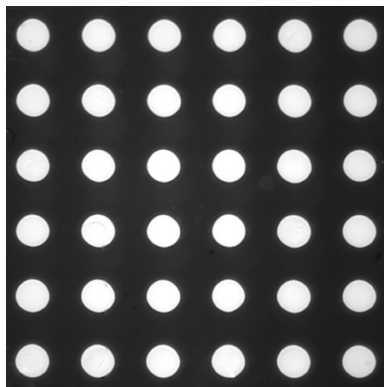
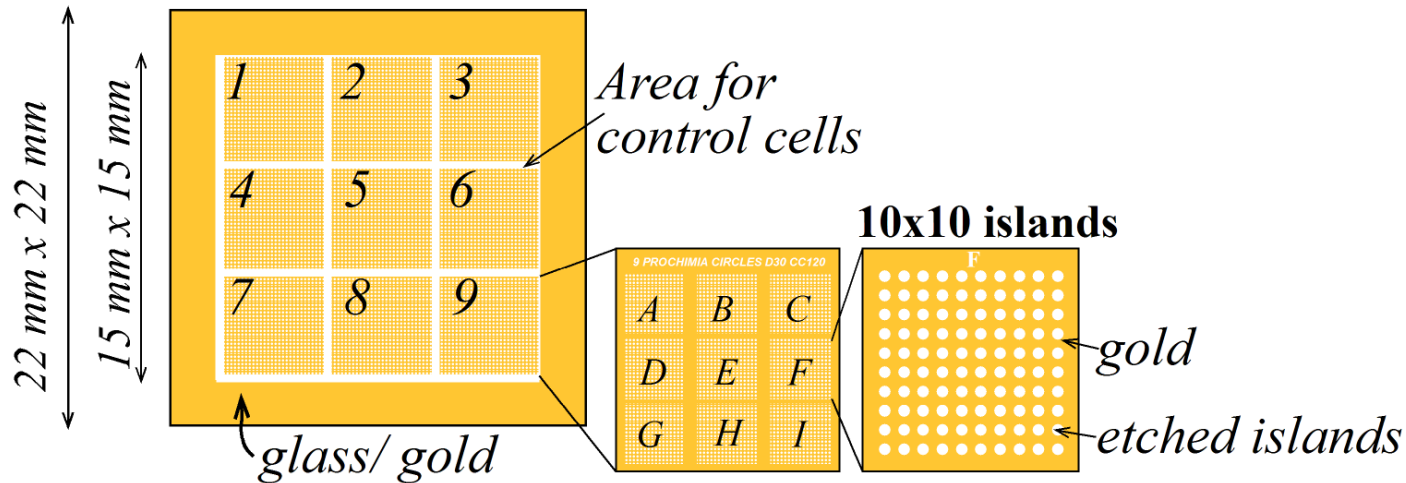


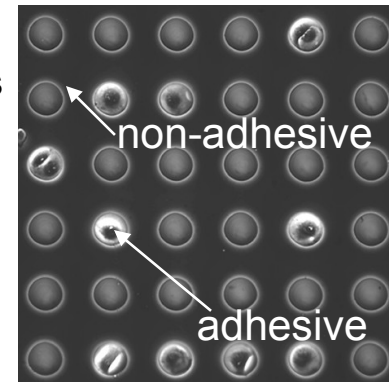
CELL ARRAYS with MICRO ETCHED SUBSTRATA

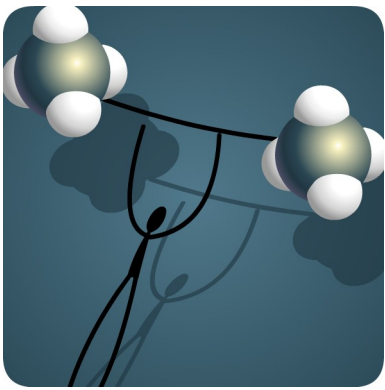
Standard glass coverslip (thickness 1.5, 22mm x 22 mm); Ti 5nm, Au 50 nm
Transparent islands by Wet stamping gold etchant with agarose stamps



CIRCLES D 40 μ m

1. incubate with EG3 alkyl thiols
2. coat with fibronectin
3. plate B16F1 cells





MASKS:

1. PROCHIMIA CIRCLES

circles with diameter 30, 35, 40 or 45 μm

center-to-center spacing 120 μm

each size on different stamp

8100 etched circles/ 1.2 cm x 1.3 cm stamp

etched areas for control cells (no pattern)

2. PROCHIMIA TRIANGLES

triangles of equivalent areas to circles

(707 for D30, 962 for D35, 1256 for D40, 1590 μm^2 for D45)

labeled by diameter of corresponding circle

each size on different stamp

8100 etched islands (triangles+circles)/ 1.2 cm x 1.3 cm stamp

includes control islands—circles of equivalent area

etched areas for control cells (no pattern)

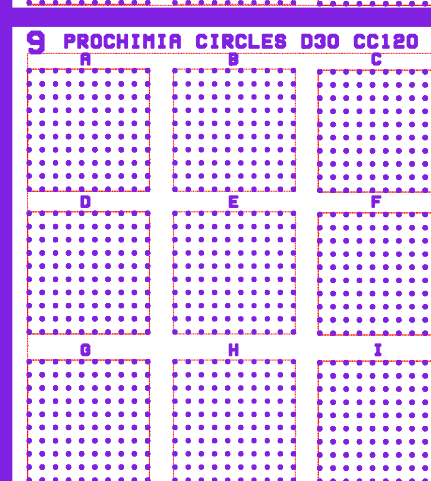
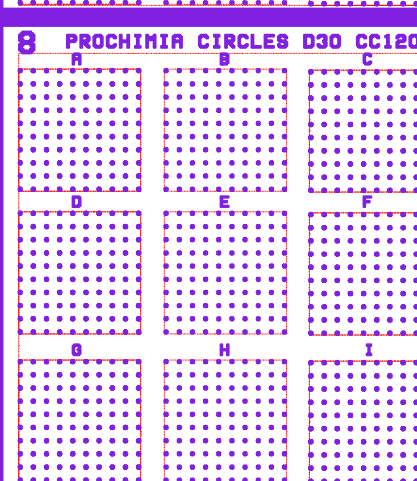
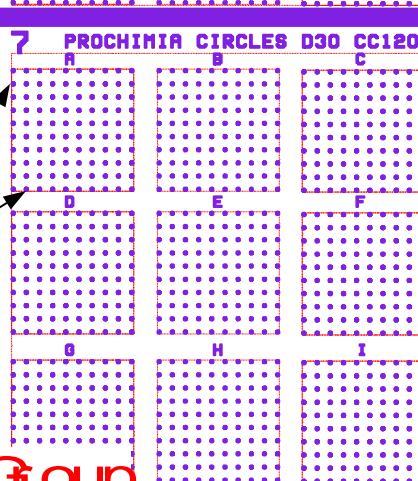
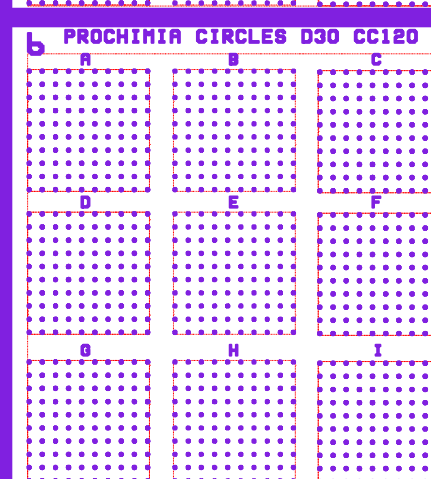
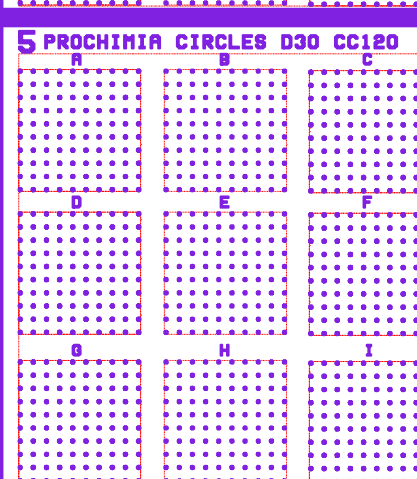
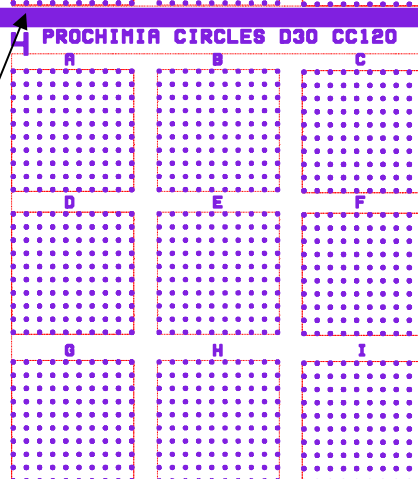
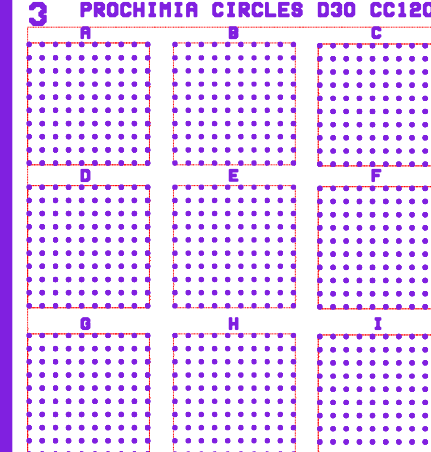
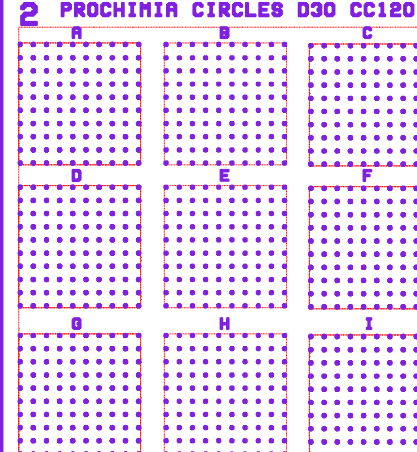
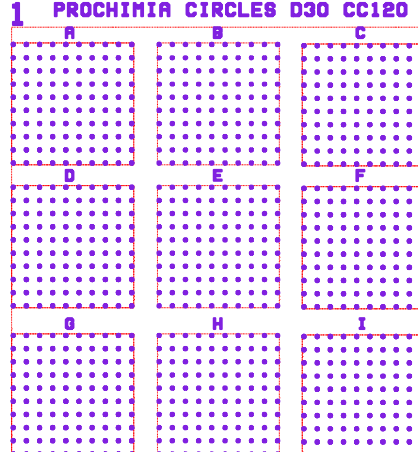
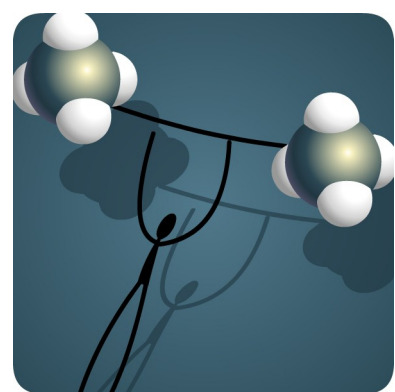
3. PROCHIMIA LINES

lines with width 20, 30, 40 or 50 μm ; length ~ 3760 μm

edge-to-edge distance 120 μm

includes areas for control cells (no pattern)

Abbreviations: D, diameter; CC, center-to center distance; EE, edge-to-edge distance.

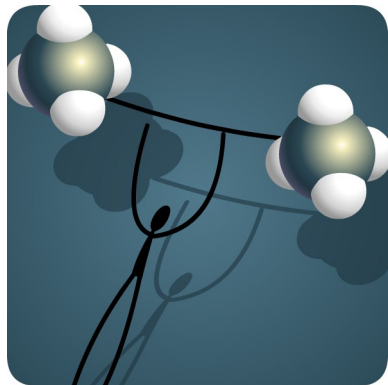


Group

Prochimia circles:
Example of
one stamp—
15 mm x 15 mm
CIRCLES
D30 CC120

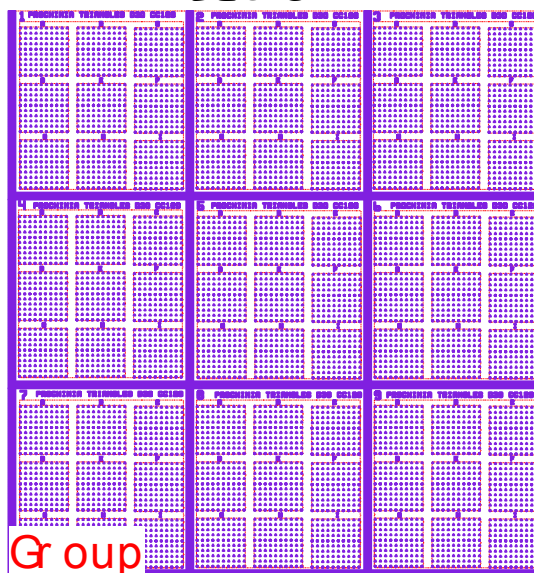
Etched/
adhesive areas
for control cells
(no pattern)

10x10 etched islands

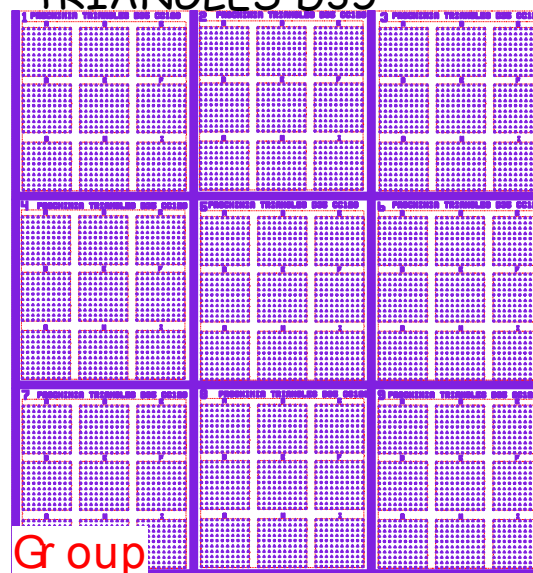


Mask: Prochimia Triangles

TRIANGLES D30

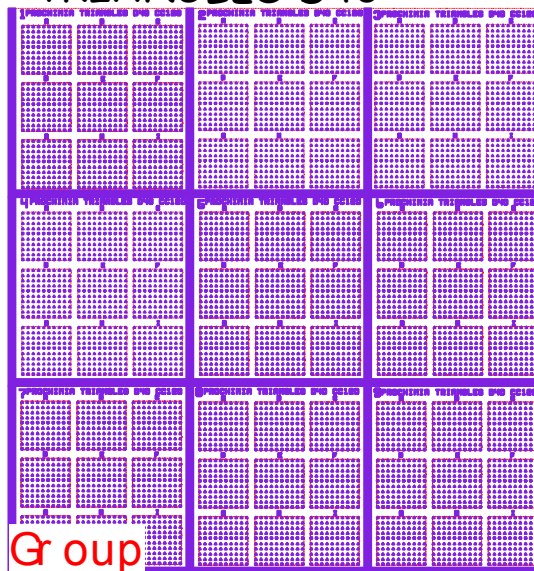


TRIANGLES D35

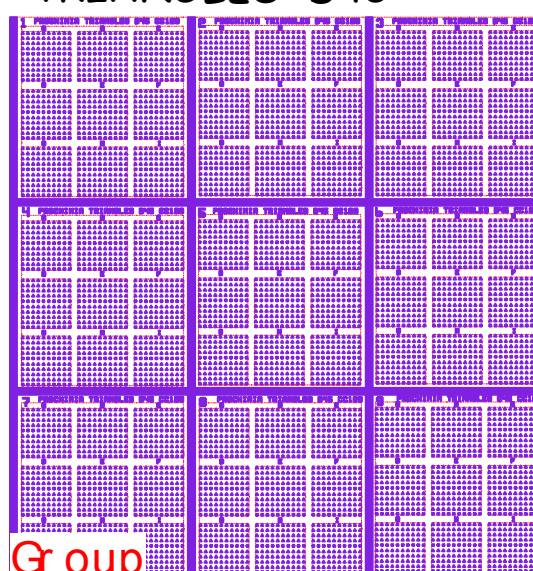


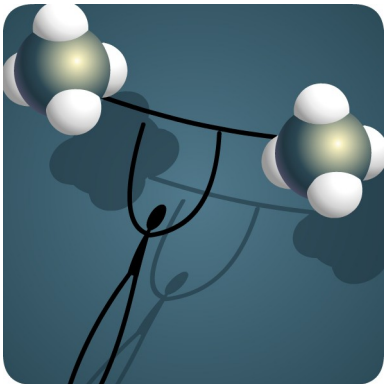
D, diameter; CC
center-to-center
distance (μm)

TRIANGLES D40



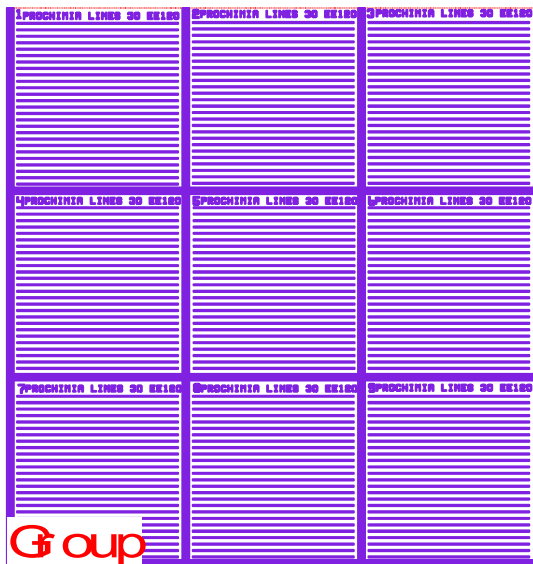
TRIANGLES D45



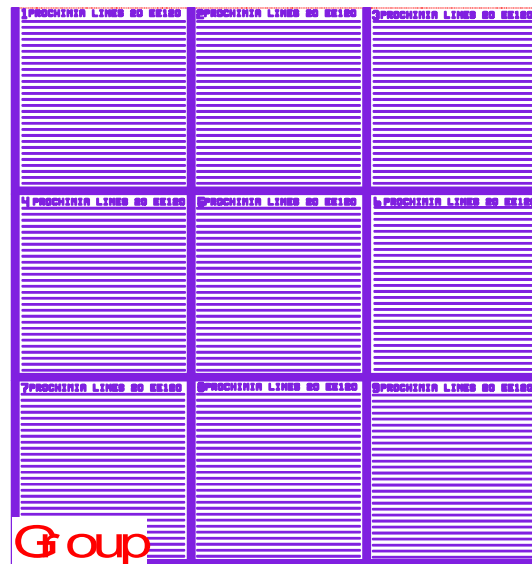


Mask: Prochimia Lines

LINES 30 EE120

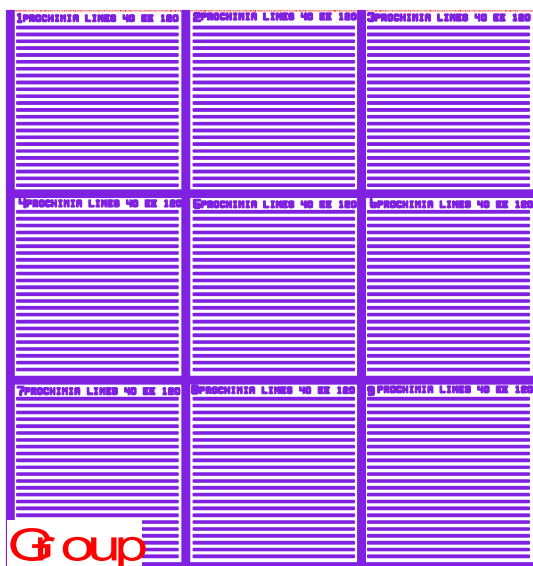


LINES 20 EE120



D, diameter;
EE
edge-to-edge
distance (μm)

LINES 40 EE120



LINES 50 EE120

