATCTTCCAGCAC

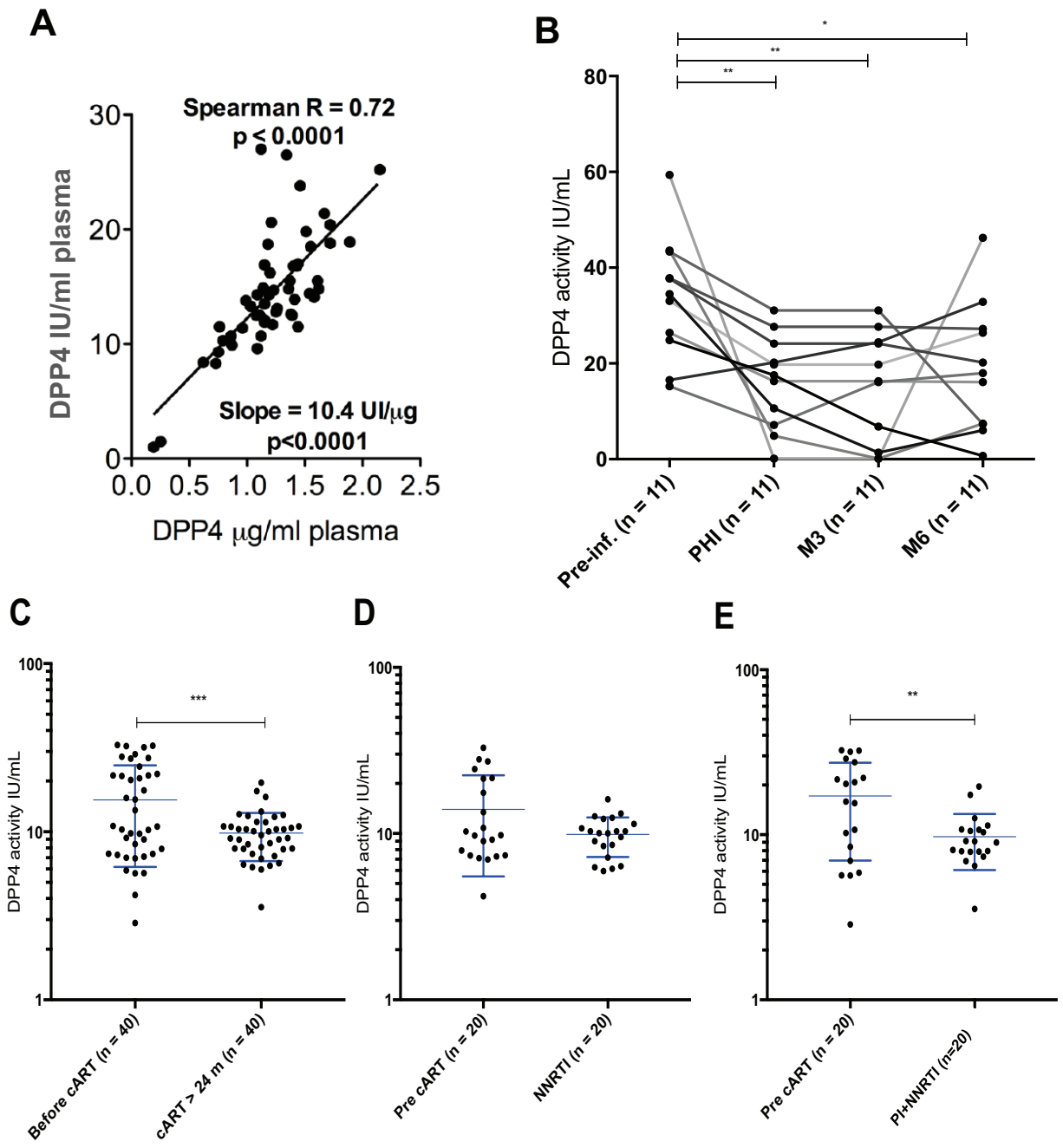
>MAC RORC
AGCTGGCCTTTCATCATCATCTCTGCAAAACTCATCGCCAAAGCATCCTGGCAAAGCTGCCACCCAAGGGGAAGC
TTCGGAGCCTGTGTAGCCAGCACGTGGAAAGGCTGCAGATCTTCCAGCAC

D) 18S

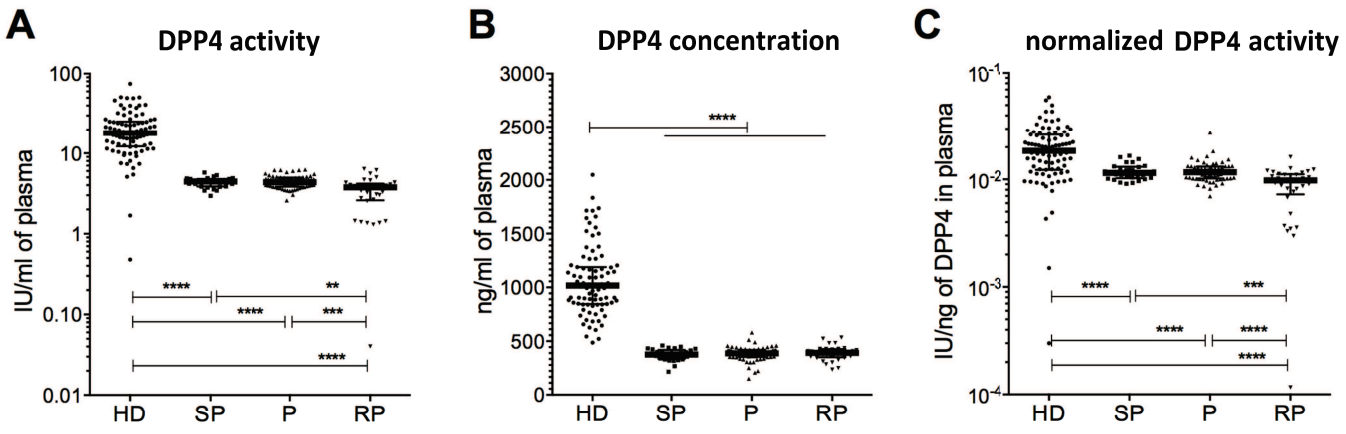
>Hum 18S
CAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACC
CACTCCCGACCCGGGGAGGTAGTGACGAAAAATAACAATACAGGACTCTTTCGAGGCCCTGTAATTGGAATGAGT
CCACTTTAAATCCTTTAACGAGGATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAA
TAGCGTATATTAAAGTTGCTGCAGTTAAAAAGCTCGTAGTTGGATCTTGGGAGCGGGCGGGCGGTCCGCCGCGAG
GCGAGCCACCGCCCGTCCCCGCCCCTTGCCTCTCGGCGCCCCCTCGATGCTCTTAGCTGAGTGTCCCGCGGGGCC

>MAC
CAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACC
CACTCCCGACCCGGGGAGGTAGTGACGAAAAATAACAATACAGGACTCTTTCGAGGCCCTGTAATTGGAATGAGT
CCACTTTAAATCCTTTAACGAGGATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAA
TAGCGTATATTAAAGTTGCTGCAGTTAAAAAGCTCGTAGTTGGATCTTGGGAGCGGGCGGGCGGTCCGCCGCG
CGAGGCGAGCCACCGCCCGTCCCCGCCCCCTTGCCTCTCGGCGCCCCCTCGATGCTCTTAGCTGAGTGTCCCGCG
GGGCC

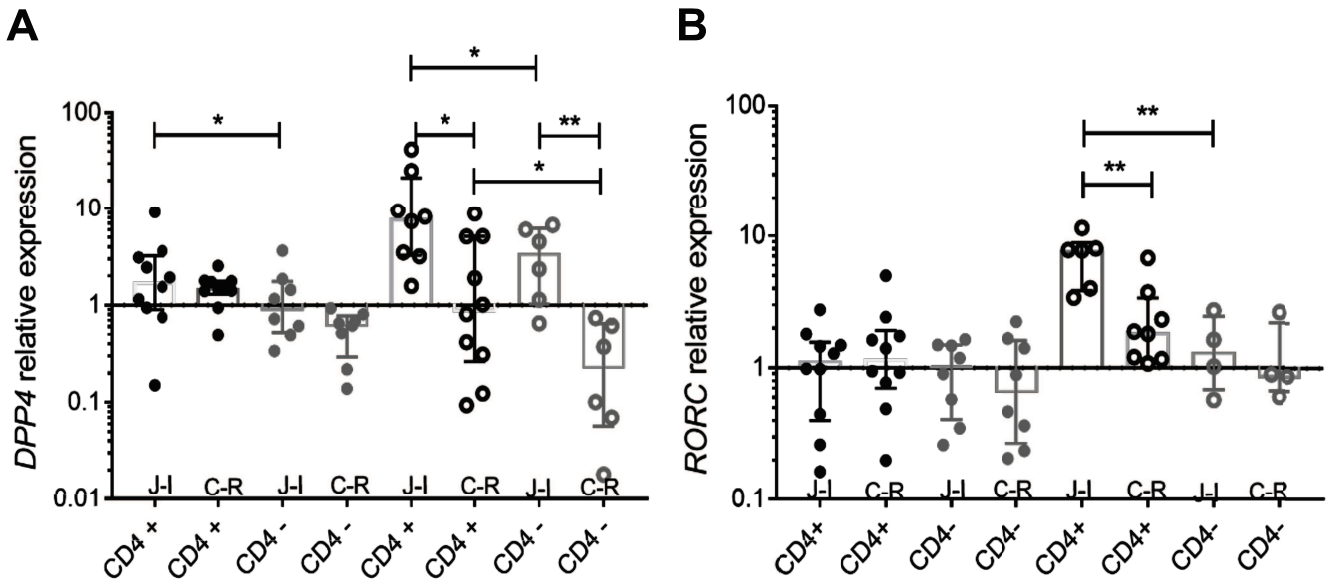
Supplementary Figure 1



Supplementary Figure 2



Supplementary Figure 3



Supplementary Figure 4