

LABORATORY OF SENSORS AND NANOTECHNOLOGY

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Laboratory LabSensNano is specialized in fabrication of electrochemical and chemical microsensors, nanosensors and biosensors and their application in the field of chemistry, biochemistry, medicine and environment since 2004.





instrument for nanostructures deposition

Aims of LabSensNano:

- know-how progress in the field of micro and nanotechnology for sensing systems
- to be among the top European research laboratories
- to train experienced researchers in the area of special electronic devices, sensing systems and advanced construction technologies

quantum dots in solution under UV radiation



conductivity sensor



sensor with carbon nanotubes modified working electrode

scanning electron microscope TESCAN Mira II





thick-film gas sensor

micro-hotplate gas sensor



gas sensors testing station







LabSensNano is specialized in:

- fabrication of nanostructured surfaces (nanowires, nanopillars, nanotubes, nanodots)
- chemical micro/nano-sensors for environment quality monitoring (toxic pollutants and gas detection)
- biosensors for virus, DNA and cancer cell detection
- fluorescence optical chemosensors and biosensors
- instrument and microsystem construction for detection
- Lab-on-a-chip fabrication





Electronics

voltammetric sensor

with integrated

potentiostat

Sensors



bord

switch bord for multichannel measurment



environment quality monitor

> multichannel potentiostat

NANOSEMED

testing bord of integrated potentiostat chip



bord for environment monitoring

Systems



conductometer

