SUCCESS STORIES

EXAMPLES OF TECHNOLOGICAL APPLICATIONS

- Design and improvement of detergent formulations
- Design of new cosmetic formulations based on nano-emulsions prepared using low-energy methods
- Preparation of lattices with high solid content and stable against electrolytes
- Preparation of porous gelatin foams for applications in surgery
- Preparation of nanoparticles for encapsulation and delivery of active substances

PATENTS

- Procedure for the preparation of nanoparticles by reaction in oil-in-water (O/W) microemulsions
- Meso/macroporous polymers obtained from concentrated emulsions
- Textiles from chitosan hydrogels

CONTACT WITH US

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Our mission is the development of new technological applications from surfactant colloids.

Highly qualified personnel for R&D and service support.

More than 100 research projects and services for leading companies.

We develop R&D projects and provide services to companies, improving competitiveness and added value.

The Centre QCI integrates three groups, two of them from the Institute for Advanced Chemistry of Catalonia (IQAC), belonging to the Spanish National Research Council (CSIC), and the other one from the Faculty of Pharmacy and Food Science of the University of Barcelona (UB). The QCI Centre focus on the development of R&D projects and services in the field of colloid chemistry and advanced materials.

The Centre QCI has a TECNIO certification, an ACCIÓ (Generalitat de Catalunya) label to recognize experts in applied research and technology transfer with the aim of giving companies access to R&D facilities and in this way favor competitiveness and internationalization.

TARGETED INDUSTRIES
- Chemical
- Pharmaceutical
- Cosmetic
- Detergency
- Textile and polymers
- Biotechnology and nanomedicine
- Agro-food
- Energy and environment

RESEARCH LINES
- Fabrication of advanced materials from surfactant and colloids: nanoparticles, meso- and macroporous materials, hydrogels, etc.
- Surface modification (textiles, polymers, etc.) using chemical treatments and nanostructured materials.

EQUIPMENT AND FACILITIES
- Dynamic Light Scattering, Laser light diffraction, Small and Wide Angle X-ray Scattering (SAXS/WAXS), rheometer, viscometer, force tensiometers, high resolution optical microscope, scanning electron microscope, electrophoretic (light scattering for zeta potential measurements), densimeter, pycnometer, etc.