**Supplementary Information for:**

**Microfluidic model to mimic initial event of neovascularization**

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**1. Code for Step 8.3:**

image=[pathname,filename];

a=imread(image);

sum=0;

for i=1:size(a,1)

for j=1:size(a,2)

if a(i,j)>0

sum=sum+1;

end

end

end

sum

**2. Code for Step 8.4:**

image=[pathname,filename];

im=imread(image);

imshow(im);

pause

hold on

[x1,y1] = ginput(1)

pause

[x2,y2] = ginput(1)

plot([x1,x2],[y1,y2],'y')

pause

i=0;

while i>=0

hold on

i=i+1;

[P(i,1), P(i,2), button] = ginput(1);

if button==1

plot (P(i,1), P(i,2),'+')

d(i,1)=abs((y2-y1)\* P(i,1)+(x1-x2)\* P(i,2)+x2\*y1-x1\*y2)/sqrt((y2-y1)^2+(x1-x2)^2)

pause

else

break

end

end