

MICRO AND NANO CUSTOM MANUFACTURING

for research and industrial prototyping

Scriba Nanotecnologie is a spin-off company of the National Council of Research of Italy (CNR) manufacturing custom products for micro- and nanotechnology:

microfluidics devices¹

masters for replica molding

flexible and rigid molds² for soft lithography³ and imprinting

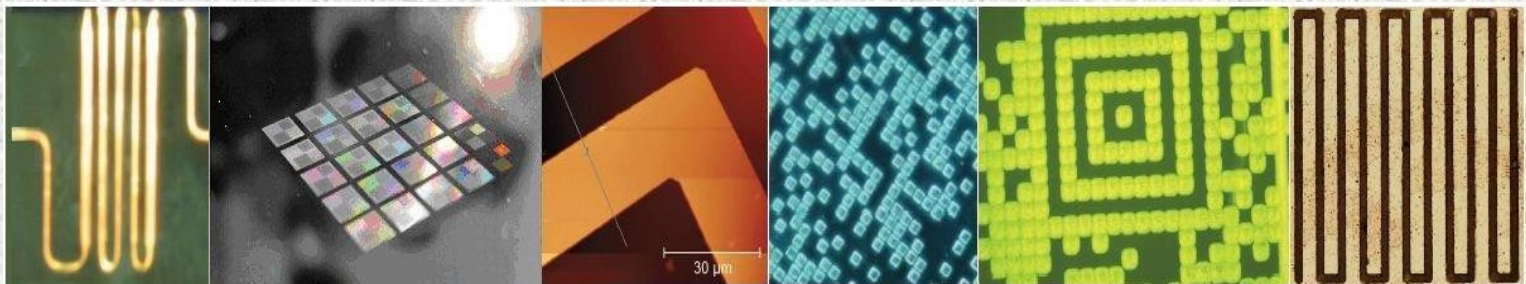
patterned polymer films on large scale and number

materials patterns⁴

shadow and contact masks

Our customers include research centers, universities, companies.

Products on-demand, flexibility, fast response are our strength factors.



Scriba Nanotecnologie S.r.l. Via P. Gobetti 52/3, 40129 Bologna (Italy)

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Products

Microfluidics

Applications include:

- interfacing fluids to optical and electronic sensors
- in-situ-real time XRD, GIXD, SAXS on solutions at synchrotron beamlines
- optical and scanning probe microscopes
- chemical reactions in confined environment
- (bio)analytical assays
- crystallization
- (nano)toxicology

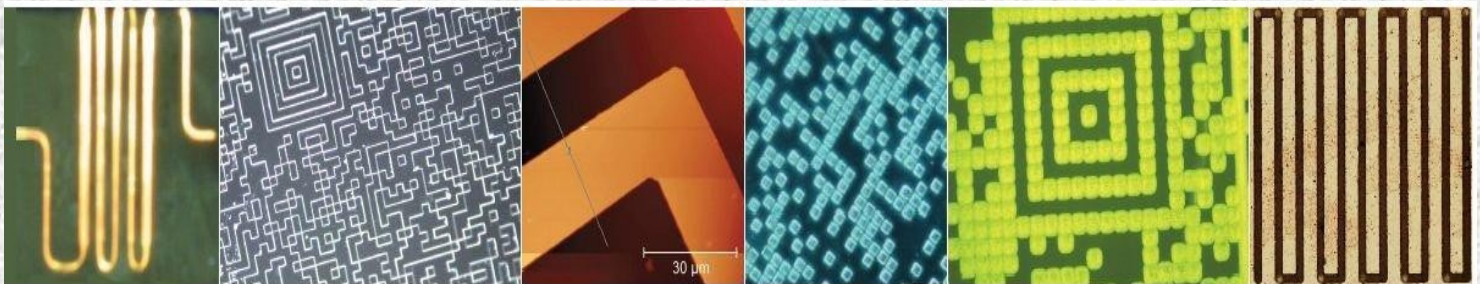
We perform virtual prototyping of your microfluidics design.

We can integrate the microfluidics onto your substrate and test it.

Masters and Molds

Flexible or rigid molds are manufactured with custom motives for:

- printing inks, soluble materials and formulations, proteins
- stamp manufacturing
- replica molding
- imprinting



Molds can be manufactured on metal slabs; glass slides and coverslips; silicon wafers; polymer slabs, thin films and multilayers; articles of arbitrary shape.

We can provide optical, SEM, AFM characterization for each master and mold.

Patterns on Demand

We pattern the material of your interest at micro- and nanometer scales: metal precursors, clusters, nanoparticles, polymers, organic materials, soft matter.

Specifications and optical, SEM, AFM characterization are provided.

For further information, or to request for a quote, please contact:

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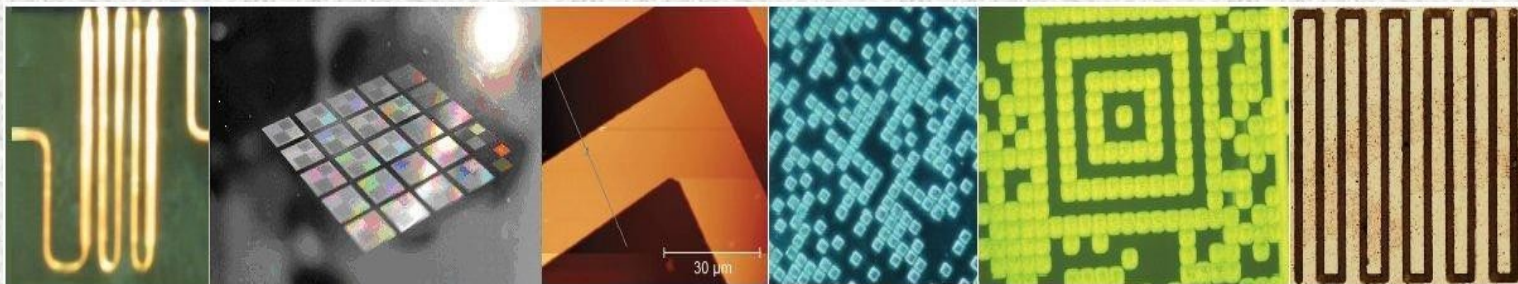
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References

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2. “Lithographic Alignment of Discotic Liquid Crystals: A New Time–Temperature Integrating Framework”, *Advanced Materials*, 2009; 21, 4688-4692
3. “Towards all-organic field effect transistors by additive soft-lithography”, *Small*, 2009; 5, 1117-1122.
4. “Fluidic Deposition of Aligned Carbon Nanotubes Conductive Lines” *Phys. Status Solidi B*, 2010, 247, 877–883.



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