CQB is located at the Department of Chemistry and Biochemistry (FCUL) and was founded in 2001 aiming at developing internationally competitive science, particularly at the frontier of chemistry and biochemistry. This involvement of the two areas in the same unit is almost unique at a national level. CQB currently consists of twelve groups with complementary scientific interests, in a structure that promotes sharing of resources and collaborative work.

The mission of CQB is grounded on three pillars:
- to investigate challenging problems in chemistry and biochemistry
- to conduct advanced training
- to create social, economic and cultural value from scientific knowledge

Research interests:
- Synthesis, characterization, reactivity and bioactivity of new molecules and materials
- Supramolecular science
- Structure-activity/reactivity and function relationships
- Computational (bio)chemistry and molecular and systems modeling
- Biochemistry and biomedicine
- Analytical science

Services
- Analytical Service
- Technical Expertise Consulting
- Analytical Methods Development
- Molecular Modelation

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Contacts
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Participation in 15 COST actions

**CQB in numbers***
- 63 Integrated Members
- 125 Collaborators
- 35 / year Publications in peer-review International Journals
- 4 / year Patents
- * from 2011-15

### European Projects, Commitments and QREN
- LIFE-Impetus: Improving current barriers for controlling pharmaceutical compounds in urban wastewater treatment plants
- Personalised ICT Supported Service for Independent Living and Active Ageing
- Diagnostic and Drug Discovery Initiative for Alzheimer’s Disease
- Healthy ageing with innovative functional foods/leads for degenerative and metabolic diseases (INOVAFUNAGEING)

### FCT newly funded projects
- Multifunctional Luminescent Spin Labile Hybrid Materials
- Overcoming environmental problems associated with antifouling agents: synthesis of Nature inspired nontoxic biocides and immobilization in polymeric coatings
- Sphingolipid organization in the plasma membrane of Saccharomyces cerevisiae. Implication in antifungal mode of action and fungal resistance
- Biomimetic/nanobioconjugates flexible platforms for sensitive immunosensing
- CPKMD-L simulations of pHLIP peptides: design of new tumor-targeted drug delivery systems
- Anion transmembrane transport promoted by drug-like molecules: building a library of anion carriers inspired in Ataluren
- + 6 ongoing FCT funded projects

**CQB networking**
The European Innovation Partnership on Active and Healthy Ageing (EIP AHA), Action Group A3
- Prevention of functional decline and frailty
- More than 70 consortia and institutions
- CQB belongs to the FCUL consortium

The European Institute of Innovation and Technology (EIT) has launched an application to a Knowledge and Innovation Community (KIC) on Healthy Life and Active Ageing
- FCT approved the project EIT-KIC/IVE/0051/2013 to prepare the application
- CQB is one of the founders of the consortium LisbonLiving+ built within this project. This consortium involves Industry, Governmental bodies and Academia

### Smart Specialization
Contracts and research projects with national & international Industries, collaboration with high-tech SMEs & governmental bodies

### Publications in peer-review International Journals in 2014-2015
- 117: 4.58 publications/year
- 35: 1.92 publications/year

### Patents in 2014-2015
- 4: 0.25 patents/year

### Ph.D. & Master Theses in 2014-2015
- 35: 2.13 theses/year

### Contracts and research projects with national & international Industries, collaboration with high-tech SMEs & governmental bodies

### Thematic Lines
- Chemistry and Biochemistry for a Clean Environment
- Healthy Life: Molecular Interventions & Regulation Mechanisms

### Aligned with Lisbon area regional priorities
- Associated with H2020 Societal Challenges
- Associated with Lisbon area regional priorities

### Publications in peer-review International Journals
- 117 / year
- 4 / year

### Patents
- 35 / year
- 4 / year

### Ph.D. & Master Theses
- 35 / year
- 4 / year

### Contracts and research projects with national & international Industries, collaboration with high-tech SMEs & governmental bodies
- 63 Integrated Members
- 125 Collaborators