

Our skills

Biocompatible surface elaboration Respiratory and immune toxicity evaluation

YOUR NEEDS

- Confer novel functionalities on a surface
- Change the surface energy
- Increase the sensitivity of a biosensor
- Measure the effects of your substances in a liquid or solid phase on the xenobiotic metabolism of living organisms
- Study the early toxicological effects in vitro
- Assess a toxicological file
- Validate the effects of synthetic or natural molecules on a biological target
- Develop a physical sensor that responds to a biological stimulus

OUR SOLUTIONS

- Modify the surface according to the desired property
- Graft molecules or biomolecules to increase the sensitivity of a sensor
- Increase the non-stick properties of surfaces
- Set-up a study protocol on an appropriate cell-line
- Identify the best strategy to evaluate a biological or toxicity effect through the selection of key endpoints
- Choose the best physical, physicochemical and biological strategies to design a prototype sensor (transversal skills)

KEYWORDS

Functional surface, surface property, nanoparticles, artificial fibre, polymer, intelligent material, biomaterial, toxicology in vitro, cell biology, marker of biological effects, toxicological expertise, molecular biology

RELATED SKILLS


- Surface characterization
- Polymers modification
- Polymers characterization
- Design of microfluidic systems
- Structural and microstructural characterizations

OUR REFERENCES

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