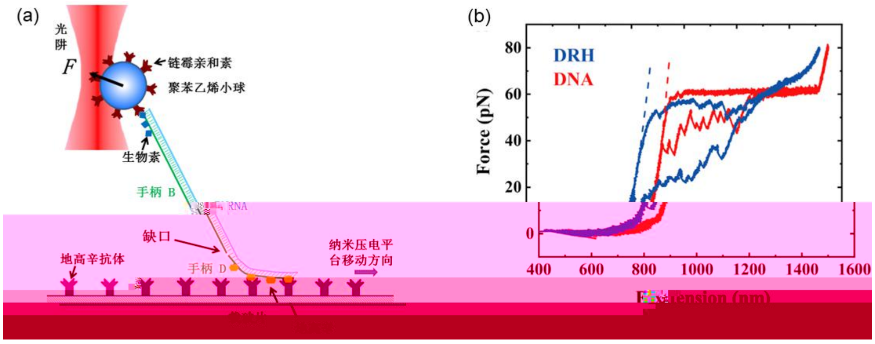
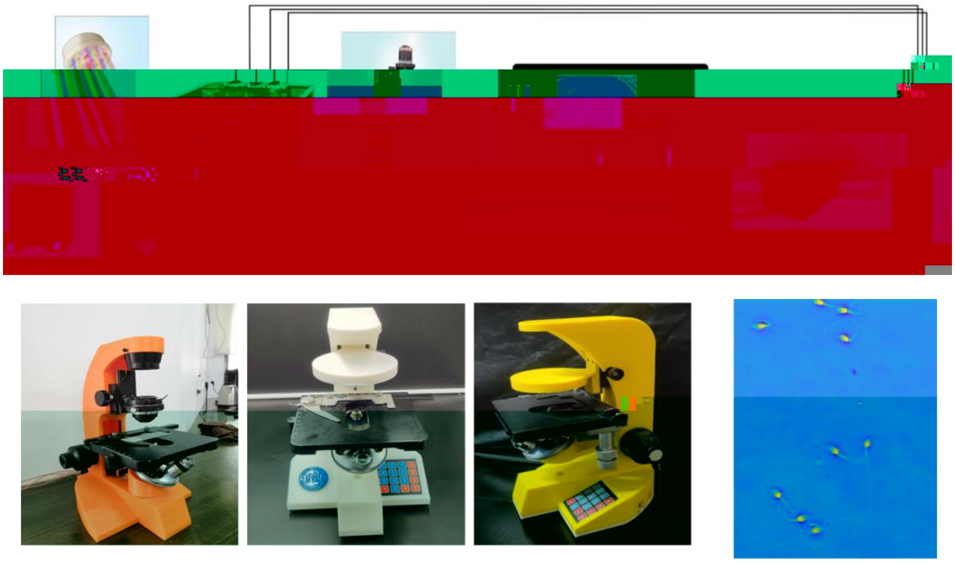
老师

1

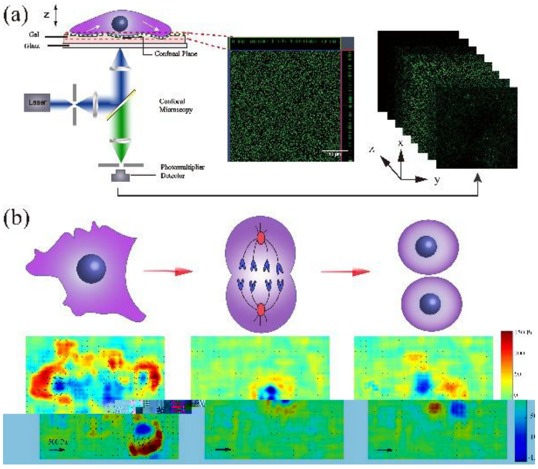
(a)
(b)

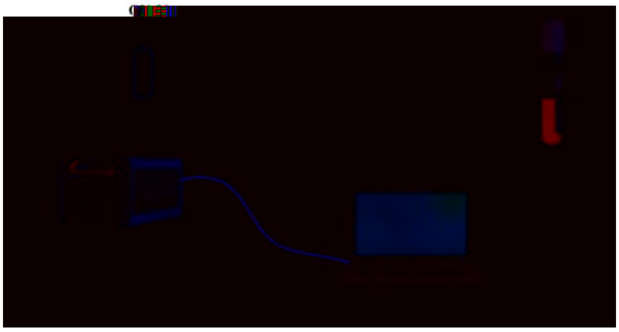

(a)
光阱
F
链霉亲和素
聚苯乙烯小球
生物素
手柄 B
RNA
缺口
手柄 D
地高辛抗体
纳米压电平台移动方向
(b)
DRH
DNA
Force (pN)
80
60
40
20
0
400
600
800
1000
1200
1400
1600
Extension (nm)

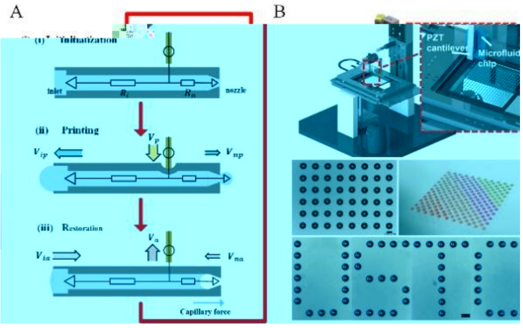
2

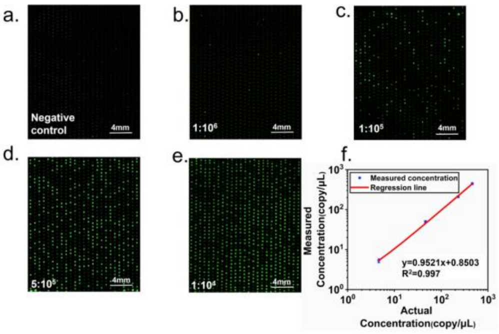


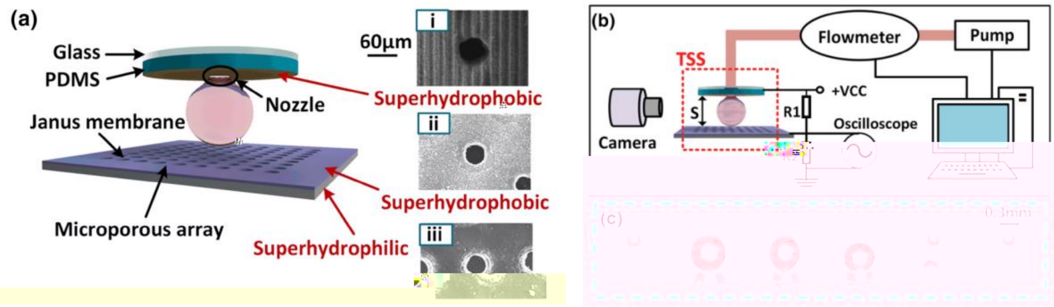
3

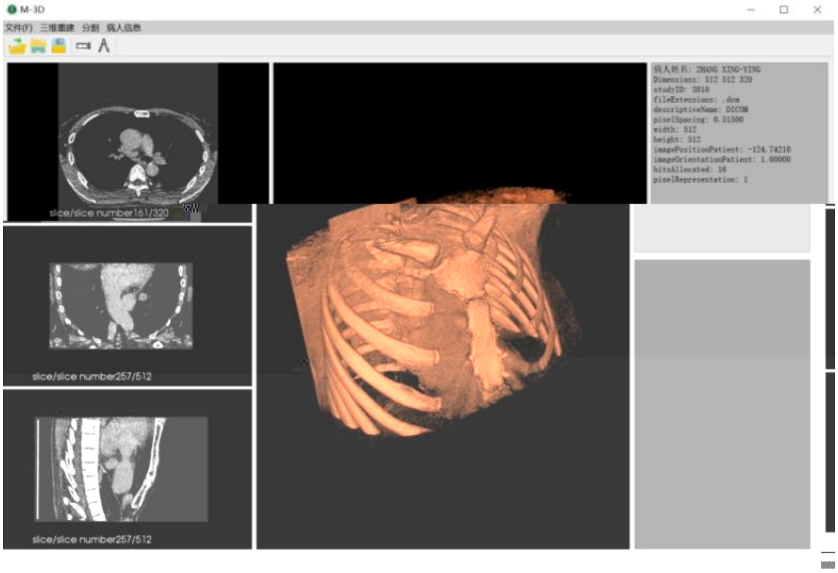

(a)
z
Gel
Glass
Confocal Plane
Laser
Confocal Microscopy
Photomultiplier Detector
z
x
y
(b)
150 Pa
100
50
0
500 Pa



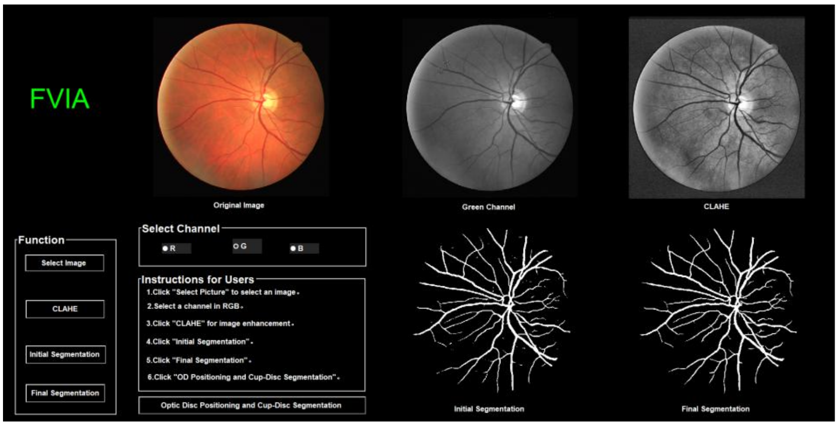

A
B
(i) Initialization
inlet
R_i
R_n
nozzle
(ii) Printing
V_p
V_{ip}
V_{np}
(iii) Restoration
V_a
V_{ia}
V_{na}
Capillary force
PZT cantilever
Microfluidic chip


a.
b.
c.
d.
e.
f.
Negative control
1:10⁶
1:10⁵
5:10⁵
1:10⁴
4mm
Measured concentration
Regression line
y=0.9521x+0.8503
R²=0.997
Measured Concentration(copy/μL)
Actual Concentration(copy/μL)
10⁰
10¹
10²
10³


(a)
Glass
PDMS
Nozzle
Janus membrane
Microporous array
Superhydrophobic
Superhydrophobic
Superhydrophilic
60μm
i
ii
iii
(b)
Flowmeter
Pump
TSS
+VCC
S
R1
Camera
Oscilloscope
(c)
0.3mm


M-3D
文件(F) 三维重建 分割 病人信息
slice/slice number161/320
slice/slice number257/512
slice/slice number257/512

病人姓名: ZHANG XING-YING
Dimensions: 512 512 320
studyID: 3810
fileExtensions: .dcm
descriptiveName: DICOM
pixelSpacing: 0.51500
width: 512
height: 512
imagePositionPatient: -124.74210
imageOrientationPatient: 1.00000
bitsAllocated: 16
pixelRepresentation: 1


FVIA
Original Image
Green Channel
CLAHE
Function
Select Image
CLAHE
Initial Segmentation
Final Segmentation
Select Channel
● R
○ G
● B
Optic Disc Positioning and Cup-Disc Segmentation
Initial Segmentation
Final Segmentation

Instructions for Users

1.Click "Select Picture" to select an image。
2.Select a channel in RGB。
3.Click "CLAHE" for image enhancement。
4.Click "Initial Segmentation"。
5.Click "Final Segmentation"。
6.Click "OD Positioning and Cup-Disc Segmentation"。

1 E ai h i h a@ah .ed .c

h ://b e.ah .ed .c /2020/0529/c6494a78406/ age.h

2