Figure 1: one column, 89mm width
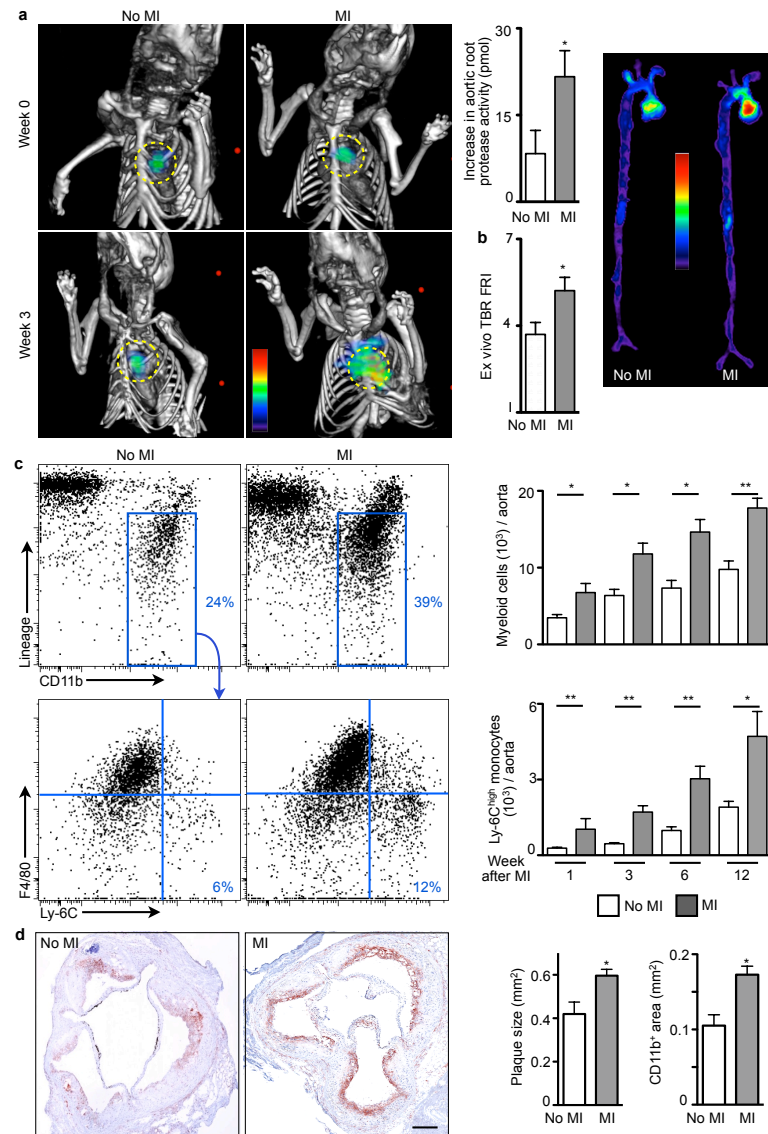

a

No MI | MI

Week 0

Week 3

Increase in aortic root protease activity (pmol)

No MI | MI

*

b

Ex vivo TBR FRI

No MI | MI

*

No MI | MI

c

No MI | MI

Lineage

CD11b

24% | 39%

F4/80

Ly-6C

6% | 12%

Myeloid cells (10³) / aorta

* | * | * | **

Ly-6C^{high} monocytes (10³) / aorta

** | ** | ** | *

Week after MI: 1 | 3 | 6 | 12

No MI | MI

d

No MI | MI

Plaque size (mm²)

No MI | MI

*

CD11b⁺ area (mm²)

No MI | MI

*

Figure 2: one column, 89mm width
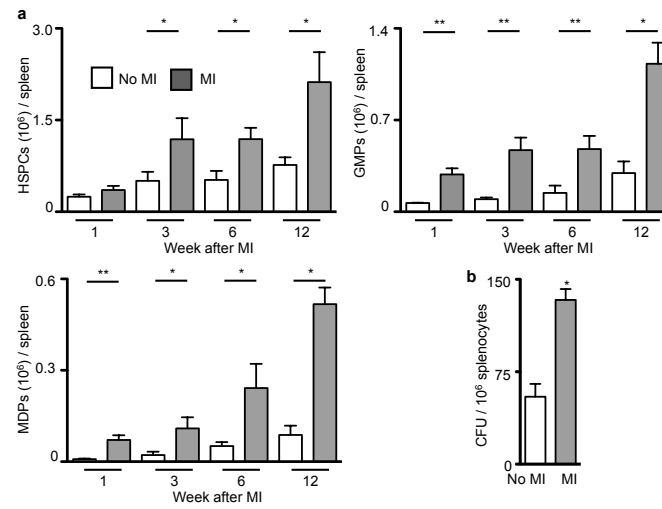
Figure 3: 1.33 columns, 120mm width

a

No MI   MI   MI + β₃ blocker

Lin + IL7R ↑
c-kit →

0.007%   0.036%   0.015%

SSC-A ↑
Sca-1 →

5.6%   25.1%   11.9%

HSPCs (10^2/ ml blood)

*   **   **

6h   2d   4d

Time after MI

☐ No MI
▨ MI
■ MI + β₃ blocker

b

no MI

day 1 post MI

% of TH⁺ area

**

No MI   MI

c

CXCL12
Relative mRNA expression
**   **

Angiopoietin

SCF
Relative mRNA expression
**   **

VCAM-1
**
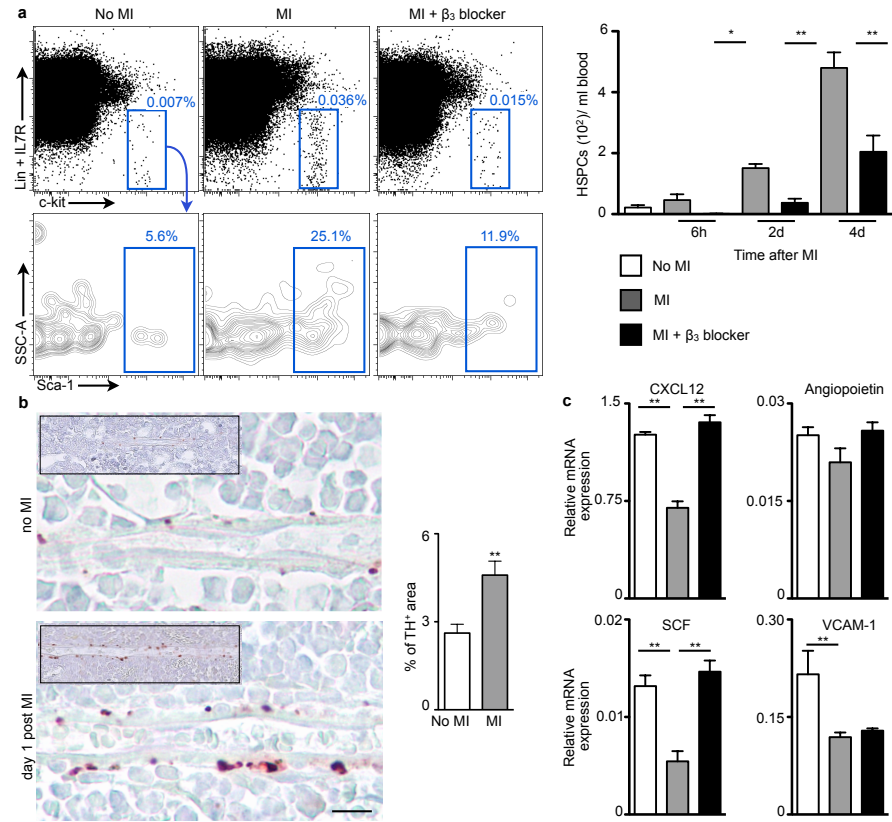
Figure 4: one column, 89mm width

a

	No MI	MI	MI + β_3 blocker
1st IVM			
2nd IVM			

b

Number of DiD$^+$ cells at 2nd IVM (%)

MI	–	+	+
β_3 blocker	–	–	+
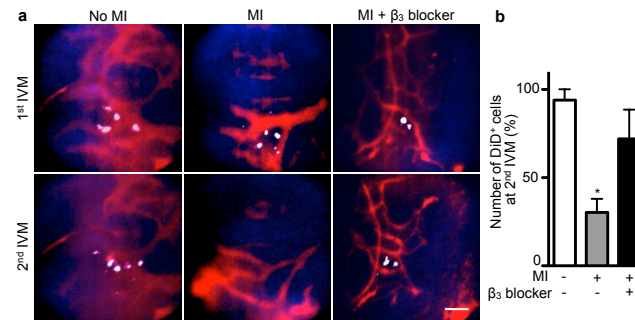
Figure 5: two columns, 180mm width

a

SCF mRNA

0.14

0.07

0

No MI | d2 post MI | d4 post MI

b

SCF+ cells / mm²

1

0.5

0

No MI | d2 post MI | d4 post MI

c

No GFP+ cells

MI + control IgG + GFP+ cells

MI + anti-SCF + GFP+ cells

GFP →
c-kit →

0%

1.3%

0.5%

GFP+ HSPCs / spleen

140

70

0

control IgG | anti-SCF

**

d

No BrdU

MI + control IgG + BrdU

MI + anti-SCF + BrdU

BrdU →
c-kit →

0%

57%

16%

BrdU+ HSPCs [%]

60

0

control IgG | anti-SCF

**

e

heart failure
anxiety
pain

SNS activation
noradrenalin
β₃ receptor

MI

Progenitor release from BM niche

plaque rupture

increased extramedullary monocytopoiesis

Summary cartoon in Fig. 5