Fig 3

A, B  

\[ r = 0.5687 \]
\[ p = 0.0071 \]
\[ n = 21 \]

\[ r = 0.3418 \]
\[ p = 0.1793 \]
\[ n = 17 \]

C  

(i)  

(ii)  

(iii)  

(iv)  

D, E  

\[ \text{AC}^+ \text{MP} \] (% of AC)  

Young Aged  

\[ 0.0100 \]

\[ 0.4503 \]

F  

\[ \text{MPs with tethered ACs} \] (% of AC)  

\[ 0.0219 \]

G  

\[ \text{Internal AC}^+ \text{MP} \] (% of AC)  

\[ 0.0084 \]

H  

\[ \text{AC}^+ \text{MP} \] (% of AC)  

\[ 0.6799 \]

\[ 0.0084 \]

\[ r = 0.5687 \]
\[ p = 0.0071 \]
\[ n = 21 \]

\[ r = 0.3418 \]
\[ p = 0.1793 \]
\[ n = 17 \]

\[ \text{~60%} \]

\[ \text{~40%} \]
Fig 4

A

B

C

D

E

F

G

H

Fig 4
**Pre-study**

**Consent and screening**

**Losmapimod (15mg BID/PO)**

**Blood**

-72 -48 -24 0 24 72 (Hours)

**Topical cantharidin (0.1%)**

**Blister harvesting**

---

**Fig 6**

A. Schematic diagram of the study protocol.

B. Graph showing Serum TNF-α (pg/ml) across Pre-Post.

C. Graph showing Blister TNF-α (pg/ml) across Ctrl and Los.

D. Graph showing PMNs (n) across Ctrl and Los.

E. Graph showing % CD16^hi Annexin^+ (of granulocytes) across Ctrl and Los.

F. Graph showing LDH Activity (U/mg protein) across 24h and 72h.

G. Graph showing TIM4 Expression (gMFI RFU) across Ctrl and Los.

H. Graph showing MerTK Expression (gMFI RFU) across Ctrl and Los.

I. Graph showing ΔPMNs (n x 10^5) across 24h MPNs (n x 10^4) with correlation coefficients.

J. Graph showing CCR7 Expression (gMFI RFU) across Ctrl and Los.

K. Graph showing TGF-β (pg/ml) across Ctrl and Los.

---

Young  Aged  Losmapimod
Supplementary Fig 1

Exudate Volume (µl)

log(Total Blister Cells)

r = 0.6361
p < 0.0001
n = 35

r = 0.2569
p = 0.1489
n = 33

• Young

• Aged
Supplementary Fig 5

A

% Live PMNs

0h 1h 2h 4h 8h 24h

- Young
- Young + FAS
- Old
- Old + FAS

B

C

D

TNFR1 (gMFI)

10^2 10^3

Young Aged

NS

TNFR2 (gMFI)

10^2 10^3

Young Aged

NS

Fas (gMFI)

10^3 10^4

Young Aged

NS
Supplementary Fig 6

A

\[ \Delta \text{PMNs} \times 10^5 (24\text{h} - 48\text{h}) \]

PMNs \times 10^6 (n/blister)

\[ r = 0.8466 \]
\[ p = 0.0335 \]
\[ n = 6 \]

\[ r = -0.3494 \]
\[ p = 0.4424 \]
\[ n = 7 \]

B

PMN (\log[n/blister])

[TNF\alpha] (pg/ml)

\[ r = 0.7533 \]
\[ p = 0.0029 \]

C

PMN (\log[n/blister])

[TNF\alpha] (pg/ml)

\[ r = -0.1505 \]
\[ p = 0.6406 \]
Supplementary Fig 7

A

B

C

D

E
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<th></th>
<th>BF</th>
<th>CD14</th>
<th>DAPI</th>
<th>P-STAT3</th>
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Supplementary Fig 9
Supplementary Fig 11

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z