

# SONIA GARCÍA JIMENO

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Nationality: Spanish      Birthday: 25/07/1979

Languages: Spanish, Euskera, English



## ACADEMIC BACKGROUND

- 2008-2013      **PhD in Chemistry.** “Universidad de Barcelona (UB)” under the supervision of Prof. Joan Estelrich Latras.
- 2008-2010      **M. Sc in Chemistry.** “Master oficial en Biotecnología Molecular. Universidad de Barcelona (UB)”.
- 1998-2004      **B. Sc in Chemistry: Polymers and Macromolecules.** “Facultad de Químicas, Universidad del País Vasco (UPV/EHU)”.

## PROFESSIONAL EXPERIENCE

- 2012-to date.      **Institut Català de Nanociència i Nanotecnologia (ICN2).** Postdoctoral Researcher.
- Main Research Topics: Micro- and nano/micro-encapsulation technologies: liposomes, polymerizations, coacervations, etc. Main target: to advise private companies and other research institutions in developing novel encapsulation products, e.g., fragrances for laundry and home care products, biocides, surfactants, peptides, compounds for alimentary industry, polymers as a self-healing agents, liquid crystals, etc
  - Extensive experience in developing novel technologies for the industrial sector. Collaboration with up to 10 different national and international companies. Product oriented support in state of the art technologies.
- 2008-2012      **Universidad de Barcelona (UB).** Predoctoral Researcher in Physical-Chemistry Department in Pharmacy faculty.
- Research Topics: Synthesis and characterization of magnetic nanoparticles (liposomes and ferrofluids) for biomedical applications (drug delivery systems, hyperthermia).
- Sep.-Dec. 2010      **CINVESTAV-IPN.** Internship in *Electronic engineering department*.
- Research Topics: Study of hyperthermia for biomedical applications.
- Sep.-Dec. 2009      **University of Granada.** Internship in within the Applied Physics department.
- Research Topics: Physico-chemical characterization of magnetic nanoparticles.
- Feb.-Dec. 2007      **Investigación y control de calidad, S.A. (INCOSA)**
- Research Topics: Quality technician of building materials.
- Jul.-Oct. 2005      **Plásticos Inbasa S.A.** Internship in quality control.

## COURSES

- 2009      **Training course for the use of animals in research.** Dirección General del Medio Ambiente. Gobierno de España.

2008	<b>Superior technician in occupational risk prevention. Specialization in Safety at Work.</b> ASIGMAG, consultora de formación.
2007	<b>Technical Food manipulator for the food industry.</b> FOREM (León).
2006	<b>Surface and structural modification of polymeric materials. Industrial Applications.</b> Universidad del País Vasco (UPV/EHU).
2006	<b>Polymeric gels: Structures, properties and applications.</b> Universidad del País Vasco (UPV/EHU).

## RELEVANT SCIENTIFIC PUBLICATIONS

- Silvia Rodríguez-Fernandez, Irma Pujol-Autonell, Ferran Brianso, David Perna-Barrull, Mary Cano-Sarabia, Sonia García-Jimeno, Adrian Villalba, Alex Sanchez, Eva Aguilera, Federico Vazquez, Joan Verdaguer, Daniel Maspoch, Marta Vives-Pi. *Frontiers in Immunology*, **2018**, 9, 253.
- Pujol-Autonell, Maria-Jose Mansilla, Silvia Rodríguez-Fernandez, Mary Cano-Sarabia, Juan Navarro-Barriuso, Rosa-Maria Ampudia, Aleix Rius, Sonia García-Jimeno, David Perna-Barrull, Eva Martínez-Caceres, Daniel Maspoch, Marta Vives-Pi. *Nanomedicine*, **2017**, 12 (11), 1231-1242
- S. García-Jimeno, J. Estelrich, J. Callejas-Fernández and S. Roldán-Vargas. *Nanoscale*. **2017**, 9, 15131-15143.
- García-Jimeno, S.; Cano-Sarabia, M.; Mejias, N.; Navarro, A.; Frances, B.; Maspoch, D. *J Mat. Chem A*. **2015**, 3 (35), 17966-17970.
- L. Barbosa-Barros, S. García-Jimeno and J. Estelrich. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. **2014**, 450, 121–129.
- Sonia García-Jimeno and Joan Estelrich. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. **2013**, 420, 74– 81.
- Sonia García-Jimeno, Elvira Escribano, Josep Queralt and Joan Estelrich. *Nanoscale Research Letters*. **2012**, 7 (1), 1-7.
- S. García-Jimeno, R Ortega-Palacios, M F J Cepeda-Rubio, A Vera, L Leija and J Estelrich. *Progress In Electromagnetics Research*. **2012**, 128, 229-248.
- M. Peláez-Fernández, A. Moncho-Jordá, S. García-Jimeno, J. Estelrich, and J. Callejas-Fernández. *Physical Review E*. **2012**, 85 (5), 051405.
- María José Tapia, María Monteserín, Hugh D. Burrows, J. Sérgio Seixas de Melo, João Pina, Ricardo A. E. Castro, Sonia García-Jimeno and Joan Estelrich. *J. Phys. Chem. B*. **2011**, 89 (6), 1471-1478.
- C. J. Trujillo-Romero, S. García-Jimeno, A. Vera, L. Leija, and J. Estelrich. *Progress In Electromagnetics Research*. **2011**, 121, 343–363.
- García-Jimeno, S., Escribano, E., Queralt, J. and Estelrich, *J. International Journal of Pharmaceutics*. **2011**, 405 (1), 181-187.

## RESEARCH GRANTS

- Beca del Ministerio de España (FPI). Predoctoral fellowship: 01/12/08-01/12/012

## SKILLS

Good skills in the different techniques used in laboratory. Experienced in synthesis, nanoparticles preparation and encapsulation using different methodologies. Knowledge of techniques such as  $^1\text{H}$ ,  $^{13}\text{C}$  and multinuclear **NMR** in liquid, **GC, HPLC, ICP-MS, IR, EA, ESI-MS, MALDI-TOF, UV, IR, TGA, DSC, Dialysis, TEM, SEM, Spray drying, etc.** Experienced in **surfactants and polymers**. Good skills in preparing presentations and communicating results, writing scientific reports and applied research proposals in Catalan, Spanish and English. Capable of working individually or in a team environment.