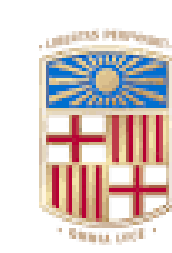


Who is EDDU?

A multidisciplinary team at the Faculty of Pharmacy and Food Sciences at the University of Barcelona specialized in the **early stages of drug discovery**, combining academic research with technology transfer to the pharmaceutical and biotechnology industries.

In 2025, EDDU was awarded the prestigious **TECNIO** seal by the **Government of Catalonia**.

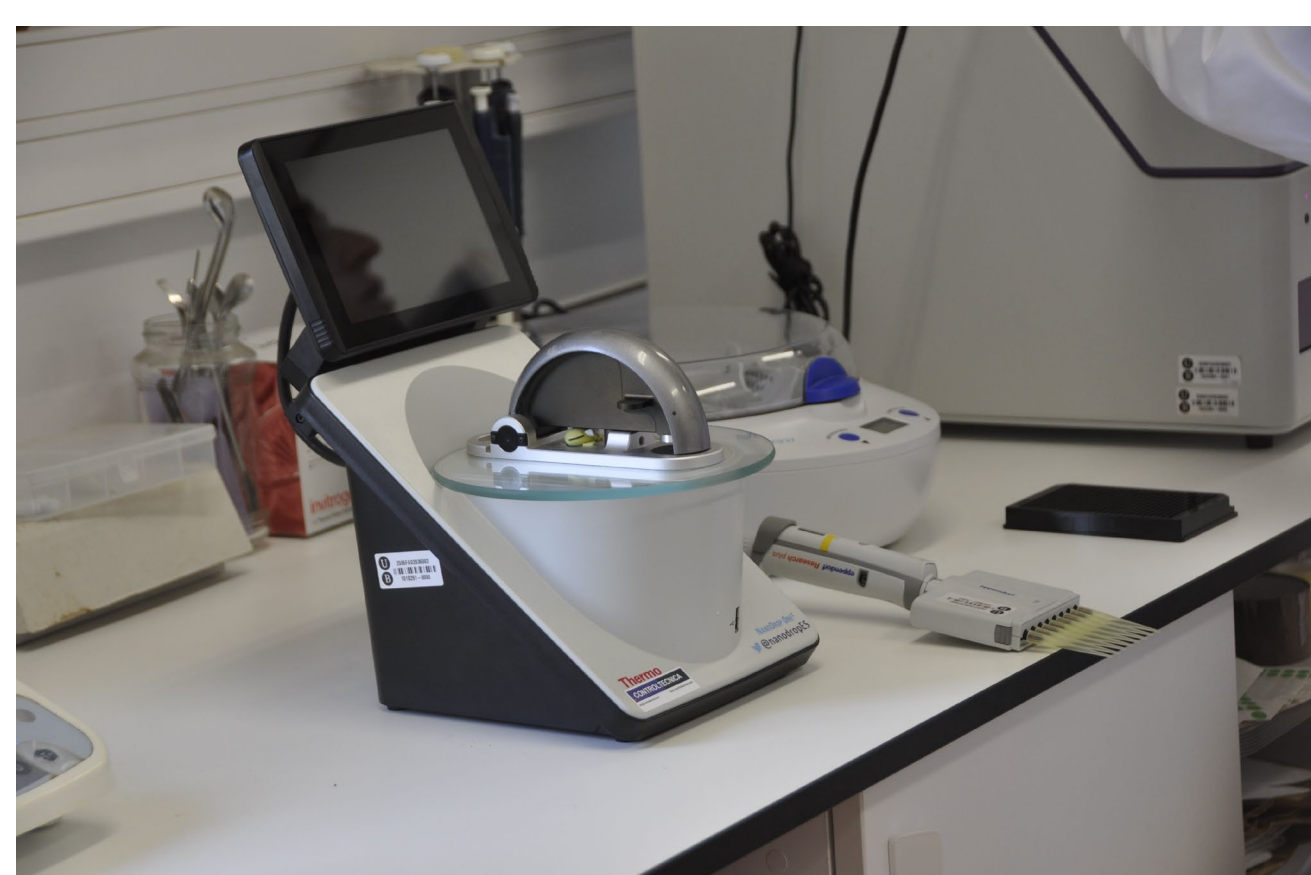


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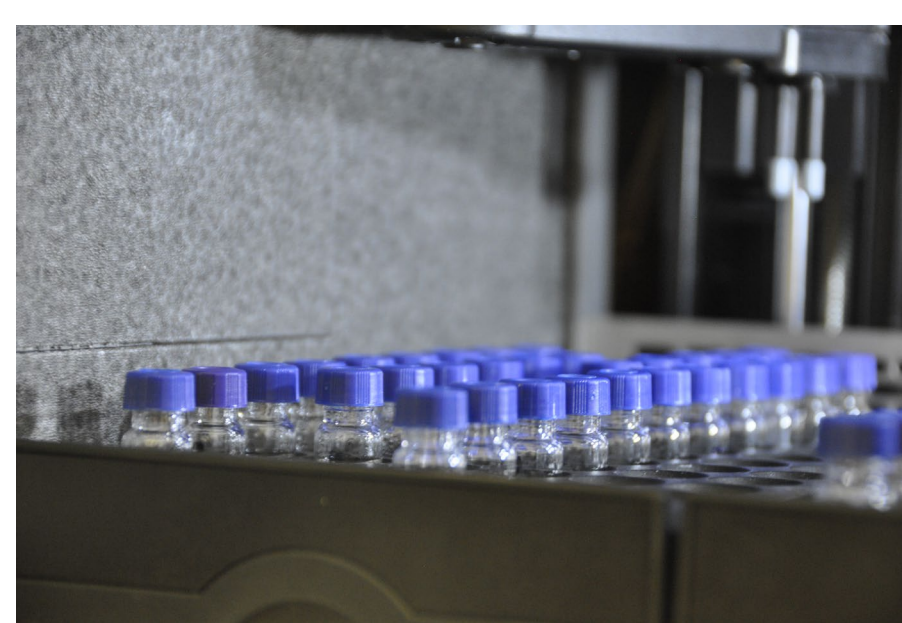


Services and know-how



Hit identification

- **Rationale design** of small molecules.
- **Synthesis** of bioactive compounds.
- **Structural characterization** of bioactive compounds.
- **Virtual screening** of chemical libraries.
- **Binding mode** validation via MD simulations.
- **Biophysical techniques** for hit validation (SPR, ITC, fluorescent techniques).



Lead optimisation

- **Optimization and scale-up** of routes of synthesis for APIs.
- Guidance on **Intellectual Property**.
- Guidance on the design and application of **screening cascades** for candidate identification.

Target validation

- **In silico** **ligandability** and **drugability** assessment of protein targets.
- **Binding site identification** of protein targets.
- Development of **biochemical** and **biophysical** assays.
- **Protein expression** and **purification**.



Hit to lead

- Development of **new synthetic routes**.
- **Design and synthesis** of chemical libraries and scaffolds.
- **Exploration** of ultra large virtual libraries (e.g., Enamine real).
- **In silico** **Free Energy Perturbation** calculations of series of compounds.
- **Biophysical screening** of compound libraries (SPR, FRET, FP...).
- **Cell biology** screenings (WB, Elisa,...).

Specic focus: Targeted Protein Degradation

- Design, synthesis and elucidation of the mechanism of action of **PROTAC molecules** (degradation, ternary complex formation,...).
- **E3 ligases**: expert knowledge and small molecules identification.
- Identification of **selective molecular glues** degraders computationally.

Specic focus: APIs impurities

- **Structural elucidation** (NMR, HPLC/MS), **isolation** and **synthesis** of:
 - impurities from APIs,
 - degradation products from finished pharmaceutical products,
 - metabolites.

Clients and Collaborations



Contact us

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