



Antonia María Cano Sarabia

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Dr. Antonia María Cano Sarabia received her B.Sc. in Chemical Engineering from the University of Murcia in 2002. From 2002 to 2003, she was a fellow in the research group of Industrial Hygiene and Safety led by Prof. Agustín Miñana/Dr. José Ruiz Gimeno at the University of Murcia. She worked on the development of emergency plans in industrial plants. Awarded with a 4-year FPU fellowship in 2004, she began her doctoral studies at the Materials Science Institute of Barcelona (ICMAB), under the guidance of Dr. Nora Ventosa/Prof. Jaume Veciana. Her PhD thesis was focused on developing novel supercritical fluid technologies for preparing functional organic nanomaterials for biomedical applications. In 2008 she was a visiting researcher at the Institute Galien Paris-Sud, in the group led by Prof. Patrick Couvreur (UMR CNRS 8612). Dr. Cano received her PhD (Cum Laude) in Material Sciences from the Universitat Autònoma de Barcelona in 2009. That same year, she was awarded a Marie-Curie Postdoctoral Fellowship. As a postdoctoral researcher, she worked on developing plastic nanochromic displays at the company NTERA (Dublin, Ireland) under confidentiality clauses. Since mid-2010, Dr. Cano has coordinated the Division of Nano- and Microencapsulation of the Supramolecular NanoChemistry & Materials (NANOUP) research group, led by Prof. ICREA Daniel Maspoch, at the Catalan Institute of Nanoscience and Nanotechnology (ICN2). Her primary role is the coordination of projects of industrial and biomedical interest, including for example the creation of novel disinfectants; capsules to enable self-repairing of damaged wood; capsules for fabric softeners and laundry detergents; and encapsulation-based fungicidal paint. In the field of nanomedicine, she is developing novel systems for the treatment or prevention of various diseases, including type-1 diabetes, Salmonella infection and cerebral stroke. Recently, in the field of metal-organic-frameworks (MOF), she is setting up a commercial 3D printer for the development of 3D MOF superstructures for gas storage and catalysis applications.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Dr. Cano has authored or co-authored 13 articles (233 cites) in prestigious Q1 international journals (Nature Chemistry (86 cites), Chemical Communications (4 cites), Advanced Materials (49cites), ChemPhysChem (6 cites), Applied Environmental Microbiology (1 cite), two in PLoS ONE (one 15 cites), and two in Langmuir (one 43 cites), one book chapter, one guide and 6 patents, one of them was recently licensed with the company MOFApps. Importantly, her work has also contributed to the signing of 3 technology transfer contracts between ICN and three companies for the development, scale-up and sale of encapsulated products (see LuctaCaps and Fungipol@CP). Very importantly, ICN2 is now receiving royalties of 3 to 5% from sales of these products; for instance, ICN2 is receiving royalties from Lucta, S.A. (€1800 in 2014).

Dr. Cano has participated in 41 research projects funded by the European Commission (2), the Spanish government (21) and companies (18). She has presented her research at 27 international, peer-reviewed conferences and workshops. Moreover, Dr. Cano has supervised 1 MSc, 1 Erasmus and currently 3 post-doc, 3 PhD students and one more PhD student as thesis co-director. Finally, she has participated in training of secondary school students Jovenes y Ciencia (La Caixa) and undergraduate students in Nanotechnology Grade (UAB).



Antonia María Cano Sarabia

Surname(s): **Cano Sarabia**
Name: **Antonia María**
DNI: **48417129J**
ORCID: **0000-0003-4254-8157**
Date of birth: **28/12/1979**
Gender: **Female**
Nationality: **Spain**
Country of birth: **Spain**
Aut. region/reg. of birth: **Region of Murcia**
Contact province: **Region of Murcia**
City of birth: **Alguazas**
Contact address: **Mayor, 7**
Postcode: **30560**
Contact country: **Spain**
Contact aut. region/reg.: **Region of Murcia**
Contact city: **Alguazas**
Land line phone: **(+34) 937374637**
Email: **mary.cano@icn2.cat**
Mobile phone: **(+34) 657572344**

Current professional situation

Employing entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

Professional category: Head of the Encapsulation Division at the Supramolecular NanoChemistry & Materials Group

Start date: 01/09/2010

Type of contract: Temporary employment contract **Dedication regime:** Full time

Primary (UNESCO code): 230600 - Organic chemistry; 240000 - Life Science; 330300 - Chemical technology and engineering

Secondary (UNESCO code): 230100 - Analytical chemistry; 239000 - Pharmaceutical Chemistry; 240300 - Biochemistry

Tertiary (UNESCO code): 331000 - Industrial technology; 331200 - Materials technology

Performed tasks: Since 2010, I have coordinated the Nano- and Microencapsulation Division of the Supramolecular NanoChemistry & Materials (NANOUP) research group. At ICN I began two new research lines: one dealing with the development of novel nanocarriers based on colloidal systems (e.g. micelles and liposomes) for biomedical applications; and the other, on the development and optimization of new products based on micro- and nanoencapsulation technologies slated for the marketplace, in close collaboration with various companies.

Identify key words: Analytic chemistry; Relation structure-activity; Mechanisms of drugs action; Chemical research on toxicology; Synthesis of active biological compounds; Supramolecular organic chemistry; Biomedicine; Chemistral tecnology

Previous positions and activities



	Employing entity	Professional category	Start date
1	NTERA (Dublin)	Marie Curie FP7 Post-Doctorate	01/08/2009
2	Instituto de Ciencia de los Materiales de Barcelona	FPU Doctorate Fellow	01/01/2004
3	Universidad de Murcia	Fellow at Department of Health and Safety	01/10/2002
4	University of Bath (UK)	Erasmus fellow	01/07/2003
5	Universidad de Murcia	Final degree fellow	01/01/2001

- 1** **Employing entity:** NTERA (Dublin)
Professional category: Marie Curie FP7 Post-Doctorate
Start-End date: 01/08/2009 - 30/07/2010 **Duration:** 1 year
- 2** **Employing entity:** Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency
Professional category: FPU Doctorate Fellow
Start-End date: 01/01/2004 - 31/07/2009 **Duration:** 5 years - 7 months
- 3** **Employing entity:** Universidad de Murcia **Type of entity:** University
Professional category: Fellow at Department of Health and Safety
Start-End date: 01/10/2002 - 31/12/2003 **Duration:** 1 year - 3 months
- 4** **Employing entity:** University of Bath (UK)
Professional category: Erasmus fellow
Start-End date: 01/07/2003 - 30/09/2003 **Duration:** 3 months
- 5** **Employing entity:** Universidad de Murcia **Type of entity:** University
Professional category: Final degree fellow
Start-End date: 01/01/2001 - 01/06/2002 **Duration:** 1 year - 5 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Master
Name of qualification: Master in Initiation to Materials Science Research
Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Date of qualification: 21/11/2006
- 2** **University degree:** Master
Name of qualification: Certificado de Actitud Pedagógica (CAP) tecnología
Degree awarding entity: Universidad de Murcia **Type of entity:** University
Date of qualification: 01/06/2004
- 3** **University degree:** Higher degree
Name of qualification: Ingeniero Químico
Degree awarding entity: Universidad de Murcia **Type of entity:** University
Date of qualification: 11/11/2002

Doctorates

Doctorate programme: Ciencias de materiales
Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Date of degree: 28/09/2009

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1** **Training title:** Seminario sobre aditivos para sistemas con resinas termoestables
Awarding entity: Comindex
End date: 04/05/2017 **Duration in hours:** 4 hours
- 2** **Training title:** From Science to Business
Awarding entity: ESADE-Escuela Universitaria de Turismo Sant Ignasi **Type of entity:** University Centres and Structures and Associated Bodies
End date: 2017 **Duration in hours:** 24 hours
- 3** **Training title:** 5th training school on Bioencapsulation
Awarding entity: BRG -University of Nantes **Duration in hours:** 24 hours
End date: 2013



- 4 Training title:** Fabrication, caractérisation et utilisation des liposomes et des nanoparticules lipidiques.
City awarding entity: Paris,
Awarding entity: Faculté de Pharmacie. Université Paris-Sud.
End date: 2007 **Duration in hours:** 40 hours
- 5 Training title:** Advance course of particle size distribution by Laser Diffraction
Awarding entity: Malvern Instruments
End date: 2006 **Duration in hours:** 7 hours
- 6 Training title:** Socrates Intensive Course HPCEP-IP. "Basics, developments, research and industrial
City awarding entity: Lisboa,
Awarding entity: HPCEP-IP
End date: 2005 **Duration in hours:** 80 hours
- 7 Training title:** Summer School 2005 Max Planck Institute of Colloids and Interfaces
City awarding entity: Tarragona,
Awarding entity: Max Planck
End date: 2005 **Duration in hours:** 35 hours

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

Title of course/seminar: Leadership in Action

Goals of the course/seminar: Coaching, Leadership practice

Organising entity: VITAE- BIST

Type of entity: Business

Duration in hours: 28 hours

Start-End date: 10/05/2017 - 12/05/2017

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French		A1	A1	A1	A1
Catalan		C1	C1	C1	C1
Spanish		C1	C1	C1	C1
English		C1	C1	C1	C1

Teaching experience



General teaching experience

- 1** **Name of the course:** Technology Transfer: from Academia to Companies
University degree: Grado de Nanotecnología
Start date: 2014 **End date:** 2014
End date: 2014 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 1
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Química
- 2** **Name of the course:** Technology Transfer: from Academia to Companies
University degree: Grado de Nanotecnología
Start date: 2013 **End date:** 2013
End date: 2013 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 1
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Química
- 3** **Name of the course:** Nano and Microencapsulation
University degree: Master de Immunología
Start date: 2012 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Farmacia
- 4** **Type of teaching:** Official teaching
Name of the course: Tecnología
University degree: 3º ESO - Prácticas CAP
Start date: 2004 **End date:** 2004
End date: 2004 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 50
Entity: IES Villa de Alguazas **Type of entity:** Instituto de educación secundaria
Faculty, institute or centre: Instituto de educación secundaria

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Síntesis y caracterización de nanodiscos a partir del ensamblaje de estructuras lipídicas y proteínas recombinantes ApoJ y ApoA1 para el estudio de la interacción y el transporte de péptidos beta-amiloide.
Type of project: Doctoral thesis
Co-director of thesis: MAR HERNÁNDEZ
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Sofia Fernández de Retana Alda
Date of reading: 2018
- 2** **Project title:** Encapsulation of bacteriophages in lipidic micro- and nanocapsules for the treatment of Salmonellosis in farm animals
Type of project: End of course project



Co-director of thesis: DANIEL MASPOCH COMAMALA

Entity: Universitat de Siena

Type of entity: University

Student: AGNESE CIARDI

Obtained qualification: Sobresaliente

Date of reading: 2013

3 Project title: Encapsulation of phages for the oral treatment of Salmonella in animals

Type of project: Work leading to an ASD

Co-director of thesis: DANIEL MASPOCH COMAMALA

Entity: Universitat Autònoma de Barcelona

Type of entity: University

Student: JAVIER ARIÑEZ SORIANO

Obtained qualification: Sobresaliente

Date of reading: 2011

Participation in innovative teaching projects

1 Project title: Introduction to Innovation & Entrepreneurship-Nanotechnology Innovation

Type of participation: Docencia

Time of working relationship: For a limited time

Funding entity: Universitat Autònoma de Barcelona-
University Texas

Type of entity: University

Start-End date: 2015 - 2015

Duration: 1 month

2 Project title: OPEN KNOWLEDGE PROGRAM - ICN2

Type of participation: Docencia

Time of working relationship: For a limited time

Funding entity: Instituto catalán de nanociencia y nanotecnología

Start-End date: 2015 - 2015

Duration: 1 day

3 Project title: Exploración de nuevas metodologías de micro- y nanoencapsulación

Type of participation: Co-ordinator

Time of working relationship: For a limited time

Funding entity: Catalunya Caixa - Programa Joves i
Ciència

Type of entity: Business

Start-End date: 2011 - 2015

Duration: 5 months

4 Project title: Nanotechnology Innovation 2014

Type of participation: Others

Time of working relationship: For a limited time

Funding entity: Universitat Autònoma de Barcelona-
University Texas

Type of entity: University

Start-End date: 2014 - 2014

Duration: 1 month

5 Project title: Tecnologías de encapsulación

Type of participation: Co-ordinator

Time of working relationship: For a limited time

Funding entity: Ajuntament de Barcelona - programa
Escolab

Type of entity: State agency

Start-End date: 2011 - 2013

Duration: 1 month



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Departament Farmacologia, Toxicologia i Terapèutica- Prof. Jordi Alberola Domingo
Aims of the group: Development of liposomes for Leishmania treatment
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Universitat Autònoma de Barcelona **Type of entity:** University
Start date: 2017 **Duration:** 4 years
- 2 Name of the group:** AIDS Research Institute Irsicaixa- Prof. Javier Martinez Picado
Aims of the group: Development of nanotherapies for AIDS
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: AIDS Research Institute Irsicaixa **Type of entity:** Public Research Body
Start date: 2017
- 3 Name of the group:** Hepatology Unit. Gastroenterology Department - Dr. Vicente Lorenzo-Zúñiga García and Dr. Ramón Bartolí
Aims of the group: Development of drug platforms based on dressing for colonoscopy
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Hospital Universitari Germans Trias i Pujol de Badalona **Type of entity:** Healthcare Institutions
Start date: 2014 **Duration:** 1 year
- 4 Name of the group:** Immunology of Diabetes Research Group - Prof. Marta Vives-Pi
Aims of the group: Study of Immunology of Type 1 diabetes, the loss of peripheral tolerance and on strategies for immunotherapy to prevent Type 1 diabetes
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Hospital Universitari Germans Trias i Pujol de Badalona **Type of entity:** Healthcare Institutions
Start date: 2013 **Duration:** 2 months
- 5 Name of the group:** Grupo de Microbiología Clínica y Patología Infecciosa Experimental- Prof. Vicente Ausina
Aims of the group: Desarrollo, estandarización y evaluación clínica de técnicas inmunológicas
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Hospital Universitari Germans Trias i Pujol de Badalona **Type of entity:** Healthcare Institutions
Start date: 2011 **Duration:** 4 years - 4 months
- 6 Name of the group:** Protein Engineering and Proteomics - Dra. Julia Lorenzo
Aims of the group: Design of proteins for enzyme control
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Institut de Biotecnologia i de Biomedicina **Type of entity:** University Research Institute
Start date: 2011 **Duration:** 3 years



- 7** **Name of the group:** Laboratorio de Investigación Neurovascular - Prof. Joan Montaner , Dr. Mar Hernández
Aims of the group: Development of liposomes for the treatment of neurodegenerative diseases
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Vall d'Hebron Institute of Research **Type of entity:** Healthcare Institutions
Start date: 2011 **Duration:** 4 years
- 8** **Name of the group:** Evolutive Immunology - Prof. Nerea Roher
Aims of the group: Development of nanovaccines for fish species of commercial interest
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Institut de Biotecnologia i de Biomedicina **Type of entity:** University Research Institute
Start date: 2011 **Duration:** 4 years - 5 months
- 9** **Name of the group:** Molecular Microbiology Group - Prof. Montserrat Llagostera
Aims of the group: Development of Biomaterials
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Universitat Autònoma de Barcelona **Type of entity:** University
Start date: 2010 **Duration:** 4 years

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Multifunctional micro- and nanostructures assembled from nanoscale metal-organic frameworks and inorganic nanoparticles, InanoMOF
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
City of entity: Bellaterra, Spain
Name principal investigator (PI, Co-PI....): DANIEL MASPOCH COMAMALA
Funding entity or bodies:
 ERC **Type of entity:** European Research Council
City funding entity: Bruselas, Belgium
Type of participation: Others
Name of the programme: ERC-Co 2013
Code according to the funding entity: 615954
Start-End date: 01/02/2014 - 31/01/2019
Total amount: 1.943.000 €
- 2** **Name of the project:** Estabilización de especies de hierro vía microencapsulación para mejorar su funcionalidad y biodisponibilidad en sistemas alimentarios
Geographical area: National
Degree of contribution: Scientific coordinator
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
City of entity: Barcelona,
Name principal investigator (PI, Co-PI....): Antonia M^a Cano Sarabia; Elizabeth Escudero
Nº of researchers: 10 **Nª people/year:** 3
Funding entity or bodies:
 Generalitat de Catalunya **Type of entity:** ACCIÓ



City funding entity: Barcelona, Catalonia, Spain

Type of participation: Co-ordinator

Name of the programme: PROGRAMA NUCLIS

Code according to the funding entity: NUCLIS

Start-End date: 01/10/2015 - 30/09/2016

Duration: 2 years

Total amount: 46.995 €

Sub-project amount: 46.995 €

Percentage as grant: 100

- 3** **Name of the project:** Design and Synthesis of Metal-Organic Frameworks (MOFs) at the Nanoscale Regime for Advanced Biomedical Applications, MOFs@bio
- Geographical area:** National
- Degree of contribution:** Researcher
- Entity where project took place:** FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
- City of entity:** Bellaterra, Spain
- Name principal investigator (PI, Co-PI....):** DANIEL MASPOCH COMAMALA
- Funding entity or bodies:**
MINECO **Type of entity:** State agency
- City funding entity:** Madrid, Spain
- Type of participation:** Others
- Name of the programme:** Plan Nacional
- Code according to the funding entity:** MAT2012-30994
- Start-End date:** 01/02/2013 - 31/01/2016
- Total amount:** 187.000 €

- 4** **Name of the project:** Desarrollo de una nueva generación de productos biocidas con efecto inmediato, remanente y capacidad para reducir la transferencia de microorganismos, DESPRO-CIDE
- Geographical area:** National
- Degree of contribution:** Coordinator of total project, network or consortium
- Entity where project took place:** FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
- City of entity:** Bellaterra, Spain
- Name principal investigator (PI, Co-PI....):** ANTONÍA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
- Funding entity or bodies:**
MINECO **Type of entity:** State agency
- City funding entity:** Madrid, Spain
- Type of participation:** Co-ordinator
- Name of the programme:** INNPACTO 2012
- Code according to the funding entity:** IPT-2012-0785-420000
- Start-End date:** 01/11/2012 - 30/10/2015
- Total amount:** 160.000 €

- 5** **Name of the project:** Micro- and nanoencapsulated biocides: the next generation of disinfectants with short + long-2Life antimicrobial activity, BIOCIDE2LIFE.
- Geographical area:** Regional
- Degree of contribution:** Coordinator of total project, network or consortium
- Entity where project took place:** FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
- City of entity:** Bellaterra, Catalonia, Spain
- Name principal investigator (PI, Co-PI....):** ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
- Funding entity or bodies:**



CERCA

Type of entity: Institución**City funding entity:** Barcelona, Spain**Type of participation:** Co-ordinator**Name of the programme:** PROVAT**Code according to the funding entity:** PROVAT-2011-015**Start-End date:** 01/01/2012 - 31/12/2013**Total amount:** 328.000 €**6 Name of the project:** AUTORREPARA, development of protective covering by microencapsulated systems for wood repair.**Geographical area:** National**Degree of contribution:** Scientific coordinator**Entity where project took place:** FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA**City of entity:** Bellaterra, Catalonia, Spain**Name principal investigator (PI, Co-PI....):** DANIEL MASPOCH; VIRTUDES NAVARRO**Funding entity or bodies:**

MINECO

Type of entity: State agency**City funding entity:** Madrid, Spain**Type of participation:** Co-ordinator**Name of the programme:** INNFACTO 2011**Code according to the funding entity:** IPT-2011-1229-020000**Start-End date:** 01/11/2011 - 31/12/2013**Total amount:** 174.210 €**7 Name of the project:** Valorization and commercialization plan of a phagic cocktail based on nanoencapsulation techniques for controlling salmonella.**Degree of contribution:** Researcher**Entity where project took place:** Universitat Autònoma de Barcelona**Type of entity:** University**City of entity:** Bellaterra, Catalonia, Spain**Name principal investigator (PI, Co-PI....):** MONTSERRAT LLAGOSTERA**Funding entity or bodies:**

AGAUR

Type of entity: State agency**City funding entity:** Barcelona, Spain**Type of participation:** Co-ordinator**Name of the programme:** VALOR**Code according to the funding entity:** 2010VALOR00114**Start-End date:** 14/01/2011 - 30/11/2013**Total amount:** 76.000 €**8 Name of the project:** Food security: development of new technologies based on bacteriophages for controlling salmonella.**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** Universitat Autònoma de Barcelona**Type of entity:** University**City of entity:** Bellaterra, Spain**Name principal investigator (PI, Co-PI....):** MONTSERRAT LLAGOSTERA**Funding entity or bodies:**

Obra Social Fundación la Caixa

Type of entity: Foundation



City funding entity: Barcelona, Catalonia, Spain

Type of participation: Others

Name of the programme: RECERCAIXA

Code according to the funding entity: -

Start-End date: 01/01/2011 - 30/11/2013

Total amount: 74.000 €

- 9 Name of the project:** Estudio in vivo de la biodistribución y efecto inmunológico de compuestos activos encapsulados en nanoliposomas marcados con quantum dots, InmuneLipo.

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universitat Autònoma de Barcelona

Type of entity: University

City of entity: Bellaterra, Catalonia, Spain

Name principal investigator (PI, Co-PI....): NEREA ROHER ARMENTIA

Funding entity or bodies:

UAB

Type of entity: University

City funding entity: Cerdanyola, Spain

Type of participation: Others

Name of the programme: APOSTA

Code according to the funding entity: PZ610461

Start-End date: 01/11/2011 - 01/11/2013

Total amount: 26.000 €

- 10 Name of the project:** DESPRO NANO, long-lasting disinfectants

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

City of entity: Bellaterra, Catalonia, Spain

Name principal investigator (PI, Co-PI....): DANIEL MASPOCH COMAMALA

Funding entity or bodies:

MICINN

Type of entity: State agency

City funding entity: Madrid, Spain

Type of participation: Others

Name of the programme: TRACE 2009

Code according to the funding entity: TRACE2009_0370_01

Start-End date: 01/06/2010 - 31/05/2013

Total amount: 51.000 €

- 11 Name of the project:** NANO-SCENT, control release of fragrances

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

City of entity: Bellaterra, Catalonia, Spain

Name principal investigator (PI, Co-PI....): INHAR IMAZ GABILONDO

Funding entity or bodies:

MICINN

Type of entity: State agency

City funding entity: Madrid, Spain

Type of participation: Others



Name of the programme: TRACE 2009
Code according to the funding entity: TRACE2009_0325
Start-End date: 01/06/2010 - 31/05/2012
Total amount: 84.000 €

- 12 Name of the project:** Materiales moleculares funcionales nanoestructurados” (EMOCIONA)
Degree of contribution: Researcher
Entity where project took place: Instituto de Ciencia Type of entity: State agency
de los Materiales de Barcelona
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Jaume Veciana
Nº of researchers: 20
Funding entity or bodies:
Dirección general de Investigación **Type of entity:** State agency
Start-End date: 10/2006 - 11/2011
- 13 Name of the project:** Evaluation of fragrance encapsulation, adhesion to textile and controlled release.
Geographical area: Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
City of entity: Bellaterra, Catalonia, Spain
Name principal investigator (PI, Co-PI....): DANIEL MASPOCH COMAMALA
Funding entity or bodies:
ACC10 **Type of entity:** State agency
City funding entity: Barcelona, Spain
Type of participation: Others
Name of the programme: VALTEC
Code according to the funding entity: VALTEC09-1-0046
Start-End date: 30/06/2009 - 30/06/2011
Total amount: 75.000 €
- 14 Name of the project:** Development of advanced electronic paper-like display technologies – Nanochromics
Degree of contribution: Researcher
Entity where project took place: NTERA Limited
City of entity: Ireland
Name principal investigator (PI, Co-PI....): David M. Corr
Nº of researchers: 6
Funding entity or bodies:
Marie Curie FP7 **Type of entity:** Public Research Body
Start-End date: 08/2009 - 08/2010
- 15 Name of the project:** Centro de investigación biomédica en red CIBER-BBN”
Degree of contribution: Researcher
Entity where project took place: Instituto de Ciencia Type of entity: Public Research Body
de los Materiales de Barcelona
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Nora Ventosa
Funding entity or bodies:
MINISTERIO DE SANIDAD Y CONSUMO
City funding entity: Spain



Start-End date: 09/2006 - 08/2010

16 Name of the project: Centre NANOMOL. Xarxa d'Innovació tecnològica

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Nora Ventosa; Jaume Veciana

Funding entity or bodies:

Generalitat de Catalunya

Type of entity: CIDEM

City funding entity: Barcelona, Catalonia, Spain

Start-End date: 06/2006 - 06/2009

17 Name of the project: Xarxa de Referència d'R+D+I en materials avançats per l'Energia. XARMAE"

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Concepción Rovira

Funding entity or bodies:

DURSI (2005 SGR-00591)

Type of entity: Public Research Body

City funding entity: Barcelona, Catalonia, Spain

Start-End date: 03/2003 - 02/2009

18 Name of the project: Grup de Recerca de Consolidat: Laboratori de Materials Orgànics, ICMAB (CSIC)"

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Jaume Veciana

Funding entity or bodies:

DURSI

Type of entity: Public Research Body

Start-End date: 06/2005 - 12/2008

19 Name of the project: Preparación y caracterización de nuevos materiales nanoestructurados para la liberación controlada de fármacos NANOFAR

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Jaume Veciana

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología **Type of entity:** -

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 12/2005 - 11/2008

20 Name of the project: Molecular approach to nanomagnets and multifunctional materials" (Network of Excellence MAGMANET)

Degree of contribution: Researcher



Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona
Type of entity: State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Concepció Rovira; Jaume Veciana

Funding entity or bodies:

NMP3-CT-2005-515767

Start-End date: 05/2005 - 04/2008

21 Name of the project: Nanoestructuración de compuestos moleculares funcionales mediante fluidos comprimidos

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona
Type of entity: State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Nora Ventosa

Funding entity or bodies:

Consejo Superior de Investigaciones Científicas
Type of entity: State agency

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 09/2006 - 12/2007

22 Name of the project: DELOS processing of polymeric materials

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona
Type of entity: State agency

City of entity: Bellaterra, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Jaume Veciana; Nora Ventosa

Nº of researchers: 5

Funding entity or bodies:

MATGAS AIE

Type of entity: Business

City funding entity: Barcelona, Catalonia, Spain

Start-End date: 06/2003 - 05/2004

23 Name of the project: Determinación de ozono, irradiación, benceno, tolueno, xilenos en el aire ambiente de núcleos urbanos de la Región de Murcia”

Degree of contribution: Researcher

Entity where project took place: Universidad de Murcia
Type of entity: University

City of entity: Murcia, Region of Murcia, Spain

Name principal investigator (PI, Co-PI....): Agustín Miñana Aznar

Nº of researchers: 5

Funding entity or bodies:

Ministerio del Interior

Type of entity: UM

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 11/2002 - 12/2002

24 Name of the project: Terapia contra la autoinmunidad para la prevención y la curación de la diabetes tipo 1. Nanopartículas tipo liposoma que re-educan el sistema inmunológico para permitir la regeneración de las células beta.

Entity where project took place: Hospital Universitari Germans Trias i Pujol

Type of entity: Healthcare Institutions



City of entity: Badalona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Marta Vives-Pi
Nº of researchers: 12
Funding entity or bodies:
 DiabetesCero
Type of participation: Team member
Start date: 30/04/2017
Total amount: 25.000 €

R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** Absorción de fragrançais en polisacáridos
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Antonia M^a Cano; Daniel MasPOCH
Nº of researchers: 3
Funding entity or bodies:
 Eurofragrances S.L. **Type of entity:** Business
City funding entity: Barcelona
Start date: 02/05/2017 **Duration:** 4 months
Total amount: 12.266 €
- 2 Name of the project:** Encapsulación de cristales líquidos para LCD
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Mary Cano; Sonia García; Daniel MasPOCH
Funding entity or bodies:
 LG **Type of entity:** Business
City funding entity: Korea
Start date: 01/04/2017 **Duration:** 1 year
Total amount: 100.000 €
- 3 Name of the project:** LEISHMANIA
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Mary Cano; Alba Martinez; Clara Martori; Jordi Alberola Domingo; Alhelí Rodríguez Cortés; Daniel MasPOCH; Mary Cano
Nº of researchers: 6
Funding entity or bodies:
 Universitat Autònoma de Barcelona **Type of entity:** University
City funding entity: Cerdanyola del Vallès, Catalonia, Spain
Start date: 01/02/2017 **Duration:** 1 year
Total amount: 11.410 €
- 4 Name of the project:** Nanoparticules for AIDS
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Javier Martinez Picado; Susana Benet; Nuria Izquierdo; Daniel MasPOCH; Mary Cano
Nº of researchers: 6
Funding entity or bodies:
 AIDS Research Institute Irsicaixa



Start date: 09/01/2017
Total amount: 10.000 €

Duration: 1 year

5 Name of the project: Development of releasing ozone/chlorine dioxide microcapsules for smart toothpastes in dental hygiene

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): Antonia M^a Cano Sarabia

Nº of researchers: 4

Funding entity or bodies:

Lacer, S.A.

Type of entity: Business

City funding entity: Barcelona, Catalonia, Spain

Start date: 01/12/2015

Duration: 1 year

Total amount: 60.000 €

6 Name of the project: Preparación de nanopartículas con níquel

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): Antonia M^a Cano Sarabia

Nº of researchers: 1

Funding entity or bodies:

Laboratorios Hipra, S.A.

Type of entity: Business

City funding entity: Amer, Catalonia, Spain

Start date: 01/07/2015

Duration: 6 months

Total amount: 2.476 €

7 Name of the project: Incorporación de fármacos en apósitos para el colon

Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

Name principal investigator (PI, Co-PI....): Antonia M^a Cano Sarabia; Vicente Lorenzo Zúñiga García; Ramón Bartolí Solé

Nº of researchers: 4

N^a people/year: 4

Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA; Hospital Universitari Germans Trias i Pujol

Funding entity or bodies:

Hospital Universitari Germans Trias i Pujol de Badalona

Type of entity: Healthcare Institutions

City funding entity: Badalona, Catalonia, Spain

Start date: 01/03/2015

Duration: 6 months

Total amount: 5.000 €

Sub-project amount: 7.145 €

8 Name of the project: Nanoparticle encapsulation for Enhanced Oil Recovery (EOR)

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA; SONIA GARCÍA GIMENO

Nº of researchers: 3

Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

Funding entity or bodies:

CEPSA

Type of entity: Business



City funding entity: Madrid, Spain

Start date: 15/01/2015

Duration: 6 months

Total amount: 49.250 €

- 9 Name of the project:** Development of high density lipoproteins for Alzheimer's disease
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Soffia Fernandez de Renata; ANTONIA M^a CANO SARABIA; Mar Hernández Guillamon; DANIEL MASPOCH COMAMALA
Nº of researchers: 3
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies: FUNDACIO INSTITUT DE RECERCA DE L'HOSPITAL UNIV. VALL D'HEBRON
City funding entity: Catalonia, Spain
Start date: 01/01/2015 **Duration:** 1 year
Total amount: 3.400 €
- 10 Name of the project:** Optimization of gel dressing for colonoscopy
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Antonia M^a Cano Sarabia; Vicente Lorenzo Zúñiga García; Ramón Bartolí Solé
Nº of researchers: 4 **N^a people/year:** 4
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA; Hospital Universitari Germans Trias i Pujol
Funding entity or bodies: Hospital Universitari Germans Trias i Pujol de Badalona **Type of entity:** Healthcare Institutions
City funding entity: Badalona, Catalonia, Spain
Start date: 01/05/2014 **Duration:** 6 months
Total amount: 7.145 € **Sub-project amount:** 7.145 €
- 11 Name of the project:** Encapsulation of essential oils with antibacterial properties
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies: Callizo Aromas SA **Type of entity:** Business
City funding entity: La Asunción de Belén, Costa Rica
Start date: 15/01/2014 **Duration:** 1 year
Total amount: 45.000 €
- 12 Name of the project:** Encapsulating of whitening agents for industrial belts
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

**Funding entity or bodies:**

Esbelt SA

Type of entity: Business**City funding entity:** Manlleu, Spain**Start date:** 01/01/2014**Duration:** 1 year**Total amount:** 53.000 €

- 13 Name of the project:** Nanotechnology for Enhanced Oil Recovery (EOR)
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA

Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA**Funding entity or bodies:**

CEPSA

Type of entity: Business**City funding entity:** Madrid, Spain**Start date:** 13/12/2013**Duration:** 3 months**Total amount:** 4.250 €

- 14 Name of the project:** Preparation of PLGA nanoparticles
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA

Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA**Funding entity or bodies:**

Juvilis Cosmetics SL

Type of entity: Business**City funding entity:** Barcelona, Spain**Start date:** 20/09/2013**Duration:** 3 months**Total amount:** 2.500 €

- 15 Name of the project:** Encapsulación de autoantígenos relevantes en DT1 en liposomas de fosfatidilserina.
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA

Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA**Funding entity or bodies:**

Hospital Universitari Germans Trias i Pujol de Badalona

Type of entity: Healthcare Institutions**City funding entity:** Badalona, Catalonia, Spain**Start date:** 28/02/2013**Total amount:** 6.246 €

- 16 Name of the project:** Encapsulation of omega-3 by spray-drying
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): ANTONIA MARIA CANO SARABIA; DANIEL MASPOCH COMAMALA

Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA**Funding entity or bodies:**

LIPOFOODS SL

City funding entity: Spain**Start date:** 21/05/2012**Duration:** 2 years



Total amount: 27.485 €

- 17 Name of the project:** Encapsulation of drugs (statins) in nanoliposomes
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI...): DANIEL MASPOCH COMAMALA; ANTONIA M^a CANO SARABIA
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies: FUNDACIO INSTITUT DE RECERCA DE L'HOSPITAL UNIV. VALL D'HEBRON
City funding entity: Catalonia, Spain
Start date: 04/07/2011
Total amount: 8.700 €
- 18 Name of the project:** Spray drying miniaturization of enzymes.
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI...): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies: ARQUEBIO SL
City funding entity: Catalonia, Spain
Start date: 04/07/2011 **Duration:** 1 year
Total amount: 12.000 €
- 19 Name of the project:** Encapsulación de fungicidas en micro- y nanosistemas.
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI...): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies: CHEMIPOL **Type of entity:** Business
City funding entity: Terrassa, Spain
Start date: 01/07/2009 **Duration:** 3 years - 6 months
Total amount: 218.800 €
- 20 Name of the project:** Encapsulación de biocidas en micro- y nanosistemas para prolongar su actividad biocida.
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI...): ANTONIA MARÍA CANO SARABIA; DANIEL MASPOCH COMAMALA
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies: DESPRO **Type of entity:** Business
City funding entity: Barcelona, Spain
Start date: 15/04/2009 **Duration:** 4 years
Total amount: 74.650 €
- 21 Name of the project:** Desarrollo de sistemas de encapsulación de fragancias para detergentes y suavizantes textiles.
Degree of contribution: Scientific coordinator



Name principal investigator (PI, Co-PI....): DANIEL MASPOCH COMAMALA; Antonia M^a Cano Sarabia
Participating entity/entities: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Funding entity or bodies:
 Lueta, S.A. **Type of entity:** Business
City funding entity: Montornes del Vallés, Catalonia, Spain
Start date: 02/06/2008 **Duration:** 6 years
Total amount: 334.300 €

- 22** **Name of the project:** Guía técnica para el análisis del riesgo en almacenamientos de productos químicos peligrosos
Degree of contribution: Current university student
Name principal investigator (PI, Co-PI....): JOSE RUIZ GIMENO; AGUSTÍN MINAÑA AZNAR
Nº of researchers: 5
Funding entity or bodies:
 Ministerio del Interior **Type of entity:** Protección civil
City funding entity: Madrid, Community of Madrid, Spain
Start date: 01/01/2003 **Duration:** 1 year

Results

Industrial and intellectual property

- 1** **Title registered industrial property:** Biocidal composition with dual immediate and remnant activity
Type of industrial property: Patent of invention **Author's rights:** Yes
Trade secret: Yes
Inventors/authors/obtainers: Antonia M^a Cano Sarabia; Vicente Ausina Ruiz; Gérard Martorell Loubiere; Agueda Hernández Rodríguez; Daniel Maspoch Comamala
Entity holder of rights: DESPRO S.L.
Reference/registry code: 300144493 **Nº of application:** EP14382498
Country of inscription: Spain
Date of register: 05/12/2014
Spanish patent: Yes
International non-EU patent: No **PCT patent:** Yes
- 2** **Title registered industrial property:** Sistema de liberación de bacteriófagos que comprende la encapsulación de los mismos
Type of industrial property: Patent of invention **Author's rights:** Yes
Trade secret: No
Inventors/authors/obtainers: Antonia M^a Cano Sarabia; Pilar Cortés Garmendia; Montserrat Llagostera; Daniel Maspoch Comamala
Entity holder of rights: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Nº of application: EP14382057
Country of inscription: Spain
Date of register: 20/02/2014
Nº of patent: EP14382057
Spanish patent: Yes
PCT patent: Yes
Exclusive use: No



- 3** **Title registered industrial property:** Liposome-based immunotherapy
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Antonia M^a Cano Sarabia; Marta Vives-Pi; Irma Pujol; Joan Verdaguer; Daniel Maspoch Comamala
Entity holder of rights: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
N° of application: EP14151629
Country of inscription: Spain
Date of register: 17/01/2014
Spanish patent: Yes
PCT patent: Yes
- 4** **Title registered industrial property:** Microencapsulated biocides for long-lasting activity
Type of industrial property: Technology transfer contract
Entity holder of rights: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Date of register: 23/07/2013
- 5** **Title registered industrial property:** Method for the preparation of metal organic frameworks
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Daniel Maspoch; Inhar Imaz; Arnau Carné; Mary Cano Sarabia
Entity holder of rights: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
N° of application: EP11183773
Country of inscription: Spain, Catalonia
Date of register: 04/10/2011
Conferral date: 10/04/2013
Spanish patent: Yes
PCT patent: Yes
Licences: Yes
- 6** **Title registered industrial property:** Micro- and nanoencapsulation of fungicides
Type of industrial property: Technology transfer contract
Entity holder of rights: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Date of register: 20/07/2012
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
- 7** **Title registered industrial property:** Procedimiento para la obtención de micro- o nanopartículas sólidas
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Antonia M^a Cano; Nora Ventosa; Jaume Veciana; Santiago Sala
Entity holder of rights: Consejo superior de investigaciones científicas (CSIC)
N° of application: PCT/ES2009/070485
Country of inscription: Spain, Catalonia
Date of register: 08/07/2010
Conferral date: 08/07/2010
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
Licences: Yes
- 8** **Title registered industrial property:** Micro- and nanoencapsulation of fragrances
Type of industrial property: Technology transfer contract
Entity holder of rights: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA



Date of register: 01/03/2010

Companies: Lucta, S.A.

- 9 Title registered industrial property:** Method for obtaining micro- and nano-disperse systems
Inventors/authors/obtainers: Antonia M^a Cano; Nora Ventosa; Jaume Veciana; Santiago Sala
Entity holder of rights: Sociedad Española de Carburos Metálicos S.A.
N° of application: PCT WO2006/0799889 A1
Country of inscription: Spain, Catalonia
Date of register: 31/01/2005
Conferral date: 31/01/2005
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
Licences: No

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Joan Colon; Mary Cano-Sarabia; Jennifer Otero; Javier Ariñez Soriano; Pilar Cortes; Daniel Maspoch; Monstserrat Llagostera. Microencapsulation with alginate/CaCO₃: A strategy for improved phage therapy. Scientific Reports. 7 - 41441, pp. 1 - 10. Nature, 2017.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 7 **Corresponding author:** Yes
Relevant results: DOI: 10.1038/srep41441
- 2** Luis Garzón Tovar; Mary Cano Sarabia; Arnau Carné Sancher; Carles Carbonell; Inhar Imaz; Daniel Maspoch. A spray-drying continuous-flow method for simultaneous synthesis and shaping of microspherical high nuclearity MOF beads. Reaction Chemistry & Engineering. 1, pp. 533 - 539. 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 3** Mireia Campos Martorell; Mary Cano Sarabia; Alba Simats; Mar Hernandez Guillamon; Anna Rosell; Daniel Maspoch; Joan Montaner. Charge effect of a liposomal delivery system encapsulating simvastatin to treat experimental ischemic stroke in rats. International Journal of Nanomedicine. 2016:11, pp. 3035 - 3048. Dovepress, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 4** Sonia Gargía Gimeno; Mary Cano Sarabia; Nereida Mejias; Virtudes Navarro; Ana Belen Frances; Daniel Maspoch. Healing damaged coatings using friction-sensitive hybrid microcapsules. Journal of Materials Chemistry A. 3, pp. 17966 - 17970. Royal Society of Chemistry, 2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 5** Mary Cano-Sarabia; Joan Colon; Jennifer Otero; Pilar Cortes; Daniel Maspoch; Monstserrat Llagostera. Liposome-encapsulated bacteriophages for enhanced oral phage therapy against Salmonella. Applied and environmental microbiology. ASM, 2015.



Type of production: Scientific paper
Relevant results: doi:10.1128/AEM.00812-15

Format: Journal

- 6** Mary Cano-Sarabia; Joan Colon; Jennifer Otero; Pilar Cortes; Daniel Maspoch; Monstserrat Llagostera. Liposome-encapsulated bacteriophages for enhanced oral phage therapy against Salmonella. Applied and environmental microbiology. ASM, 2015.

Type of production: Scientific paper
Relevant results: doi:10.1128/AEM.00812-15

Format: Journal

- 7** Irma Pujol-Autonell; Arnau Serracant; Mary Cano-Sarabia; Rosa M. Ampudia; Daniel Maspoch; Alex Sanchez; Manel Puig-Domingo; Joan Verdager; Marta Vives-Pi. Use of autoantigen-loaded liposomes to arrest autoimmunity in type 1 diabetes. PlosONE. PLOS, 2015.

Type of production: Scientific paper
Relevant results: DOI: 10.1371/journal.pone.0127057

Format: Journal

- 8** Robert Fabian Hankel; Paula Elena Rojas; Mary Cano-Sarabia; Santiago Sala; Jaume Veciana; Andreas Bräuer; Nora Ventosa. Surfactant-free CO₂-based microemulsion-like systems. Chemical Communications. 50, pp. 8215 - 8218. The Royal Society of Chemistry, 2014.

Type of production: Scientific paper

Format: Journal

- 9** Angels Ruyra; Mary Cano-Sarabia; Pablo Gracia-Valtanen; Daniel Yero; Isidre Gibert; Simon A. Mackenzie; Amparo Estepa; Daniel Maspoch; Nerea Noher. Targeting and stimulation of the zebrafish (Danio rerio) innate immune system with LPS/dsRNA-loaded nanoliposomes. Vaccine. 32 - 31, pp. 3955 - 3962. Elsevier, 2014.

Type of production: Scientific paper

Format: Journal

- 10** Àngels Ruyra Ripoll; Antonia María Cano Sarabia; Simon A. Mackenzie; Daniel Maspoch Comamala; Nerea Roher Armentia. A novel liposome-based nanocarrier loaded with an LPS-dsRNA cocktail for fish innate immune system stimulation. PLoS ONE. 8 - 10, pp. e76338. 2013.

Type of production: Scientific paper

- 11** Arnau Carné Sánchez; Inhar Imaz Gabilondo; Antonia María Cano Sarabia; Daniel Maspoch Comamala. A spray-drying strategy for the synthesis of nanoscale metal-organic frameworks and their assembly into hollow superstructures. Nature Chemistry. 5, pp. 203 - 211. 2013.

Type of production: Scientific paper

- 12** Lidia Ferrer-Tasies; Evelyn Moreno-Calvo; Mary Cano-Sarabia; Marcel Aguilera-Arzo; Angelina Angelova; Sylviane Lesieur; Susagna Ricart; Jordi Faraudo; Nora Ventosa; Jaume Veciana. Quatsomes: Vesicles Formed by Self-Assembly of Sterols and Quaternary Ammonium Surfactants. Langmuir. 29 - 22, pp. 6519 - 6528. ACS, 2013.

Type of production: Scientific paper

Format: Journal

- 13** Feral Temelli; Alba Córdoba; Elisa Elizondo; Mary Cano-Sarabia; Jaume Veciana; Nora Ventosa. Phase behavior of phytosterols and cholesterol in carbon dioxide-expanded ethanol. Journal of supercritical fluids. 63, pp. 59 - 68. Elsevier, 2012.

Type of production: Scientific paper

Format: Journal

- 14** Mary Cano-Sarabia; Angelina Angelova; Nora Ventosa; Sylviane Lesieur; Jaume Veciana. Cholesterol induced CTAB micelle-to-vesicle phase transitions. Journal of colloid and interface science. 350 - 1, pp. 10 - 15. 2010.

Type of production: Scientific paper

Format: Journal

- 15** R.M. Ferraz; Cesar Diez; Elena García-Fruitós; E Rodríguez-Carmona; E Vázquez; J. L. Corchero; Mary Cano-Sarabia; Imma Ratera; Nora Ventosa; Jaume Veciana; Antonio Villaverde. A novel bacterial nanomaterial for surface decoration and cell growth stimulation in Tissue Engineering. Human Gene Therapy. 20, pp. 1069 - 1070. 2009.

**Type of production:** Scientific paper**Format:** Journal

- 16** Elena Garcia-Fruitos; Escarlata Rodriguez-Carmona; Cesar Diez-Gil; Rosa M. Ferraz; Esther Vazquez; Jose Luis Corchero; Mary Cano-Sarabia; Imma Ratera; Nora Ventosa; Jaume Veciana; Antonio Villaverde. Surface Cell Growth Engineering Assisted by a Novel Bacterial Nanomaterial. *Advanced materials*. 21 - 42, pp. 4249 - 4253. Wiley, 2009.

Type of production: Scientific paper**Format:** Journal

- 17** Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Cristina Patiño; Rocio Arranz; Jaume Veciana. Preparation of uniform rich cholesterol unilamellar nanovesicles using CO₂-expanded solvents. *Langmuir*. 24 - 6, pp. 2433 - 2437. ACS, 2008.

Type of production: Scientific paper**Format:** Journal

- 18** Santiago Sala; Nora Ventosa; Thierry Tassaing; Mary Cano; Yann Danten; Marcel Besnard; Jaume Veciana. Synergistic Enhancement of the Solubility of Hexamethylenetetramine in Subcritical CO₂-Ethanol Mixtures Studied by Infrared Spectroscopy. *ChemPhysChem*. 6, pp. 587 - 590. Wiley-VCH, 2005.

Type of production: Scientific paper**Format:** Journal

- 19** Antonia María Cano Sarabia; Daniel MasPOCH Comamala. Nanoencapsulation. *Encyclopedia of Nanotechnology*. Springer, 2012.

Type of production: Book chapter**Format:** Book

- 20** José Ruiz Gimeno; Antonia Garcés de Marcilla Val; Agustín Miñana Aznar; Enrique González Ferradás; Antonia M^a Cano Sarabia; Jesús Martínez Alonso. Guía técnica para Casos prácticos de Análisis del riesgo (en los establecimientos de nivel inferior de afectación en el ámbito del Real Decreto 1254/99 [Seveso II]). pp. 1 - 247. (Spain): Dirección General de Protección Civil y Emergencias. Ministerio del Interior Servicio de Publicaciones. Universidad de Murcia, 2005. Available on-line at: <http://www.proteccioncivil.es/catalogo/carpeta02/carpeta22/gt_ariesgo_presen.htm>. ISBN 84-8371-499-X

Legal deposit: MU-1885-2004**Collection:** Guías técnicas de Protección Civil**Type of production:** Scientific book or monograph**Format:** Book**Degree of contribution:** Author or co-author of entire book**Relevant publication:** Yes

Works submitted to national or international conferences

- 1** **Title of the work:** Inmunoterapia con liposomas. Traslación al sistema inmunitario de pacientes con Diabetes Tipo 1
Name of the conference: XXVIII Congreso Nacional de la Sociedad Española de Diabetes
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Barcelona,
Date of event: 05/04/2017
End date: 07/04/2017
Organising entity: SOCIEDAD ESPAÑOLA DE DIABETES
 Silvia Rodriguez; Imma Pujol; David Perna; Mary Cano; Federico Vazqu ez; Eva Aguilera; Marta Vives-Pi.
- 2** **Title of the work:** Diving into apoptosis: liposome-based platform for autoimmune diseases
Name of the conference: X  Congr s de la Societat Catalana d'Immunologia (SCI)
Type of participation: Participatory - poster
Corresponding author: No



City of event: Barcelona,

Date of event: 17/11/2016

End date: 18/11/2016

Organising entity: Societat Catalana d'immunologia

Silvia Rodriguez; Imma Pujol; M^a José Mansilla; Mary Cano; Rosa M^a Ampudia; Marta Vives-Pi; Daniel MasPOCH; Eva Martinez; Thomas Stratmann; Cristina Izquierdo; David Perna; Sonia García; Juan Navarro.

3 Title of the work: Synthesis and characterization of rHDL-rApoJ nanoparticles

Name of the conference: X Simposi de Neurobiologia | Societat Catalana de Biologia

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Barcelona,

Date of event: 06/10/2016

End date: 07/10/2016

Organising entity: Societat Catalana de Biologia

Sofía Fernández-de Retana; Alex Montañaola; José Luis Sanchez; Maialen De-Lacuesta; Joan Montaner; Daniel MasPOCH; Mary Cano; Mar Hernández.

4 Title of the work: Synthesis and characterization of rHDL-rApoJ nanoparticles

Name of the conference: 5th International CAA Conference

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Boston,

Date of event: 08/09/2016

End date: 10/09/2016

Organising entity: International CAA Association

Sofía Fernández-de Retana; Alex Montañaola; José Luis Sanchez; Maialen De-Lacuesta; Joan Montaner; Daniel MasPOCH; Mary Cano; Mar Hernández.

5 Title of the work: Bacteriophage loaded liposomes for controlling Salmonella colonization in broilers

Name of the conference: NANOBIOAPP2015

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 21/09/2015

End date: 23/09/2015

Organising entity: Instituto de Ciencia de los Materiales de Barcelona

Type of entity: State agency

City organizing entity: Barcelona, Spain

Mary Cano Sarabia; Joan Colom; Jennife Otero; Pilar Cortés; Montserrat Llagostera; Daniel MasPOCH.

6 Title of the work: Bacteriophage loaded liposomes for controlling Salmonella colonization in broilers

Name of the conference: Controlled Release Society Annual Meeting and Exposition

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Edimburgo, Eastern Scotland, United Kingdom

Date of event: 25/07/2015

End date: 29/07/2015

Organising entity: CRS

Type of entity: Associations and Groups

City organizing entity: United States of America

Mary Cano Sarabia; Joan Colom; Jennifer Otero; Pilar Cortés; Montserrat Llagostera; Daniel MasPOCH.



- 7** **Title of the work:** Comparison of different nanoliposomes compositions as delivery systems for DNA vaccines in acuaculture
Name of the conference: III International Workshop on Nanomedicine
Type of event: Workshop
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 27/11/2014
End date: 27/11/2014
Organising entity: Institute of biomedicine and biotechnology and UAB
City organizing entity: Barcelona, Spain
Jofre Gasió Tudela; Angels Ruyra; Alicia Martinez Lopez; Mary Cano Sarabia; Daniel Maspoch; Amparo Estepa; Nerea Roher.
- 8** **Title of the work:** Biodistribution and vaccination efficiency of nanosized liposomes loaded with immunostimulants in zebrafish
Name of the conference: Controlled Release Society Annual Meeting and Exposition
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Chicago, United States of America
Date of event: 13/07/2014
End date: 16/07/2014
Organising entity: CRS **Type of entity:** Associations and Groups
City organizing entity: United States of America
Angels Ruyra; Mary Cano Sarabia; Pablo Gracia Valtanen; Daniel Yero; Isidre Gibert; Simon A. Mackenzie; Amparo Estepa; Daniel Maspoch; Nerea Roher.
- 9** **Title of the work:** Encapsulation of insulin peptides in liposomes for preventing type 1 diabetes in NOD mice
Name of the conference: Controlled Release Society Annual Meeting and Exposition
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Chicago, United States of America
Date of event: 13/07/2014
End date: 16/07/2014
Organising entity: CRS **Type of entity:** Associations and Groups
City organizing entity: United States of America
Mary Cano Sarabia; Arnau Secarrant; Irma Pujol Autonell; Rosa M. Ampudia; Alex Sanchez; Manel Puig Domingo; Joan Verdager; Marta Vives Pi; Daniel Maspoch.
- 10** **Title of the work:** Liposomes as Novel Immunostimulant Delivery System in Aquaculture
Name of the conference: 19th International Symposium on Microencapsulation
Type of participation: Participatory - oral communication
City of event: Pamplona, Spain
Date of event: 10/09/2013
Àngels Ruyra Ripoll; Antonia María Cano Sarabia; Simon A. Mckenzie; Nerea Roher Armentia; Daniel Maspoch Comamala.
- 11** **Title of the work:** Toxicity, Uptake and Gene expression studies of liposomes used as vaccine delivery systems in aquaculture
Name of the conference: NanoBioMed - ImagineNano 2013
Type of participation: 'Participatory - poster

City of event: Bilbao, Spain

Date of event: 24/04/2013

Àngels Ruyra Ripoll; Antonia María Cano Sarabia; Simon A. Mckenzie; Nerea Roher Armentia; Daniel Maspoch Comamala.

12 Title of the work: Liposomes as Novel Immunostimulant Delivery System in Aquaculture

Name of the conference: ImagineNano 2013

Type of participation: Participatory - oral communication

City of event: Bilbao, Spain

Date of event: 23/04/2013

Antonia María Cano Sarabia; Àngels Ruyra Ripoll; Simon Mckenzie; Nerea Roher Armentia; Daniel Maspoch Comamala.

13 Title of the work: Massive production of nanoMOFs by spray-drying

Name of the conference: ImagineNano 2013

Type of participation: Participatory - oral communication

City of event: Bilbao, Spain

Date of event: 23/04/2013

Arnau Carné Sánchez; Antonia María Cano Sarabia; Inhar Imaz Gabilondo; Daniel Maspoch Comamala.

14 Title of the work: Trends in Micro- and Nanoencapsulation Research

Name of the conference: First Workshop on Nanomedicine UAB - CEI

Type of event: Workshop

Type of participation: Participatory - invited/keynote talk

City of event: Bellaterra, Spain

Date of event: 2012

Antonia María Cano Sarabia; Daniel Maspoch Comamala.

15 Title of the work: Massive production of nanoMOFs by spray-drying

Name of the conference: 3rd International Conference on Metal-Organic Frameworks and Open Framework Compounds

Type of participation: Participatory - oral communication

City of event: Edinburgh, United Kingdom

Date of event: 2012

Inhar Imaz Gabilondo; Arnau Carné Sánchez; Antonia María Cano Sarabia; Daniel Maspoch Comamala.

16 Title of the work: Use of liposomes as immunostimulant encapsulation agents in aquaculture

Name of the conference: First Workshop on Nanomedicine UAB - CEI

Type of participation: Participatory - poster

City of event: Bellaterra, Spain

Date of event: 2012

Àngels Ruyra Ripoll; Antonia María Cano Sarabia; Simon Mckenzie; Daniel Maspoch Comamala; Nerea Roher Armentia.

17 Title of the work: Use of liposomes as immunostimulant encapsulation agents in aquaculture

Name of the conference: Global Questions on Advance Biology (Institut d'Estudis Catalans)

Type of participation: Participatory - poster

City of event: Barcelona, Spain

Date of event: 2012

Àngels Ruyra Ripoll; Antonia María Cano Sarabia; Simon A. Mckenzie; Daniel Maspoch Comamala; Nerea Roher Armentia.



- 18** **Title of the work:** Integrated printed electronic devices using electrochromic compounds
Name of the conference: International conference on organic electronics
Type of participation: Participatory - oral communication
City of event: Paris, France
Date of event: 2010
Organising entity: Université Paris Diderot – Ecole Polytechnique
Mary Cano-Sarabia; Martin Moller; Nigel Leyland; David Bevk; Christian Grave.
- 19** **Title of the work:** Characterization of different Cholesterol-CTAB assemblies prepared using CO₂-expanded solvents
Name of the conference: Reunión de Expertos en Tecnologías de fluidos comprimidos.
Type of participation: Participatory - poster
City of event: Madrid,
Date of event: 2009
Organising entity: Flucomp
Mary Cano-Sarabia; Angelina Angelova; S. Lesieur; Jaume Veciana; Nora Ventosa.
- 20** **Title of the work:** Preparation and structural characterization of different Cholesterol-CTAB supramolecular assemblies using CO₂-expanded solvents
Name of the conference: 9th International symposium on Supercritical Fluids
Type of participation: Participatory - oral communication
City of event: Arcachon, France
Date of event: 2009
Organising entity: ISSF
Mary Cano-Sarabia; Angelina Angelova; S. Lesieur; Jaume Veciana; Nora Ventosa.
- 21** **Title of the work:** Preparació de vesícules de colesterol uniformes i unilamel·lars mitjançant dissovents expandits amb CO₂
Name of the conference: Cinquena Trobada de Joves Investigadors del PPCC
Type of participation: Participatory - oral communication
City of event: Vic, Spain
Date of event: 2008
Organising entity: Societat Catalana de Química
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Cristina Patiño; Rocio Arranz; Jaume Veciana.
- 22** **Title of the work:** Preparation of uniform unilamellar nanovesicles using CO₂-expanded solvents
Name of the conference: 11th European meeting on Supercritical Fluids
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2008
Organising entity: ISSF
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Cristina Patiño; Rocio Arranz; Jaume Veciana.
- 23** **Title of the work:** Further developments of DELOS process using surfactants
Name of the conference: V International Symposium on high pressure processes technology and chemical engineering
Type of participation: Participatory - poster
City of event: Segovia,
Date of event: 2007
Organising entity: Universidad de Valladolid **Type of entity:** University



Mary Cano-Sarabia; Santiago Sala; Nora Ventosa; Jaume Veciana.

- 24** **Title of the work:** Influence of operational parameters on cholesterol vesicular system prepared by a new CO₂-based method
Name of the conference: Nanotech Northern Europe
Type of participation: 'Participatory - poster
City of event: Helsinki, Finland
Date of event: 2007
Organising entity: NTNE
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Cristina Patiño; Rocio Arranz; Jaume Veciana.
- 25** **Title of the work:** DELOS-SUSP procedure: Preparation of stable aqueous nanodispersions of molecular materials
Name of the conference: 3n NanoSpain Workshop
Type of participation: 'Participatory - poster
City of event: Pamplona,
Date of event: 2006
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Jaume Veciana.
- 26** **Title of the work:** DELOS-SUSP" procedure: preparation of uniform soft molecular materials
Name of the conference: Jornada de química de Catalunya i del gran sud-oest francès
Type of participation: Participatory - oral communication
City of event: Barcelona,
Date of event: 2006
Organising entity: Instituto de Estudios Catalanes
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Cristina Patiño; Rocio Arranz; Jaume Veciana.
- 27** **Title of the work:** Eco-efficient preparation of nanosuspensions from CO₂ expanded solutions by DELOS-SUSP procedure
Name of the conference: Reunión de Expertos en Tecnologías de fluidos comprimidos
Type of participation: 'Participatory - poster
City of event: Valladolid,
Date of event: 2005
Organising entity: FLUCOMP
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Jaume Veciana.
- 28** **Title of the work:** Eco-efficient preparation of nanosuspensions from CO₂ expanded solutions by the new DELOS-SUSP procedure
Name of the conference: 10th European Meeting on Supercritical Fluids -Reactions, Materials and Natural Products Processing
Type of participation: 'Participatory - poster
City of event: Strasbourg/ Colmar,
Date of event: 2005
Organising entity: C.R.E.F
Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Jaume Veciana.
- 29** **Title of the work:** Preparación eco-eficiente de nanosuspensiones mediante el Nuevo procedimiento DELOS-SUSP
Name of the conference: VII Escuela Nacional de Materiales Moleculares
Type of participation: Participatory - oral communication
City of event: Boí Taüll, Catalonia, Spain



Date of event: 2005

Organising entity: Real Sociedad Española de Química

Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Jaime Veciana.

30 Title of the work: Preparation of nanosuspensions of molecular materials from CO₂-expanded solutions

Name of the conference: 2n NanoSpain Workshop

Type of participation: 'Participatory - poster

City of event: Barcelona,

Date of event: 2005

Mary Cano-Sarabia; Nora Ventosa; Santiago Sala; Jaime Veciana.

31 Title of the work: IR spectroscopic study of methenamine solubility enhancement in sub-critical mixtures of CO₂ and ethanol

Name of the conference: Complex Liquids: Fundamental Properties to Industrial Applications

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Sheffield, United Kingdom

Date of event: 2004

Organising entity: EMLG/ JMLG

S Sala; Nora Ventosa; Mary Cano-Sarabia; Jaime Veciana; M. Besnard; Y. Danten; T. Tassaing.

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: OPEN KNOWLEDGE PROGRAM

Type of activity: Jornadas de formación internas

Convening entity: ICN2

City convening entity: Barcelona, Spain

Start-End date: 04/03/2015 - 04/03/2015

Duration: 1 day

Other achievements

Stays in public or private R&D centres

1 Entity: NTERA Limited

City of entity: Dublin, Ireland

Start-End date: 2009 - 2010

Duration: 1 year

Goals of the stay: Post-doctoral

2 Entity: INSTITUTO DE QUIMICA AVANZADA DE CATALUÑA

Type of entity: State agency

City of entity: Barcelona,

Start-End date: 2008 - 2008

Duration: 3 months

Goals of the stay: Doctorate

- 3** **Entity:** Université Paris-Sud UMR CNRS 8612
City of entity: Paris, France
Start-End date: 2008 - 2008 **Duration:** 3 months
Goals of the stay: Doctorate
- 4** **Entity:** University of Bath (UK) **Type of entity:** University
Faculty, institute or centre: Chemical engineering
City of entity: Bath, United Kingdom
Start date: 2003 **Duration:** 3 months
Goals of the stay: Erasmus-Socrates

Obtained grants and scholarships

- 1** **Name of the grant:** CONTRATO POST-DOCTORAL MARIE-CURIE FP7 (UE)
Aims: Post-doctoral
Awarding entity: Unión europea **Type of entity:** Public Research Body
Conferral date: 2009 **Duration:** 1 year
End date: 2010
- 2** **Name of the grant:** BECA CIBER-BNN - ESTANCIA BREVE
Aims: Pre-doctoral
Awarding entity: CIBER BIOINGENIERIA BIOMATERIALES Y NANOMEDICINA (CIBER-BBN)
Conferral date: 2008 **Duration:** 3 months
End date: 2008
- 3** **Name of the grant:** BECA PREDOCTORAL-CONTRATO FPU DEL MINISTERIO DE EDUCACION Y CIENCIA
Aims: Pre-doctoral
Awarding entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency
Conferral date: 2005 **Duration:** 3 years - 8 months
End date: 2008
- 4** **Name of the grant:** BECA PREDOCTORAL I3P DEL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC)
Aims: Pre-doctoral
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Conferral date: 2005 **Duration:** 4 months
End date: 2005
- 5** **Name of the grant:** BECA DEL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC) PARA LA REALIZACIÓN DE TRABAJOS DE I+D con la colaboración de S.E. Carburos Metálicos.
Aims: Pre-doctoral
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Conferral date: 2004 **Duration:** 1 year
End date: 2004



- 6** **Name of the grant:** BECA DE COLABORACIÓN PARA LA INVESTIGACIÓN CON EL GRUPO DE INVESTIGACIÓN DE "AMPLIACIÓN EN LA APLICACIÓN INFORMÁTICA Y DESARROLLO DE NUEVOS PROYECTOS"
Aims: Pre-doctoral
Awarding entity: Universidad de Murcia **Type of entity:** University
Conferral date: 2003 **Duration:** 10 months
End date: 2003
- 7** **Name of the grant:** BECA SOCRATES-ERASMUS
Aims: Formación durante la ingeniería
Awarding entity: Universidad de Murcia **Type of entity:** University
Conferral date: 2002 **Duration:** 3 months
End date: 2003
- 8** **Name of the grant:** BECA MEC
City awarding entity: Murcia, Region of Murcia, Spain
Aims: Educación secundaria
Awarding entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency
Conferral date: 1997 **Duration:** 5 years
End date: 2002

Scientific societies and professional associations

- 1** **Name of the society:** Centro de Investigación Biomédica en Red
Affiliation entity: CIBER BIOINGENIERIA BIOMATERIALES Y NANOMEDICINA (CIBER-BBN)
Start-End date: 2006 - 2009
- 2** **Name of the society:** FLUCOMP NETWORK
Affiliation entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Start-End date: 2004 - 2009
- 3** **Name of the society:** Controlled Release Society
Affiliation entity: Controlled Release Society
City affiliation entity: United States of America
Start date: 2014
- 4** **Name of the society:** Real Sociedad Española de Química
Affiliation entity: Real Sociedad Española de Química **Type of entity:** Estatal
Start date: 2013