

Project idea/ Field of expertise:

European Platform for flow-chemistry testing of new drugs and production of nano-pharmaceuticals under GMP conditions

Organisation Name:

**Institut Quimic de Sarrià, Barcelona
(University Ramon Llull, Spain)**

Adressed challenge(s)/ PPP(s):

Digitising and Transforming European Industry and Services (DT)

Adressed topic(s) in Work Programme:

DT-NMBP-06-2020: Open Innovation Test Beds for nano-pharmaceuticals production (IA)

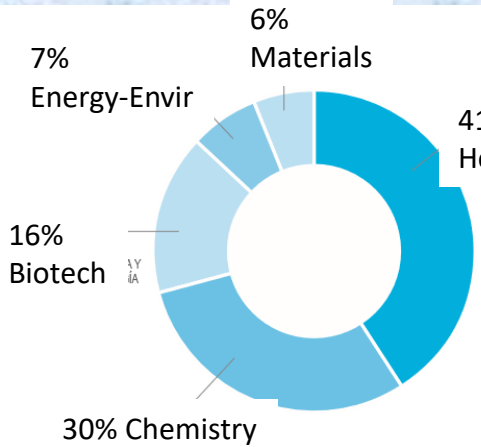
Institut Químic de Sarrià

Universitat Ramon Llull (Barcelona, Spain)

Pilot Plant: Open Test Bed (2016-2018) 1150 m². 2,7 M€ investment to TRL 7 facilities dedicated to:

- 1) Bioprocesses;**
- 2) Flow Chemistry,**
- 3) Advanced Materials,**
- 4) Nanotechnology**

Annual turnover 2018: **1,6M€ Company Contracts + Services** for 200 clients. **Accredited Tecnio Center Catalonia & GMP accredited (AEMPS) EMA in Spain. FDA . ENAC**



Currently 44 Competitive Research Projects : H2020, Structural Funds, Interreg, (coordination)

Open Innovation Test Beds for nano-pharmaceuticals production (IA) from TRL 4 to TRL 8 under GMP

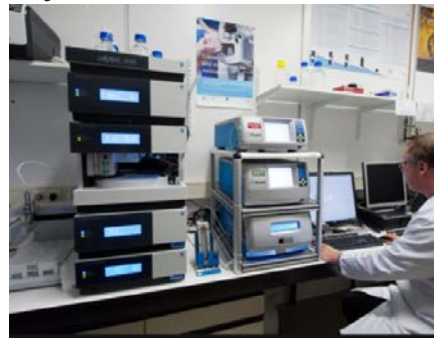
- Nanomedicine & drug delivery
- Accredited GMP
- **1) TRL 8: system completed and qualified under GMP conditions.** Spectrometry and Chromatography analysis: NMR, MS-MS, ionic chromatography, fluorescence & photochemistry.
- **2) TRL4-TRL7:** 100L bioreactor, downstream equipment, spectrophotometry (Raman, IR), DSC, x-ray diffraction, Raman-IR microscopy, Confocal fluorescence microscopy, flow-cytometry, flow-chemistry.



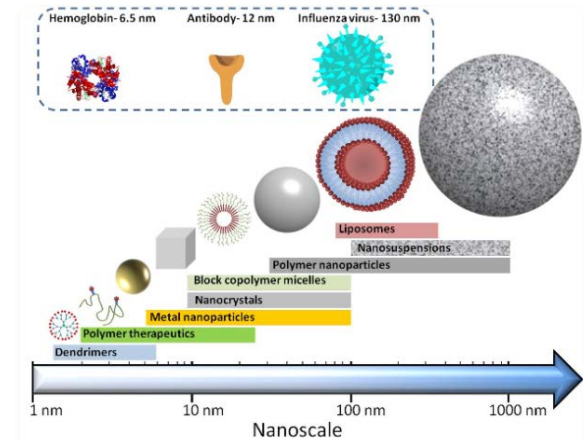
Titan flow reactor



Zetasizer



Asymmetric Flow Field Fract



Consortium (if any)

Known partners / Competence offer

Name	Type	Country	Role in the project
QUB	Univ	UK	Pharma-Drugs Develop
Sagetis	SME	SP	Upscale Nano-Delivery Systems
Aortyx, Tractivus	SME	SP	Prototype development

Partner search

Profile	Type	Country	Role in the project
Technological Centre	Dev	EU	Upscale Nano-Delivery Systems and Flow Chemistry for Drug Production
Medium and Large Industry	Prot	EU	Implementation industrial environment

Contact details

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