



Jesús Miguel Sanz Morales

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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.

My career has been dedicated to the study of the structure-function relationship in proteins with a double aim: the elucidation of the structural basis of their biological role and the application of the results to improve their biotechnological and biomedical potential.

To pursue my goals, I have been PI of 18 competitive research projects (including 1 EU FP7 grant) and participated in 7 patents (2 licensed) and 5 contracts with companies. I also belong to the research networks Conexión Nanomedicina CSIC, Conexión Resistencia Antimicrobianos CSIC, Conexión LifeHub CSIC, NANOCare 2.0 and FAGOMA. Our results were communicated in 69 research articles (more than 75% in JCR Q1 journals), including collaboration with international groups such as the Technical University of Eindhoven (Dr. E.W. Meijer) and the University of Göttingen (Dr. Roland Nau). I was recognised **6 research periods ("sexenios"), plus an additional technological one, as well as 6 merit periods ("quinquenios")**. Currently I am head of the Protein Engineering against Antimicrobial Resistance Laboratory in the CIB (<http://tinyurl.com/cibpneumo>).

My most representative findings in basic protein science can be summarized as follows:

- Pneumococcal choline-binding proteins recognise a variety of choline structural analogs. Their multivalent display on nanoparticles (dendrimers, magnetic nanoparticles) is an effective way to exponentially increase their binding efficiency.
- Demonstration of higher multivalency binding effects of ligands immobilized on benzene tricaboxamide dynamic fibres compared to globular dendrimers.
- First rational design of the accumulation in equilibrium of a kinetic protein folding intermediate.
- An experimental method to measure protein folding constants in denaturing conditions.
- The first reported example of a protein unfolded by submicellar SDS.
- First demonstration of a β -hairpin-to- α transition in peptides induced by micelles.
- The characterization of structural determinants underlying the β -solenoid architecture in choline-binding modules, paving the way for the explanation of their bacterial surface recognition and for the development of novel types of diagnostic devices and non-lytic antimicrobials.
- A system for specific immobilization of proteins on chromatography matrices and graphite electrodes.



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.

Number of research merit 6-year periods (Sexenios CNEAI): 7 (6 research periods + 1 technological period)
Date of last research merit period (Sexenio CNEAI): 2019-2024 (Scientific periods) and 2020 (Technology transfer period)
Number of Ph. D. thesis supervised: 5
Number of Ph. D. thesis currently in progress: 5
Number of cites: 2972 (Google Scholar)
Yearly average of cites in last 5 years (not including current year): 167
Total number of peer-reviewed publications: 70 (more than 75% in Q1 index in Web of Science (JCR))
h-index: 33 (Google Scholar)
Dissemination articles: 2
PI of competitive research projects: 20 (15 national, 1 EU, 4 regional)
PI of industrial contracts: 5
Number of patents: 7 (2 licensed)
Prizes: 1
Supervisor of 6 master advanced research projects
Supervisor of 18 bachelor research projects
Pedagogical projects: 4
Updated: 5 February 2025



Jesús Miguel Sanz Morales

Surname(s): **Sanz Morales**
Name: **Jesús Miguel**
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ResearcherID: **B-2244-2008**
Date of birth: **28/10/1965**
Nationality: **Spain**
Country of birth: **Spain**
Contact province: **Madrid**
Contact address: **Centro de Investigaciones Biológicas Margarita Salas - Consejo Superior de Investigaciones Científicas**
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Rest of contact address: **28040**
Postcode: **Spain**
Contact country: **Madrid, Comunidad de**
Contact aut. region/reg.: **Madrid**
Contact city: **jmsanz@cib.csic.es**
Email: **https://www.researchgate.net/profile/Jesus_Sanz2**
Personal web page:

Current professional situation

- 1** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Centro de Investigaciones Biológicas Margarita Salas
Professional category: Investigador Científico (Scientific Researcher)
Start date: 15/12/2025
- 2** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Centro de Investigaciones Biológicas Margarita Salas
Professional category: Científico Titular (Staff Researcher) **Leadership and management (Y/N):** No
City employing entity: Madrid, Madrid, Comunidad de, Spain
Email: jmsanz@cib.csic.es
Start date: 08/01/2018
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 230101 - Absorption spectroscopy; 230221 - Molecular biology; 230224 - Peptides; 230226 - Physical biochemistry; 230227 - Proteins; 230422 - Stability of macromolecules; 239001 - Design. Synthesis and study new drugs
Secondary (UNESCO code): 230220 - Microbiological chemistry; 230291 - Chemical biological macromolecules; 230414 - Polyesters
Performed tasks: Folding and engineering of proteins with biotechnological and biomedical interest. Structural analysis of protein stability and interaction with substrates and ligands. Immobilization and purification of proteins. Design of antimicrobials. Nanobiotechnology.
Identify key words: Peptides and proteins; Nanostructures; Relation structure-activity; Structural and spectroscopy; Biopolymers; Macromolecular ligand interactions; Spectroscopy of biological systems; Stability and folding/ unfolding of proteins; Molecular mechanism of disease; Structural biology; Molecular design, de novo design

Area of leadership and/or management activity: Public Research Body

- 3** **Employing entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
Professional category: Investigador colaborador (Collaborator Researcher)

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Miguel Hernández de Elche	Catedrático de universidad (Full Professor)	17/11/2016
2	Universidad Miguel Hernández (Elche	Profesor Titular de Universidad (Associate Professor)	10/05/1999
3	Universidad Miguel Hernández (Elche	Profesor Titular Interino de Universidad (Tenured Associate Profesor)	03/10/1997
4	Centro de Investigaciones Biológicas (CSIC)	Contrato de Reincorporación de Doctores y Tecnólogos (MEC)	1996
5	Centro de Investigaciones Biológicas (CSIC)	Beca de Investigación de la Fundación Gregorio Marañón con la donación de Boehringer Ingelheim.	1996
6	Centro de Investigaciones Biológicas (CSIC)	Contrato de Reincorporación de Doctores y Tecnólogos (MEC)	1994
7	Centro de Investigaciones Biológicas (CSIC)	Beca de Investigación de la Fundación Gregorio Marañón con la donación de Boehringer Ingelheim.	1994
8	Interdisciplinary Centre for Protein Engineering/University of Cambridge	Beca postdoctoral EMBO	1992
9	Interdisciplinary Centre for Protein Engineering/University of Cambridge	Contrato postdoctoral del Medical Research Council (Reino Unido) Cambridge	1992
10	Centro de Investigaciones Biológicas (CSIC)	Beca Predoctoral de Formación de Personal Investigador (MEC)	1988
11	Centro de Investigaciones Biológicas (CSIC)	Beca de Introducción a la Investigación	1987

- 1** **Employing entity:** Universidad Miguel Hernández **Type of entity:** University de Elche
Department: Bioquímica y Biología Molecular, Instituto Universitario de Biología Molecular y Celular
City employing entity: Elche, Comunitat Valenciana, Spain
Professional category: Catedrático de universidad (Full Professor)
Start-End date: 17/11/2016 - 07/01/2018 **Duration:** 1 year - 1 month - 21 days
Dedication regime: Full time
- 2** **Employing entity:** Universidad Miguel Hernández **Type of entity:** University (Elche)
Professional category: Profesor Titular de Universidad (Associate Professor)
Start-End date: 10/05/1999 - 16/11/2016 **Duration:** 17 years - 6 months - 6 days



- 3** **Employing entity:** Universidad Miguel Hernández **Type of entity:** University (Elche)
Professional category: Profesor Titular Interino de Universidad (Tenured Associate Profesor)
Start-End date: 03/10/1997 - 09/05/1999 **Duration:** 1 year - 7 months - 6 days
- 4** **Employing entity:** Centro de Investigaciones Biológicas (CSIC) **Type of entity:** State agency
City employing entity: Madrid,
Professional category: Contrato de Reincorporación de Doctores y Tecnólogos (MEC)
Start-End date: 1996 - 1997 **Duration:** 1 year
Type of contract: Temporary employment contract
Applicability in teaching and/or research: Contrato de Reincorporación del Ministerio de Educación y Ciencia
- 5** **Employing entity:** Centro de Investigaciones Biológicas (CSIC) **Type of entity:** State agency
City employing entity: Madrid,
Professional category: Beca de Investigación de la Fundación Gregorio Marañón con la donación de Boehringer Ingelheim.
Start-End date: 1996 - 1996 **Duration:** 2 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Applicability in teaching and/or research: Beca postdoctoral
- 6** **Employing entity:** Centro de Investigaciones Biológicas (CSIC) **Type of entity:** State agency
City employing entity: Madrid,
Professional category: Contrato de Reincorporación de Doctores y Tecnólogos (MEC)
Start-End date: 1994 - 1996 **Duration:** 2 years
Type of contract: Temporary employment contract
Applicability in teaching and/or research: Contrato de reincorporación del Ministerio de Educación y Ciencia
- 7** **Employing entity:** Centro de Investigaciones Biológicas (CSIC) **Type of entity:** State agency
City employing entity: Madrid, Spain
Professional category: Beca de Investigación de la Fundación Gregorio Marañón con la donación de Boehringer Ingelheim.
Start-End date: 1994 - 1994 **Duration:** 2 months
Type of contract: Temporary employment contract
Applicability in teaching and/or research: Beca postdoctoral
- 8** **Employing entity:** Interdisciplinary Centre for Protein Engineering/University of Cambridge
City employing entity: Cambridge, United Kingdom
Professional category: Beca postdoctoral EMBO
Start-End date: 1992 - 1994 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Applicability in teaching and/or research: Beca de larga duración de la European Molecular Biology Organization

9



Employing entity: Interdisciplinary Centre for Protein Engineering/University of Cambridge
City employing entity: Cambridge, United Kingdom
Professional category: Contrato postdoctoral del Medical Research Council (Reino Unido) Cambridge
Start-End date: 1992 - 1992 **Duration:** 5 months
Type of contract: Temporary employment contract
Applicability in teaching and/or research: Contrato postdoctoral del Medical Research Council

- 10** **Employing entity:** Centro de Investigaciones Biológicas (CSIC)
City employing entity: Madrid, Spain
Professional category: Beca Predoctoral de Formación de Personal Investigador (MEC) **Leadership and management (Y/N):** No
Start-End date: 1988 - 1991 **Duration:** 3 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Applicability in teaching and/or research: Beca del Ministerio de Educación y Ciencia. Realización de la Tesis Doctoral
- 11** **Employing entity:** Centro de Investigaciones Biológicas (CSIC) **Type of entity:** State agency
Professional category: Beca de Introducción a la Investigación **Leadership and management (Y/N):** No
Start-End date: 1987 - 1988 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Applicability in teaching and/or research: Beca del CSIC para estudiantes de penúltimo curso de carrera

Summary of professional activity

I am Staff Researcher (Investigador Científico) at the Spanish National Research Council (CSIC), at the Centro de Investigaciones Biológicas Margarita Salas (CIB-CSIC), Spain, where I have been since. My research focuses on protein structure, folding, and engineering, protein immobilization and purification, the design of antimicrobial molecules and nanobiotechnology.

I obtained my B.Sc. in Chemistry from the Universidad Complutense de Madrid (Spain) in 1988, followed by a Ph.D. in Chemistry from the same institution in 1991.

In 1987 I was awarded a Student Research Fellowship at the CIB-CSIC during the final years of my degree. From 1989 to 1991, I conducted my doctoral research at CIB-CSIC under the supervision of Prof. José L. García and Prof. Pedro García, with a Predoctoral Fellowship from the Spanish Ministry of Science.

I held a postdoctoral position 1992 to 1994 at the Cambridge Centre for Protein Engineering (University of Cambridge, UK) with Prof. Sir Alan R. Fersht, with a Medical Research Council contract and an EMBO Long-Term Fellowship. I subsequently returned to Spain and rejoined CIB-CSIC from 1994 to 1997 in Dr. Guillermo Giménez's lab, supported by a Fundación Gregorio Marañón Fellowship and a Postdoctoral Reincorporation Contract from the Spanish Ministry of Science.

Afterwards, I was Associate Professor (Profesor Titular) (1997-2016) and Full Professor (Catedrático) at the Institute for Molecular and Cellular Biology, Miguel Hernández University (UMH, Spain).



Education

University education

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

University degree: Higher degree
Name of qualification: Licenciado en Ciencias Químicas (M.Sc)
City degree awarding entity: Madrid,
Degree awarding entity: Universidad Complutense de Madrid
Date of qualification: 06/1988
Average mark: Excellent

Doctorates

Doctorate programme: Doctorado en Bioquímica y Biología Molecular (Ph.D.)
Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University
City degree awarding entity: Madrid,
Date of degree: 02/10/1991
Thesis title: Estudios estructurales y aplicaciones biotecnológicas de la lisozima del bacteriófago Cp-1 de neumococo
Thesis director: José Luis García López
Thesis co-director: Pedro García González
Obtained qualification: Apto cum laude

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

Training title: Visualization of macromolecular structure with Chimera (Virtual class)
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
End date: 25/11/2021 **Duration in hours:** 24 hours

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

Title of course/seminar: Formación en recursos GOUMH para la docencia en la Facultad de Ciencias Experimentales
Goals of the course/seminar: Aprendizaje de nuevas tecnologías de información para la actividad docente
Organising entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Experimentales
Duration in hours: 5 hours



Start-End date: 05/12/2013 - 05/12/2013

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: M1A: Research Topics
University degree: Master in Integrative Synthetic Biology
Start date: 2018 **End date:** 2024
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1
Entity: Centro de Investigaciones Biológicas **Type of entity:** State agency
- 2 Type of teaching:** Official teaching
Name of the course: M1A: Research Topics
University degree: Master in Molecular and Cellular Integrative Biology
Start date: 2018 **End date:** 2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1
Entity: Centro de Investigaciones Biológicas **Type of entity:** State agency
- 3 Type of teaching:** Official teaching
Name of the course: Ingeniería de Proteínas
Type of programme: Doctorate
University degree: Doctorate program in Molecular and Cellular Biology
Start date: 2010 **End date:** 2013
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 4,5
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
- 4 Type of teaching:** Official teaching
Name of the course: Bioquímica y Microbiología Industriales
Type of programme: Bachelor's degree
Type of subject: Core
University degree: Degree in Biochemistry
Start date: 1998 **End date:** 2012
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3,5
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University



- 5** **Name of the course:** Laboratorio Integrado de Experimentación Bioquímica II
Type of subject: Core
University degree: Degree in Biochemistry
Start date: 1998 **End date:** 2012
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 2
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
- 6** **Type of teaching:** Official teaching
Name of the course: Estructura de Macromoléculas
Type of programme: Bachelor's degree
Type of subject: Core
University degree: Degree in Biochemistry
Start date: 1997 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6,5
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
- 7** **Name of the course:** Laboratorio Integrado de Experimentación Bioquímica I
University degree: Degree in Biochemistry
Start date: 1997 **End date:** 2011
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
- 8** **Type of teaching:** Official teaching
Name of the course: Estudio conformacional de proteínas y ácidos nucleicos
Type of programme: Doctorate
University degree: Doctorate program in Molecular and Cellular Biology
Start date: 2007 **End date:** 2007
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 5
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
- 9** **Type of teaching:** Official teaching
Name of the course: Caracterización Biofísica de Macromoléculas
Type of programme: Doctorate
University degree: Doctorate program in Molecular and Cellular Biology
Start date: 2005 **End date:** 2005
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 5
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
- 10** **Name of the course:** Nanobiotecnología
University degree: Master in Biotechnology and Bioengineering
Course given: En la actualidad
Start date: 2014
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Faculty, institute or centre: Instituto Universitario de Biología Molecular y Celular
- 11** **Type of teaching:** Official teaching
Name of the course: Ingeniería Bioquímica
Type of programme: Grado



University degree: Degree in Biotechnology

Course given: En la actualidad

Start date: 2012

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: Universidad Miguel Hernández de Elche

Type of entity: University

Mark obtained: Profesor Mejor Orador del Grado en Biotecnología elegido por el alumnado en votación (curso 2016/17)

12 Type of teaching: Official teaching

Name of the course: Estructura y Función de Proteínas

Type of programme: Grado

University degree: Degree in Biotechnology

Course given: En la actualidad

Start date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: Universidad Miguel Hernández de Elche

Type of entity: University

Experience supervising doctoral thesis and/or final year projects

1 Project title: Estudios moleculares sobre el proceso de autólisis en *Streptococcus pneumoniae*

Type of project: Master's Thesis

Co-director of thesis: Maestro, B.; Sanz, J.M.

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: de Obesso-Cintas, P.

Date of reading: 2024

2 Project title: Biomedical and biotechnological applications of choline-binding modules

Type of project: End of course project

Co-director of thesis: Maestro, B.

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Raquel García Álvarez

Date of reading: 2023

3 Project title: Engineering of cell wall lytic enzymes from *Streptococcus pneumoniae*

Type of project: End of course project

Entity: Universidad Europea de Madrid

Type of entity: University

Student: Patricia de Obesso Cintas

Date of reading: 2023

4 Project title: Novel techniques of enzyme immobilization for construction of bioreactors

Type of project: End of course project

Co-director of thesis: Maestro, B.

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Teresa Espinosa González

Date of reading: 2023



- 5** **Project title:** Engineering of the choline-binding modules of *Streptococcus pneumoniae* as potential antimicrobials
Type of project: End of course project
Co-director of thesis: Sanz, J.M.; Maestro, B.
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Miguel Saturio Hornillos
Date of reading: 2022
- 6** **Project title:** Ingeniería de proteínas y nanobiotecnología frente al patógeno respiratorio *Streptococcus pneumoniae*
Type of project: End of course project
Co-director of thesis: Sanz, J.M.; Maestro, B.
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: Weronika Kinga Zarychta Drabik
Date of reading: 2022
- 7** **Project title:** Utilización combinada de enzibióticos y compuestos orgánicos para combatir patógenos Gram negativos
Type of project: End of course project
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Antonio Jesús García Cívico
Obtained qualification: 8.4
Date of reading: 2022
- 8** **Project title:** Ensayo de péptidos dirigidos a la superficie de *Streptococcus pneumoniae* como nuevos antimicrobianos
Type of project: End of Master project
Entity: Universidad de Alcalá **Type of entity:** University
Student: Paula Antón Sánchez
Date of reading: 2021
- 9** **Project title:** Nanobiomateriales funcionalizados con antimicrobianos frente a *Streptococcus pneumoniae*
Type of project: End of Master project
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Sergio Cibantos Casamayón
Date of reading: 2021
- 10** **Project title:** Estudio estructural y aplicaciones biomédicas de los módulos de unión a colina: Antimicrobianos frente a *Streptococcus pneumoniae*
Type of project: Doctoral thesis
Co-director of thesis: Maestro, B.
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City of entity: Elche,
Student: Roig-Molina, E.
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 28/02/2020
- 11** **Project title:** Añadiendo valor a los biopolímeros naturales: nuevos derivados de polihidroxialcanoatos funcionalizados con proteínas
Type of project: End of course project
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Sergio Cibantos Casamayón



Date of reading: 2020

- 12** **Project title:** Combinaciones de módulos de unión a colina y ésteres de aminas bicíclicas para el diseño de nuevas formulaciones antimicrobianas frente a *Streptococcus pneumoniae*
Type of project: End of course project
Co-director of thesis: Beatriz Maestro García-Donas
Entity: Universidad de Alcalá **Type of entity:** University
Student: Raquel Catalina Porres
Date of reading: 2020
- 13** **Project title:** El reposicionamiento de fármacos como estrategia terapéutica frente a *Streptococcus pneumoniae*
Type of project: End of Master project
Entity: Universidad de Alcalá **Type of entity:** University
Student: Laura Ortiz Miravalles
Date of reading: 2020
- 14** **Project title:** La superficie de *Streptococcus pneumoniae* como diana de nuevos antimicrobianos
Type of project: End of course project
Co-director of thesis: Beatriz Maestro García-Donas
Entity: Universidad de Alcalá **Type of entity:** University
Student: Laura Ortiz Miravalles
Date of reading: 2019
- 15** **Project title:** Caracterización de la estructura y el plegamiento de módulos de unión a colina de *Streptococcus pneumoniae*
Type of project: Trabajo fin de grado
Co-director of thesis: Emma Roig Molina
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Adrián Román Sarmiento
Date of reading: 2017
- 16** **Project title:** Determinación de la capacidad antimicrobiana frente a *Streptococcus pneumoniae* del módulo BioF
Type of project: Trabajo fin de grado
Co-director of thesis: Beatriz Maestro García-Donas
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Daniel Esteve Moreno
Date of reading: 2017
- 17** **Project title:** Caracterización funcional de mutantes patogénicos de la IMP deshidrogenasa
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Eva María Soriano Jerez
Date of reading: 2016
- 18** **Project title:** Construcción y optimización de soportes bioactivos sostenibles para la degradación de colorantes
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: María Dolores Sarmiento Ferrández
Date of reading: 2016



- 19** **Project title:** Proteínas de la superficie de *Streptococcus pneumoniae*: diseño de nuevas moléculas inactivantes y ensayo como antimicrobianos
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Lorena Albaladejo Tasso
Date of reading: 2016
- 20** **Project title:** Caracterización de la estructura y el plegamiento de derivados del módulo de unión a colina C-LytA
Type of project: Trabajo fin de máster
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Marina Bernabéu Cantó
Date of reading: 2016
- 21** **Project title:** Caracterización del módulo de unión a colina C-CbpD y de péptidos derivados de LytA mediante técnicas espectroscópicas
Type of project: Trabajo fin de máster
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Víctor Marín Delgado
Date of reading: 2016
- 22** **Project title:** Caracterización de la estabilidad del módulo C-CbpD y su afinidad por colina mediante técnicas espectroscópicas
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Víctor Marín Delgado
Date of reading: 2015
- 23** **Project title:** Caracterización de la estructura y el plegamiento de módulo de unión a colina C-CbpF de *Streptococcus pneumoniae*
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Marina Bernabeu Cantó
Date of reading: 2015
- 24** **Project title:** Construcción de soportes bioactivos sostenibles para la degradación de colorantes
Type of project: Trabajo fin de máster
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Emma Roig Molina
Date of reading: 2015
- 25** **Project title:** Caracterización de la estabilidad del módulo C-CPL1 y su afinidad por colina mediante técnicas espectroscópicas
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Francisco Garcia Asencio
Date of reading: 2014
- 26** **Project title:** Construcción de soportes bioactivos sostenibles para la degradación de colorantes
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Emma Roig Molina



Date of reading: 2014

- 27** **Project title:** Iniciación a la inmovilización de proteínas y su utilización como terapia enzimática en cáncer. Realización de pruebas de concepto en líneas celulares de diferentes tipos de tumores.
Type of project: Trabajo fin de grado
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Maria Fuentes Baile
Date of reading: 2014
- 28** **Project title:** Desarrollo de sistemas para la inmovilización de proteínas y sus aplicaciones biotecnológicas.
Type of project: Doctoral thesis
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Daniel Bello Gil
Obtained qualification: Apto "Cum Laude"
Date of reading: 21/06/2013
- 29** **Project title:** Desarrollo de nuevos sistemas de inmovilización específica de proteínas en soportes sólidos.
Type of project: Work leading to an ASD
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City of entity: Elche,
Student: Daniel Bello Gil
Date of reading: 25/01/2012
- 30** **Project title:** Estudio estructural y funcional de proteínas de interés biotecnológico. Aplicaciones y optimización.
Type of project: Doctoral thesis
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City of entity: Elche,
Student: Víctor Manuel Hernández Rocamora
Obtained qualification: Sobresaliente "cum laude"
Date of reading: 27/03/2009
- 31** **Project title:** Caracterización estructural y funcional del regulador StyR de la ruta de biodegradación de estireno en Pseudomonas sp. Y2.
Type of project: Doctoral thesis
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City of entity: Elche,
Student: María José Rodas Martínez
Obtained qualification: Sobresaliente "cum laude"
Date of reading: 08/06/2007
- 32** **Project title:** Estudio de los determinantes del rango de huésped de pPS10, un plásmido de Pseudomonas
Type of project: Doctoral thesis
Co-director of thesis: María Elena Fernández Tresguerres
Entity: Universidad Complutense de Madrid **Type of entity:** University
City of entity: Madrid,
Student: Beatriz Maestro García-Donas
Obtained qualification: Sobresaliente "cum laude"
Date of reading: 05/02/2001

Materials and other teaching or educational publications.

- 1** Sánchez-Angulo, M.; Sanz, J. M.. Proyectos docentes INNOVA de innovación y la mejora en la docencia y la investigación entre el profesorado de la UMH.,
Name of the materials: Impresión en 3D de modelos de estructuras biológicas para Docencia en Biología y Biotecnología con proyección para la docencia de personas invidentes
Date of drafting: 2016
Format: Proyecto docente
Description Narrative: Financiación de 500 euros
- 2** Sánchez-Angulo, M.; Sanz, J. M.. Proyectos docentes INNOVA de innovación y la mejora en la docencia y la investigación entre el profesorado de la UMH.,
Name of the materials: Impresión en 3D de modelos de estructuras biológicas para Docencia en Biología y Biotecnología
Date of drafting: 2015
Format: Proyecto docente
Description Narrative: Financiación de 900 euros
- 3** Jesús Miguel Sanz Morales; Otros. BioROM. Ayudas al aprendizaje de bioquímica, biotecnología y biología molecular, Available on-line at: <<http://www.biorom.uma.es/indices/index.html>>.
Legal deposit: MA-2361-2009
Name of the materials: Soporte informático para el aprendizaje de bioquímica, biotecnología y biología molecular
Date of drafting: 2009
Format: Research software
- 4** Villalaín, J.; Sanz, J.M.. Universidad Miguel Hernandez de Elche,
Name of the materials: Creación de un aula virtual para asignaturas de la licenciatura en Bioquímica
Date of drafting: 2002
Format: Research software
Description Narrative: Puesta a punto y ensayo de una asignatura virtual, complementaria al aula teórico-práctica, mediante implantación de tecnología inalámbrica, y destinada a la enseñanza de contenidos relacionados con la bioquímica y biotecnología.
Corresponding author: No

Participation in conferences with talks focused on teacher training

- 1** **Name of the event:** III Reunión de Docencia y Difusión de la Microbiología
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Bilbao, País Vasco, Spain
Organising entity: SOCIEDAD ESPAÑOLA DE MICROBIOLOGIA
Impresión en 3D de modelos de estructuras biológicas para Docencia en Biología y Biotecnología con proyección para la docencia de personas invidentes.
- 2** **Name of the event:** 6th Festival of Nanoscience and Nanotechnology - Nanotechnology reaches high school.
Type of event: Seminar
Aims of the event: Divulcation - IES San Fernando, Madrid
City of event: Madrid, Spain
Date of presentation: 05/04/2022



Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency

Nanotechnology: the huge world of the small..

3 Name of the event: I Jornadas de Innovación Colaborativa JIC2017-UMH

Type of event: Training Session

City of event: Elche,

Date of presentation: 20/06/2017

Organising entity: Universidad Miguel Hernández de Elche
Type of entity: University

Impresión 3D y docencia en Biología, Bioquímica y Biotecnología. Proyección para la docencia de personas con discapacidad visual..

Healthcare experience

Other activities/achievements not included above

- 1 Other relevant activities:** Reconocimiento de 6 periodos de actividad docente (Quinquenios).
End date: 2023
- 2 Other relevant activities:** Coordinador científico - Master in Cellular and Integrative Biology (MciB)
Entity where project took place: Centro de Investigaciones Biológicas - Universidad Internacional Menéndez Pelayo
End date: 2020
- 3 Other relevant activities:** Vocal de la Comisión de Acreditación de Ciencias Experimentales de la Agencia de Evaluación del Sistema Universitario Vasco (2015-actualidad)
Entity where project took place: UNIBASQ
End date: 2019
Start date: 2015
- 4 Other relevant activities:** Vocal de la Comisión de Acreditación para Ciencias de la Salud de la Agencia Nacional de Evaluación de la Calidad y la Acreditación (ANECA) (Programa Academia) (2011-2014)
End date: 28/02/2014
- 5 Other relevant activities:** Colaborador de la comisión redactora de la solicitud del Grado en Biotecnología por la Universidad Miguel Hernández (2008).
End date: 2008
- 6 Other relevant activities:** Miembro de la comisión redactora del III Plan Estratégico para la Calidad de la Universidad Miguel Hernández (2006).
End date: 2006
- 7 Other relevant activities:** Miembro de la comisión redactora del Reglamento de la Facultad de Ciencias Experimentales de la Universidad Miguel Hernández (1999)
End date: 1999
- 8 Other relevant activities:** Colaborador científico del área de Biotecnología
Entity where project took place: Agencia Estatal de Investigación (AEI)
Start date: 01/01/2019



- 9 Other relevant activities:** Vocal de la Comisión de Acreditación de Titulaciones del Gobierno Vasco (UNIBASQ)
Start date: 11/04/2018
- 10 Other relevant activities:** Vocal de la Comisión de Complementos Retributivos de la Agencia de Evaluación del Sistema Universitario Vasco (2015-actualidad)
Entity where project took place: UNIBASQ
Start date: 2015
- 11 Other relevant activities:** Evaluador de la Agencia Nacional de Evaluación de la Calidad y la Acreditación (ANECA) (Programa Academia) (2009-2011, 2015-actualidad)
- 12 Other relevant activities:** Evaluador de la Universidad del País Vasco (UPV) para la convocatoria de Ayudas para la recualificación del sistema universitario español

Scientific and technological experience

Scientific or technological activities

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

- 1 Name of the project:** Beta-beta-solenoid polypeptides: a new biotechnological tool for the molecular recognition of polymeric substrates (BETASOL)
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: Spanish National Research Council (CSIC)
City of entity: Madrid,
Name principal investigator (PI, Co-PI....): Sanz, J.M.
Nº of researchers: 4
Funding entity or bodies:
Agencia Estatal de Investigación
City funding entity: Spain
Code according to the funding entity: PID2022-139209OB-C21
Start-End date: 01/09/2023 - 31/08/2026 **Duration:** 3 years
Total amount: 150.000 € **Sub-project amount:** 150.000 €
Applicant's contribution: Coordinator
- 2 Name of the project:** Spanish Nanomedicine Network for the Diagnosis and Treatment of Diseases with Large Social Impact (NANOCARE 2.0)
Entity where project took place: Spanish National Research Council (CSIC)
Name principal investigator (PI, Co-PI....): Sánchez Martín
Nº of researchers: 15
Funding entity or bodies:
Agencia Estatal de Investigación
Code according to the funding entity: RED2022-134560-T
Start-End date: 2023 - 2025



Total amount: 15.000 €

- 3** **Name of the project:** Valuing the aqueous phase of hydrothermal liquefaction
Entity where project took place: Spanish National Research Council (CSIC)
City of entity: Madrid,
Name principal investigator (PI, Co-PI....): Garcia, J.L.; Sanz, J.M.
N° of researchers: 2
Funding entity or bodies:
Agencia Estatal de Investigacion
City funding entity: Spain
Code according to the funding entity: TED2021-129747B-C22
Start-End date: 01/01/2023 - 31/12/2024
Total amount: 187.680 €
- 4** **Name of the project:** Ultrastructure and biotechnological scope of choline-binding modules: a synthetic biology approach
Entity where project took place: Spanish National Research Council (CSIC) **Type of entity:** Public Research Body
Name principal investigator (PI, Co-PI....): Sanz, J.M.
N° of researchers: 2
Type of participation: Principal investigator
Code according to the funding entity: PID2019-105126RB-I00
Start-End date: 01/06/2020 - 31/05/2023 **Duration:** 3 years
Participating entity/entities: Ministerio de Ciencia e Innovación
Total amount: 145.000 €
- 5** **Name of the project:** Remodeling of Streptococcus pneumoniae cell wall: structural studies of the StkP and LytA proteins as targets for the development of novel antimicrobials.(Ref BIO2016-79323-R)
Entity where project took place: Centro de Investigaciones Biologicas CSIC (Madrid) and University Miguel Hernandez (Elche), Spain
Name principal investigator (PI, Co-PI....): Sanz, J.M.
N° of researchers: 2
Funding entity or bodies:
Ministerio de Economía y Competitividad
Code according to the funding entity: BIO2016-79323-R
Start-End date: 01/01/2017 - 29/12/2020
Total amount: 181.500 €
- 6** **Name of the project:** Estructura de proteínas de la superficie de Streptococcus pneumoniae: diseño de nuevas moléculas inactivantes y ensayo como antimicrobianos
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University
City of entity: Elche, Comunitat Valenciana, Spain
Name principal investigator (PI, Co-PI....): Sanz, J.M.
N° of researchers: 2
Funding entity or bodies:
Ministerio de Economía y Competitividad (MINECO), Ref. BIO2013-47684-R



Start-End date: 01/01/2014 - 31/12/2016

Duration: 3 years

Total amount: 205.700 €

7 Name of the project: Desarrollo de nuevas aplicaciones de los módulos de unión a colina para la purificación e inmovilización de proteínas (Ref: BFU2010-17824).

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Estatal

City funding entity: Madrid, Madrid, Comunidad de, Spain

Start-End date: 01/01/2011 - 31/07/2014

Participating entity/entities: Universidad Miguel Hernández

Total amount: 121.000 €

8 Name of the project: Plataforma de investigación en piel - SKIN RESEARCH PLATFORM (SRP) (ISIC/2012/009)

Entity where project took place: Instituto
Universitario de Biología Molecular y Celular

Type of entity: University Research Institute

Name principal investigator (PI, Co-PI....): Ferrer-Montiel, A.

Nº of researchers: 20

Funding entity or bodies:

Generalitat Valenciana

Type of entity: Conselleria de Educacion

City funding entity: Valencia, Comunitat Valenciana, Spain

Start-End date: 01/01/2012 - 31/12/2013

Total amount: 50.700 €

9 Name of the project: Combating Antibiotics Resistant Pneumococci by Novel Strategies Based on in vivo and in vitro Host – Pathogen Interactions (CAREPNEUMO) (Project HEALTH-F3-2009-223111)

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): G.S. Chhatwal (coordinador)

Nº of researchers: 2

Funding entity or bodies:

Comisión Europea

Type of entity: FP7

City funding entity: Madrid, Madrid, Comunidad de, Spain

Start-End date: 2009 - 2012

Participating entity/entities: Universidad Miguel Hernández y 14 entidades más.

Total amount: 222.000 €

10 Name of the project: Ayudas para la contratación de personal de apoyo en organismos de investigación de la Comunidad Valenciana

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 1

Funding entity or bodies:

Generalitat Valenciana

Type of entity: Autonómico

City funding entity: Valencia, Comunitat Valenciana, Spain



Start-End date: 2010 - 2010

Participating entity/entities: Universidad Miguel Hernández

Total amount: 9.300 €

- 11 Name of the project:** Aproximación molecular al empleo de polihidroxicanoatos como soportes para la inmovilización de proteínas recombinantes y como fuente de ácidos hidroxicanoicos quirales (Proyecto coordinado, subproyecto nº 2) (Ref: BIO2007-67304-C02-02).

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz (Del subproyecto de la UMH)

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Educación y Ciencia

Start-End date: 2007 - 2010

Participating entity/entities: Universidad Miguel Hernández

Total amount: 151.250 €

- 12 Name of the project:** V Premio Laboratorios SALVAT al Mejor Proyecto de Investigación en Ciencias Biomédicas.

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 2

Funding entity or bodies:

Fundación SALVAT Inquifarma

Type of entity: Foundation

Start-End date: 2006 - 2008

Participating entity/entities: Universidad Miguel Hernández

Total amount: 30.000 €

- 13 Name of the project:** Estructura e ingeniería de proteínas pertenecientes al catabolón del fenilacetil-CoA y rutas relacionadas (Proyecto coordinado, subproyecto nº 4) (Ref: BIO2003-05309-C04-04)

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz (Del subproyecto de la UMH)

Nº of researchers: 2

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Start-End date: 2004 - 2007

Participating entity/entities: Instituto de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 123.550 €

- 14 Name of the project:** Plataforma para la automatización y escalado eficiente de la producción de proteínas recombinantes (PROFIT CIT-010000-2005-32)

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz (Del subproyecto de la UMH)

Nº of researchers: 1

Funding entity or bodies:

Ministerio de Educación y Ciencia

Start-End date: 2005 - 2006



Participating entity/entities: Biomedal; Molecular Biology Laboratory; Universidad Miguel Hernández y Universidad Pablo de Olavide.; Universidad de Sevilla

Total amount: 32.400 €

15 Name of the project: Diseño de Inhibidores de las hidrolasas de la pared celular de neumococo. Aplicación al tratamiento de la neumonía, meningitis y otitis infantiles (Ref 95/2005)

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 1

Funding entity or bodies:

Generalitat Valenciana. Escuela Valenciana de Estudios para la Salud

Start-End date: 2005 - 2005

Participating entity/entities: Instituto de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 3.700 €

16 Name of the project: Grupo de caracterización estructural y termodinámica de interacciones macromoleculares implicadas en procesos de relevancia biológica (Ref: GRUPOS03/056)

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): José Manuel González Ros

Nº of researchers: 7

Funding entity or bodies:

Generalidad Valenciana

Start-End date: 2003 - 2005

Participating entity/entities: Instituto de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 80.952 €

17 Name of the project: Construcción de nuevos sistemas de inmovilización y purificación de proteínas en soportes sencillos. Ensayo y aplicación a la purificación de proteínas de interés industrial y biotecnológico. (Ref: BIO2000-0009-P4-04)

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 5

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Start-End date: 2001 - 2005

Participating entity/entities: BioTools, S.L. y BioMedal, S.A.; Centro de Biología Molecular y Celular. Universidad Miguel Hernández; Centro de Investigaciones Biológicas, CSIC, Madrid

Total amount: 60.100 €

18 Name of the project: Ingeniería de la expresión coordinada de múltiples genes y uso para la producción y purificación de moléculas de interés industrial. (PROFIT FIT-010000-2003-110)

Entity where project took place: Universidad Miguel **Type of entity:** University
Hernández de Elche

Name principal investigator (PI, Co-PI....): Jesús M. Sanz (Del subproyecto de la UMH)

Nº of researchers: 1

Funding entity or bodies:

Ministerio de Ciencia y Tecnología



Start-End date: 2003 - 2004

Participating entity/entities: BIOMEDAL S.L.; Consejo Superior de Investigaciones Científicas; Universidad Miguel Hernández.; Universidad Pablo de Olavide; Universidad de Sevilla

Total amount: 24.250 €

19 Name of the project: Estudio bioquímico y genético de las principales rutas que integran el catabolón del fenilacetil coenzima A (Subproyecto nº 4) (Ref: BMC2000-0125-C04-04)

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz (Del subproyecto de la UMH)

Nº of researchers: 1

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Start-End date: 2001 - 2003

Participating entity/entities: Centro de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 48.080 €

20 Name of the project: Diseño de ligandos inhibidores de la acción de las hidrolasas de la pared celular de *Streptococcus pneumoniae*. (Ref: BM-018/2002)

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 1

Funding entity or bodies:

Generalitat Valenciana. Escuela Valenciana de Estudios para la Salud.

Start-End date: 2002 - 2002

Participating entity/entities: Instituto de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 5.771 €

21 Name of the project: Caracterización Estructural y Funcional de Proteínas de Relevancia Médica y Biotecnológica. Aplicación a la Reductasa HpaC de *Escherichia coli* W y al Factor de Terminación de la Transcripción del DNA Mitocondrial Humano. (Ref: GV98-05-43)

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 3

Funding entity or bodies:

Generalitat Valenciana. Consellería de Cultura

Start-End date: 1999 - 2001

Participating entity/entities: Centro de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 26.565 €

22 Name of the project: Desarrollo de nuevas generaciones de agentes terapéuticos contra neurodegeneración: bloqueadores de canal abierto (n 98/027-00)

Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University

Name principal investigator (PI, Co-PI....): Antonio Ferrer Montiel

Funding entity or bodies:

Fundación la Caixa

Start-End date: 1999 - 2001



Participating entity/entities: Centro de Biología Molecular y Celular. Universidad Miguel Hernández
Total amount: 81.738 €

23 Name of the project: Desarrollo de nuevos analgésicos mediante cribado de quimiotecas combinatorias sintéticas y naturales.(Ref 1FD97-0662-C02-01)

Entity where project took place: Universidad Miguel Hernández de Elche
Type of entity: University

Name principal investigator (PI, Co-PI....): Antonio Ferrer Montiel

Funding entity or bodies:

CICYT-FEDER

Start-End date: 1999 - 2001

Participating entity/entities: Centro de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 196.771 €

24 Name of the project: Estructura y Función de proteínas de interés clínico y biotecnológico. (Ref: GR00-84)

Entity where project took place: Universidad Miguel Hernández de Elche
Type of entity: University

Name principal investigator (PI, Co-PI....): Jesús M. Sanz

Nº of researchers: 8

Funding entity or bodies:

Generalitat Valenciana. Consellería de Cultura

Start-End date: 2000 - 2000

Participating entity/entities: Centro de Biología Molecular y Celular. Universidad Miguel Hernández

Total amount: 12.020 €

25 Name of the project: Spanish Network of Bacteriophages and Transducer Elements (FAGOMA)

Entity where project took place: Spanish National Research Council

Name principal investigator (PI, Co-PI....): García, P.

Code according to the funding entity: RED2022-134837-T

Start date: 2023

26 Name of the project: Targeting the pneumococcal surface to combat antimicrobial resistance. A combined strategy.

Entity where project took place: Centro de Investigaciones Biológicas - CSIC

Type of entity: State agency

City of entity: Madrid,

Name principal investigator (PI, Co-PI....): Sanz, J.M.

Nº of researchers: 4

Funding entity or bodies:

Fundación Kaertor

Start date: 2018

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

- 1** **Name of the project:** Remodelacion de la pared celular de Streptococcus pneumoniae: estudios estructurales de las proteínas StkP y LytA como objetivo para el desarrollo de nuevos antimicrobianos (Ref. 201820I132)
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Sanz, J.M.
Nº of researchers: 1
Funding entity or bodies:
Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
City funding entity: Madrid, Madrid, Comunidad de, Spain
Start date: 22/11/2018 **Duration:** 1 year
Total amount: 5.000 €
- 2** **Name of the project:** LIPOENZYM II - Aplicación de la biotecnología en la mejora mwedioambiental de los procesos de tintura textil
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Sanz, J.M.
Nº of researchers: 1
Participating entity/entities: Universidad Miguel Hernández de Elche
Funding entity or bodies:
AITEK - Instituto Tecnológico Textil **Type of entity:** Technological Centre
City funding entity: Alcoy, Comunitat Valenciana, Spain
Start date: 21/06/2016 **Duration:** 6 months
Total amount: 15.528,71 €
- 3** **Name of the project:** LIPOENZYM - Linea de i+d basada en el estudio de aplicación de la biotecnología en la mejora medioambiental de los procesos de tintura textil
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Sanz, J.M.
Nº of researchers: 1
Participating entity/entities: Universidad Miguel Hernández de Elche
Funding entity or bodies:
AITEK - Instituto Tecnológico Textil **Type of entity:** Technological Centre
City funding entity: Alcoy, Comunitat Valenciana, Spain
Code according to the funding entity: Convenio 86/15
Start date: 15/09/2015 **Duration:** 3 months - 15 days
Total amount: 33.548 €
- 4** **Name of the project:** DECOENZYM – Investigación de la degradación de colorantes residuales mediante la aplicación de la tecnología enzimática
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Sanz, J.M.
Nº of researchers: 1
Participating entity/entities: Universidad Miguel Hernández de Elche
Funding entity or bodies:
AITEK - Instituto Tecnológico Textil **Type of entity:** Technological Centre
City funding entity: Alcoy, Comunitat Valenciana, Spain



Code according to the funding entity: Convenio 125/14

Start date: 17/10/2014

Duration: 3 months

Total amount: 25.391 €

5 Name of the project: Asesoramiento para la purificación y caracterización del factor humano de crecimiento de osteocitos BMP-7 y otras proteínas de la familia de TGFbeta a partir de plantas de Nicotiana sp.

Degree of contribution: Contrato de asesoramiento

Name principal investigator (PI, Co-PI....): Jesús M Sanz

Nº of researchers: 1

Participating entity/entities: Instituto Universitario de Biología Molecular y Celular; Universidad Miguel Hernández

Funding entity or bodies:

Agrenvec S.L.

Start date: 2008

Total amount: 1.600 €

6 Name of the project: Establecimiento, en el CBMC de la UMH, de una unidad de I+D y transferencia de tecnología mixta entre la UMH y las empresas.

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): González-Ros, J.M.

Participating entity/entities: DiverDrugs, SL; Lipotec, S.A.; Universidad Miguel Hernández de Elche

Funding entity or bodies:

DiverDrugs, SL

Type of entity: Business

City funding entity: Gavà, Cataluña, Spain

Lipotec, S.A.

Type of entity: Business

City funding entity: Spain

Code according to the funding entity: Lipotec-Diverdrugs 1.03D

Start date: 02/07/2003

Duration: 2 years

Total amount: 0 €

7 Name of the project: Regular la aportación a la UMH, por parte de las empresas, de los recursos económicos necesarios para dotar de medios humanos adicionales al proyecto "Construcción de nuevos sistemas de inmovilización y purificación de proteínas en soportes sencillos"

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

Name principal investigator (PI, Co-PI....): Sanz, J.M.

Nº of researchers: 1

Participating entity/entities: BIOMEDAL, S.L.; Biotools, B & M Labs, S.A.; Universidad Miguel Hernández de Elche

Funding entity or bodies:

BIOMEDAL, S.L.

City funding entity: Spain

Code according to the funding entity: BIOTMED 1.02X

Start date: 15/01/2002

Duration: 1 year

Total amount: 9.015,18 €

8 Name of the project: Convenio de colaboración para el establecimiento de una unidad de I+D y transferencia de tecnología mixta entre la UMH y la empresa

Name principal investigator (PI, Co-PI....): González-Ros, J.M.

Funding entity or bodies:



FMC Foodtech S.L.

Code according to the funding entity: FMCF1.01X

Start date: 30/07/2001

Duration: 10 years

Total amount: 0 €

9 Name of the project: Acuerdo específico de asesoramiento y transferencia de know-how

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): González-Ros, J.M.

Funding entity or bodies:

CENTRO DE ACUSTICA APLICADA Y
EVALUACION NO DESTRUCTIVA

Type of entity: Associations and Groups

Ilice Biotech S.L.

Code according to the funding entity: Ilice Biotech S.L.

Start date: 21/03/2001

Duration: 2 years

Total amount: 0 €

Results

Industrial and intellectual property

1 Title registered industrial property: Functionalized hydrophobic supports and methods of use and preparation thereof.

Inventors/authors/obtainers: Sanz, J.M.; Torices, M.I.; Maestro, B.

Entity holder of rights: Consejo Superior de Investigaciones Científicas

N° of application: P202530410

Country of inscription: Spain

Date of register: 19/05/2025

2 Title registered industrial property: Peptides with antimicrobial activity and their uses

Inventors/authors/obtainers: Sanz, J.M.; Maestro, B.; Ortiz, L.; Antón, P.; Prieto, M.A.

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Reference/registry code: PCT/ES2022/070372

Country of inscription: Spain

Date of register: 16/06/2021

N° of patent: ES2931001A1

PCT patent: Yes

Operating aut.region/region: Spain

3 Title registered industrial property: Antimicrobials against Streptococcus pathogens

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Sanz, J.M.; Maestro, B.; Ortiz-Miravalles, L.

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Country of inscription: Spain

Date of register: 28/01/2021

N° of patent: ES2920173

Spanish patent: Yes

PCT patent: Yes

Operating aut.region/region: Spain



Relevant results: PCT/ES2022/070042

- 4 Title registered industrial property:** Use of a compound with formula (I) as bactericidal against Streptococcus
Description of qualities: Aprobado informe del estado de la técnica
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Retamosa, M.G.; Maestro, B.; Díez, R.; García, P.; Sanz, J.M.
Entity holder of rights: Universidad Miguel Hernández de Elche y CSIC
Nº of application: ES201331031
Country of inscription: Spain
Date of register: 08/07/2013
Conferral date: 23/10/2015
Nº of patent: ES2526580
Spanish patent: Yes **EU patent:** No
International non-EU patent: No **PCT patent:** No
- 5 Title registered industrial property:** Choline-affinity domains to improve the expression, immobilization and purification of polypeptides.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Maestro B; Arévalo M; Hernández VM; Cebolla A; Sanz JM
Entity holder of rights: Universidad Miguel Hernández
Nº of application: 200700281
Country of inscription: Spain
Date of register: 29/01/2007
Conferral date: 11/03/2010
Nº of patent: ES2321788
Spanish patent: Yes
Licences: Yes
Operating aut.region/region: Spain
Companies: Biomedal S.L. (Sevilla)
Exclusive use: Yes
Results: Success
Products: "kit" de purificación C-LYTAG (<http://tinyurl.com/lytagsystem>)
- 6 Title registered industrial property:** Procedures for separation of recombinant proteins in aqueous two-phase systems
Description of qualities: Patente extendida a Estados Unidos con referencia US8329877, a Europa con referencia EP2196470 y a Japón con referencia JP5271354
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Sanz JM; Maestro B; Arévalo M; Velasco I; Cebolla A
Entity holder of rights: Universidad Miguel Hernández y Biomedal S.L.
Nº of application: 200702504
Country of inscription: Spain
Date of register: 12/09/2007
Conferral date: 01/02/2010
Nº of patent: ES2319844
Spanish patent: Yes **PCT patent:** Yes
International non-EU patent: Yes
Licences: Yes
Operating aut.region/region: Spain / United States of America
Companies: Biomedal S.L. (Sevilla)



Exclusive use: Yes

Results: Success

Products: "kit" de purificación LYTAG-2-PHASE (<http://tinyurl.com/lytagsystem2>)

7 Title registered industrial property: Procedure for the single-step immobilization and/or purification of fusion proteins with biotechnological interest.

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Sánchez-Puelles JM; Sanz JM; García JL; García E

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: 9100732

Country of inscription: Spain

Date of register: 22/03/1991

Conferral date: 16/02/1993

Nº of patent: ES2032717

Spanish patent: Yes

Knowledge transfer and exchange

Several of my results were transferred to the Society and the productive sector:

- First commercial protein immobilization and affinity purification system of fully Spanish technology, using choline-binding modules as affinity tags. Led to 3 patents (2 licensed and international), 2 contracts with companies (Biomedal S.L. and Biopolis S.A.) and 2 marketed products (LYTAGÒ and LYTAG-2-PHASEÒ)
- Valorization of natural biopolymers (polyhydroxyalkanoates) by constructing an enzymatic mini-bioreactor for decolorization of wastewaters from textile industries. This was supported by 3 contracts with the Technological Centre AITEX (Spain)
- New molecules, peptides and nanoparticles with bactericidal effect on respiratory pathogens such as *Streptococcus pneumoniae* and *Haemophilus influenzae*, leading to three patents and selected by the Kaertor Foundation in 2017 as possible candidates for their pipeline of support for new drugs. In this topic, together with Dr. Beatriz Maestro, I received in 2006 the V Salvat Prize to the Best Research Project in Biomedical Sciences.



Scientific and technological activities

Scientific production

H index: 33

Date of application: 05/02/2026

Source of H-Index: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** de Eugenio, L.I.; Jimenez, J.D.; Ramos, E.; Serrano-Aguirre, L.; Sanz, J.M.; Prieto, M.A.. Revealing the essential role of the lid in mclPHA intracellular depolymerase from *Pseudomonas putida* KT2440. *Appl. Microbiol. Biotechnol.* 109, pp. 215. 2025.

DOI: 10.1007/s00253-025-13605-z

Type of production: Scientific paper

Total no. authors: 6

Impact source: WOS (JCR)

Impact index in year of publication: 4.3

Position of publication: 42

Impact source: SCOPUS (SJR)

Impact index in year of publication: 8.5

Position of publication: 22

Format: Journal

Corresponding author: No

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 177

Category: Immunology and Microbiology

Journal in the top 25%: Yes

No. of journals in the cat.: 128

- 2** Ortiz-Miravalles, L.; Sánchez-Angulo, M.; Sanz, J.M.*; Maestro, B.*. Drug Repositioning as a Therapeutic Strategy against *Streptococcus pneumoniae*: Cell Membrane as Potential Target. *Int. J. Mol. Sci.* 24, pp. 5831. 2023.

DOI: 10.3390/ijms24065831

Handle: <http://hdl.handle.net/10261/308004>

Handle: <https://hdl.handle.net/20.500.14352/72396>

Type of production: Scientific paper

Corresponding author: Yes

Impact source: WOS (JCR)

Impact index in year of publication: 5.60

Position of publication: 66

Impact source: SCOPUS (SJR)

Impact index in year of publication: 7.8

Position of publication: 29

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 285

Category: Organic Chemistry

Journal in the top 25%: Yes

No. of journals in the cat.: 197

- 3** Hernández-Rocamora, V. M.; Molina, R.; Alba, A.; Carrasco-López, C.; Rojas-Altuve, A.; Panjkar, S.; Medina, A.; Usón, I.; Alfonso, C.; Galán, B.; Rivas, G.; Hermoso, J.A.; Sanz, J.M.. Structural characterization of PaaX, the main repressor of the phenylacetate degradation pathway in *Escherichia coli* W: A novel fold of transcription regulator proteins. *Int. J. Biol. Macromol.* 254, pp. 127935. 2023.

DOI: 10.1016/j.ijbiomac.2023.127935

Handle: <http://hdl.handle.net/10261/341051>

Type of production: Scientific paper

Corresponding author: Yes

Impact source: SCOPUS (SJR)

Impact index in year of publication: 14.5

Position of publication: 3

Impact source: WOS (JCR)

Impact index in year of publication: 8.2

Position of publication: 5

Relevant results: Decile-1 in Web of Science (JCR) and Scopus

Category: Structural Biology

Journal in the top 25%: Yes

No. of journals in the cat.: 45

Category: Science Edition - POLYMER SCIENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 86

- 4** Fuentes-Baile, M.; Perez-Valenciano, E.; Garcia-Morales, P.; Romero, C. de J.; Bello-Gil, D.; Barbera, V.M.; Rodriguez-Lescure, A.; Sanz, J.M.; Alenda, C.; Saceda, M.. CLytA-DAAO chimeric enzyme bound to magnetic nanoparticles. A new therapeutical approach for cancer patients?. *Int. J. Mol. Sci.*22, pp. 1477. 2021.

DOI: 10.3390/ijms22031477

Handle: <http://hdl.handle.net/10261/262217>

Type of production: Scientific paper

Corresponding author: No

Impact source: WOS (JCR)

Impact index in year of publication: 6.21

Position of publication: 69

Impact source: SCOPUS (SJR)

Impact index in year of publication: 6.9

Position of publication: 11

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 297

Category: Inorganic Chemistry

Journal in the top 25%: Yes

No. of journals in the cat.: 72

- 5** Vleugels, M.; Varela-Aramburu, S.; Schoenmakers, S.; Maestro, B.; Palmans, A.; Sanz, J.M.*; Meijer, E.W.*. Choline-functionalized supramolecular copolymers: towards antimicrobial activity against *Streptococcus pneumoniae*. *Biomacromolecules*. 22, pp. 5363 - 5373. 2021.

DOI: 10.1021/acs.biomac.1c01293

Handle: <http://hdl.handle.net/10261/256641>

Handle: <https://hdl.handle.net/20.500.14352/95503>

Type of production: Scientific paper

Corresponding author: Yes

Impact source: SCOPUS (SJR)

Impact index in year of publication: 11.3

Position of publication: 9

Impact source: WOS (JCR)

Impact index in year of publication: 6.98

Position of publication: 3

Relevant results: Decile-1 in Web of Science (JCR) and Scopus

Category: Polymers and Plastics

Journal in the top 25%: Yes

No. of journals in the cat.: 154

Category: Science Edition - CHEMISTRY, ORGANIC

Journal in the top 25%: Yes

No. of journals in the cat.: 56

- 6** Vázquez, R.; Caro-León, F.J.; Nakal, A.; Ruiz, S.; Doñoro, C.; García-Fernández, L.; Vázquez-Lasa, B.; San Román, J.; Sanz, J.M.; García, P.; Aguilar, M.A.. DEAE-chitosan nanoparticles as a pneumococcus-biomimetic material for the development of antipneumococcal therapeutics. *Carbohydr. Polym.*273, pp. 118605. 2021.

DOI: 10.1016/j.carbpol.2021.118605

Handle: <http://hdl.handle.net/10261/250163>

Type of production: Scientific paper

Corresponding author: No

Impact source: WOS (JCR)
Impact index in year of publication: 10.72
Position of publication: 2

Category: Science Edition - CHEMISTRY, ORGANIC
Journal in the top 25%: Yes
No. of journals in the cat.: 57

Impact source: SCOPUS (SJR)
Impact index in year of publication: 16.2
Position of publication: 3

Category: Polymers and Plastics
Journal in the top 25%: Yes
No. of journals in the cat.: 54

Relevant results: Decile-1 in Scopus

- 7** Maestro, B.; Zamora-Carreras, H.; Jiménez, M.A.; Sanz, J.M.. Inter-hairpin linker sequences determine the structure of the $\beta\beta$ -solenoid fold: a "bottom-up" study of pneumococcal LytA choline-binding module. *Int. J. Biol. Macromol.* 190, pp. 679 - 692. 2021.

DOI: 10.1016/j.ijbiomac.2021.08.223

Handle: <http://hdl.handle.net/10261/250186>

Handle: <https://hdl.handle.net/20.500.14352/94089.2>

Type of production: Scientific paper

Corresponding author: Yes

Impact source: SCOPUS (SJR)
Impact index in year of publication: 11.6
Position of publication: 39

Category: Biochemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 425

Impact source: WOS (JCR)
Impact index in year of publication: 8.03
Position of publication: 6

Category: Science Edition - POLYMER SCIENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 90

Relevant results: Decile-1 in Web of Science (JCR) and Scopus

- 8** Fuentes-Baile, M.; Bello-Gil, D.; Pérez-Valenciano, E.; Sanz, J.M.; García-Morales, P.; Maestro, B.; Ventero, M.P.; Alenda, C.; Barberá, V.M.; Saceda, M.. CLytA-DAAO, Free and Immobilized in Magnetic Nanoparticles, Induces Cell Death in Human Cancer Cells. *Biomolecules.* 10, pp. 222. 2020.

DOI: 10.3390/biom10020222

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 10

Impact source: SCOPUS (SJR)
Impact index in year of publication: 3.2
Position of publication: 269

Format: Journal

Corresponding author: No
Category: Biochemistry
Journal in the top 25%: No
No. of journals in the cat.: 415

Impact source: WOS (JCR)
Impact index in year of publication: 4.88
Position of publication: 96

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 265

- 9** Fuentes-Baile, M.; Garcia-Morales, P.; Perez-Valenciano, E.; Ventero, M.P.; Sanz, J.M.; de Juan-Romero, C.; Barbera, V.M.; Alenda, C.; Saceda, M.. Cell death mechanisms induced by CLytA-DAAO 2 chimeric enzyme in human tumor cell lines. *Int.J.Mol.Sci.* 21, pp. 8522. 2020.

DOI: 10.3390/ijms21228522

Type of production: Scientific paper

Corresponding author: No

Impact source: WOS (JCR)
Impact index in year of publication: 5.92

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes

Position of publication: 67

No. of journals in the cat.: 295

- 10** Mato, A.; Blanco, F.G.; Maestro, B.; Sanz, J.M.; Pérez-Gil, J.; Prieto, M. A.. Dissecting the polyhydroxyalkanoate binding domain of the PhaF phasin: rational design of a minimized affinity tag. *Appl. Environ. Microbiol.* 86, pp. e00570-20. 2020.

DOI: 10.1128/AEM.00570-20

Handle: <http://hdl.handle.net/10261/208613>

Handle: <https://hdl.handle.net/20.500.14352/95495>

Type of production: Scientific paper

Corresponding author: No

Impact source: WOS (JCR)

Impact index in year of publication: 4.79

Position of publication: 38

Impact source: SCOPUS (SJR)

Impact index in year of publication: 7.1

Position of publication: 34

Relevant results: Decile-1 in Scopus

Format: Journal

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 159

Category: Ecology

Journal in the top 25%: Yes

No. of journals in the cat.: 400

- 11** Roig-Molina, E.; Sánchez-Angulo, M.; Seele, J.; García-Asencio, F.; Nau, R.; Sanz, J.M.; Maestro, B.. Searching for antipneumococcal targets: Choline-binding modules as phagocytosis enhancers. *ACS Infect. Dis.* 6, pp. 954 - 974. 2020.

DOI: 10.1021/acsinfecdis.9b00344

Handle: <http://hdl.handle.net/10261/203533>

Handle: <https://hdl.handle.net/20.500.14352/92607.2>

Type of production: Scientific paper

Corresponding author: Yes

Impact source: WOS (JCR)

Impact index in year of publication: 5.08

Position of publication: 13

Impact source: SCOPUS (SJR)

Impact index in year of publication: 6.0

Position of publication: 63

Format: Journal

Category: Science Edition - CHEMISTRY, MEDICINAL

Journal in the top 25%: Yes

No. of journals in the cat.: 62

Category: Infectious Diseases

Journal in the top 25%: Yes

No. of journals in the cat.: 288

- 12** Tarazona, N.A.; Maestro, B.; Revelles, O.; Sanz, J.M.; Prieto, M.A.. Role of leucine zipper-like motifs in the oligomerization of *Pseudomonas putida* phasins. *Biochim. Biophys. Acta Gen. Sub.* 1863, pp. 362 - 370. 2019.

Type of production: Scientific paper

Corresponding author: No

Impact source: WOS (JCR)

Impact index in year of publication: 3,7

Position of publication: 19

Category: Biophysics

Journal in the top 25%: No

No. of journals in the cat.: 72

- 13** Roig-Molina, E.; Domenech, M.; Retamosa, M.de G.; Nacher-Vazquez, M.; Rivas, L.; Maestro, B.; García, P.; Garcia, E.; Sanz, J.M.. Widening the antimicrobial spectrum of esters of bicyclic amines: in vitro effect on Gram-positive *Streptococcus pneumoniae* and Gram-negative non-typeable *Haemophilus influenzae* biofilms. *Biochimica et Biophysica Acta - General Subjects.* 1863, pp. 96 - 104. 2019.

Type of production: Scientific paper

Position of signature: 9

Format: Journal

**Total no. authors:** 9**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.7**Position of publication:** 19**Corresponding author:** Yes**Category:** Biophysics**Journal in the top 25%:** No**No. of journals in the cat.:** 72

- 14** Bello-Gil, D.; Roig-Molina, E.; Fonseca, J.; Sarmiento-Fernandez, M.D.; Ferrandiz, M.; Franco, E.; Mira, E.; Maestro, B.; Sanz, J.M.. An enzymatic system for decolorisation of wastewater dyes using immobilized CueO laccase-like multicopper oxidase on poly-3-hydroxybutyrate. *Microb. Biotech.*11, pp. 881 - 892. 2018. Available on-line at: <<https://doi.org/10.1111/1751-7915.13287>>.

Type of production: Scientific paper**Corresponding author:** Yes**Impact source:** WOS (JCR)**Impact index in year of publication:** 4.9**Position of publication:** 22**Format:** Journal**Category:** Biotechnology & Applied Microbiology**Journal in the top 25%:** Yes**No. of journals in the cat.:** 162

- 15** Bello-Gil, D.; Maestro, B.; Fonseca, J.; Dinjaski, N.; Prieto, M.A.; Sanz, J.M.. Poly-3- hydroxybutyrate functionalization with BioF-tagged recombinant proteins. *Appl. Environ. Microbiol.*84, pp. e02595-17. 2018.

DOI: <https://doi.org/10.1128/AEM.02595-17>**Type of production:** Scientific paper**Corresponding author:** Yes**Impact source:** WOS (JCR)**Impact index in year of publication:** 4.1**Position of publication:** 33**Format:** Journal**Category:** Biotechnology and Applied Microbiology**Journal in the top 25%:** Yes**No. of journals in the cat.:** 162

- 16** Zamora-Carreras, H.; Maestro, B.; Strandberg, E.; Ulrich, A.; Sanz, J.M.*; Jimenez, M.A.*. Roles of amphipathicity and hydrophobicity in the micelle-driven structural switch of a 14-mer peptide core from a choline-binding repeat. *Chem. Eur. J.*24, pp. 5825 - 5839. 2018.

Type of production: Scientific paper**Corresponding author:** Yes**Impact source:** WOS (JCR)**Impact index in year of publication:** 5.2**Position of publication:** 37**Format:** Journal**Category:** Chemistry, multidisciplinary**Journal in the top 25%:** Yes**No. of journals in the cat.:** 172

- 17** Retamosa, M. de G.; Díez-Martínez, R.; Maestro, B.; García-Fernández, E.; de Waal, B.; Meijer, E. W.; García, P.; Sanz, J. M.. Aromatic esters of bicyclic amines as antimicrobials against *Streptococcus pneumoniae*. *Angew. Chem. Int. Ed.*54, pp. 13673 - 13677. 2015.

Type of production: Scientific paper**Corresponding author:** Yes**Impact source:** WOS (JCR)**Impact index in year of publication:** 11,7**Position of publication:** 11**Format:** Journal**Category:** CHEMISTRY, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 163**Relevant results:** doi: 10.1002/anie.201505700

- 18** Zamora-Carreras, H.; Maestro, B.; Strandberg, E.; Ulrich, A. S.; Sanz, J. M.; Jiménez, M. A.. Micelle-Triggered beta-Hairpin to alpha-Helix Transition in a 14-Residue Peptide from a Choline-Binding Repeat of the Pneumococcal Autolysin LytA. *Chem. Eur. J.*21, pp. 8076 - 8089. Wiley-VCH, 2015.

Type of production: Scientific paper**Impact source:** WOS (JCR)**Format:** Journal**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 5.8
Position of publication: 24

Journal in the top 25%: Yes
No. of journals in the cat.: 163

- 19** Obeso, J.; Maestro, B.; Sanz, J. M.; Olivera, E.; Luengo, J. M.. The loss of function of PhaC1 is a survival mechanism that counteracts the stress caused by the overproduction of poly-3-hydroxyalkanoates in *Pseudomonas putida* ? fadBA. *Environ. Microbiol.* 17, pp. 3182 - 3194. 2015.

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 5,9

Position of publication: 16

Category: Microbiology

Journal in the top 25%: Yes

No. of journals in the cat.: 123

- 20** Silva-Martin, N; Retamosa, M.G.; Maestro, B.; Bartual, S.G.; Rodes, M.J.; García, P.; Sanz, J.M.*; Hermoso, J.A.*. Crystal structures of CbpF complexed with atropine and ipratropium reveal clues for the design of novel antimicrobials against *Streptococcus pneumoniae*. *Biochimica et Biophysica Acta (BBA) - General Subjects*. 1840, pp. 129 - 135. Elsevier, 2014.

Type of production: Scientific paper

Corresponding author: Yes

Impact source: WOS (JCR)

Impact index in year of publication: 4,4

Position of publication: 14

Format: Journal

Category: Biophysics

Journal in the top 25%: Yes

No. of journals in the cat.: 73

Relevant results: J.M. Sanz ha contribuido igualmente que el último autor, y es asimismo autor de correspondencia.

- 21** Bello-Gil, D.; Maestro, B.; Fonseca, J.; Feliu, J.M.; Climent, V.; Sanz, J.M.. Specific and reversible immobilization of proteins tagged to the affinity polypeptide C-LytA on functionalized graphite electrodes. *PLoS ONE*. 9, pp. e87995. 2014.

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.2

Position of publication: 8

Format: Journal

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 56

- 22** Beatriz Maestro; Beatriz Galán; Alfonso Carlos; Germán Rivas; María A. Prieto; Jesús M. Sanz. A New Family of Intrinsically Disordered Proteins: Structural Characterization of the Major Phasin PhaF from *Pseudomonas putida* KT2440. *PLoS ONE*. 8 - 2, pp. e56904. 2013.

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.7

Position of publication: 7

Format: Journal

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Relevant results: Primer modelo descriptivo de la fasina PhaF de *Pseudomonas*. Primer indicio publicado de que gran parte de las fasinas podrían oligomerizar a través de cremalleras de leucina y poseer un alto grado de desorden intrínseco.

- 23** Sandra Ribes; Jörn Riegelmann; Sandra Redlich; Beatriz Maestro; Bas de Waal; E.W. Meijer; Jesús M. Sanz; Roland Nau. Multivalent choline dendrimers increase phagocytosis of *Streptococcus pneumoniae* R6 by microglial cells. *Chemotherapy*. 59, pp. 138 - 142. Karger, 2013.

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 1,6

Format: Journal

Category: Science Edition - PHARMACOLOGY & PHARMACY

Journal in the top 25%: No

**Position of publication:** 171**No. of journals in the cat.:** 256

- 24** Esquembre, R; Sanz, J.M.; Wall, G.; Mateo, C.R.; del Monte, F.; Ferrer, M.L.. Thermal Unfolding and Refolding of Lysozyme in Deep Eutectic Solvents and Their Aqueous Dilutions. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 15, pp. 11248 - 11256. 2013.

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL**Impact index in year of publication:** 4,2**Journal in the top 25%:** Yes**Position of publication:** 5**No. of journals in the cat.:** 33

- 25** Hernandez-Rocamora, Victor M.; Reulen, Sanne W. A.; de Waal, Bas; Meijer, E. W.; Sanz, Jesus M.; Merckx, Maarten. Choline dendrimers as generic scaffolds for the non-covalent synthesis of multivalent protein assemblies. CHEMICAL COMMUNICATIONS. 47 - 21, pp. 5997 - 5999. 2011. ISSN 1359-7345

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY**Impact index in year of publication:** 6.17**Journal in the top 25%:** Yes**Position of publication:** 19**No. of journals in the cat.:** 154

- 26** Rojas-Altuve, Alzoray; Carrasco-Lopez, Cesar; Hernandez-Rocamora, Victor M.; Sanz, Jesus M.; Hermoso, Juan A.. Crystallization and preliminary X-ray diffraction studies of the transcriptional repressor PaaX, the main regulator of the phenylacetic acid degradation pathway in Escherichia coli W. ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY AND CRYSTALLIZATION COMMUNICATIONS. 67, pp. 1278 - 1280. 2011. ISSN 1744-3091

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - CRYSTALLOGRAPHY**Impact index in year of publication:** 0.51**Journal in the top 25%:** No**Position of publication:** 21**No. of journals in the cat.:** 25

- 27** Galan, B.; Dinjaski, N.; Maestro, B.; de Eugenio, L. I.; Escapa, I. F.; Sanz, J. M.; Garcia, J. L.; Prieto, M. A.. Nucleoid-associated PhaF phasin drives intracellular location and segregation of polyhydroxyalkanoate granules in Pseudomonas putida KT2442. MOLECULAR MICROBIOLOGY. 79 - 2, pp. 402 - 418. 2011. ISSN 0950-382X

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - MICROBIOLOGY**Impact index in year of publication:** 5.01**Journal in the top 25%:** Yes**Position of publication:** 19**No. of journals in the cat.:** 114

- 28** Maestro, Beatriz; Novakova, Linda; Heseck, Dusan; Lee, Mijoon; Leyva, Eduardo; Mobashery, Shahriar; Sanz, Jesus M.*; Branny, Pavel. Recognition of peptidoglycan and beta-lactam antibiotics by the extracellular domain of the Ser/Thr protein kinase StkP from Streptococcus pneumoniae. FEBS LETTERS. 585 - 2, pp. 357 - 363. 2011. ISSN 0014-5793

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - BIOPHYSICS**Impact index in year of publication:** 3.54**Journal in the top 25%:** No**Position of publication:** 21**No. of journals in the cat.:** 74**Relevant results:** J.M. Sanz es el autor de correspondencia



- 29** Maestro, Beatriz; Santiveri, Clara M.; Angeles Jimenez, M.; Sanz, Jesus M.. Structural autonomy of a beta-hairpin peptide derived from the pneumococcal choline-binding protein LytA. PROTEIN ENGINEERING DESIGN & SELECTION. 24 - 1-2, pp. 113 - 122. 2011. ISSN 1741-0126
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 2.94
Position of publication: 50
Format: Journal
Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 158
- 30** Isabel de Eugenio, Laura; Galan, Beatriz; Escapa, Isabel F.; Maestro, Beatriz; Sanz, Jesus M.; Luis Garcia, Jose; Prieto, Maria A.. The PhaD regulator controls the simultaneous expression of the pha genes involved in polyhydroxyalkanoate metabolism and turnover in Pseudomonas putida KT2442. ENVIRONMENTAL MICROBIOLOGY. 12 - 6, pp. 1591 - 1603. 2010. ISSN 1462-2912
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 5.54
Position of publication: 14
Format: Journal
Category: Science Edition - MICROBIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 107
- 31** Mingot, Jose-Manuel; Vega, Sonia; Maestro, Beatriz; Sanz, Jesus M.; Nieto, M. Angela. Characterization of Snail nuclear import pathways as representatives of C(2)H(2) zinc finger transcription factors. JOURNAL OF CELL SCIENCE. 122 - 9, pp. 1452 - 1460. 2009. ISSN 0021-9533
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 6.14
Position of publication: 31
Format: Journal
Category: Science Edition - CELL BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 162
- 32** Hernandez-Rocamora, Victor M.; Maestro, Beatriz; de Waal, Bas; Morales, Maria; Garcia, Pedro; Meijer, E. W.; Merckx, Maarten; Sanz, Jesus M.. Multivalent Choline Dendrimers as Potent Inhibitors of Pneumococcal Cell-Wall Hydrolysis. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. 48 - 5, pp. 948 - 951. 2009. ISSN 1433-7851
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 11.83
Position of publication: 5
Format: Journal
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 140
- 33** Maestro, Beatriz; Velasco, Isabel; Castillejo, Isabel; Arevalo-Rodriguez, Miguel; Cebolla, Angel; Sanz, Jesus M.. Affinity partitioning of proteins tagged with choline-binding modules in aqueous two-phase systems. JOURNAL OF CHROMATOGRAPHY A. 1208 - 1-2, pp. 189 - 196. 2008. ISSN 0021-9673
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 3.76
Position of publication: 6
Format: Journal
Category: Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 70
- 34** de Eugenio, L. I.; Garcia, J. L.; Garcia, P.; Prieto, M. A.; Sanz, J. M.. Comparative analysis of the physiological and structural properties of a medium chain length polyhydroxyalkanoate depolymerase from Pseudomonas putida KT2442. ENGINEERING IN LIFE SCIENCES. 8 - 3, pp. 260 - 267. 2008. ISSN 1618-0240
Type of production: Scientific paper
Impact source: WOS (JCR)
Format: Journal
Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY



Impact index in year of publication: 1.2
Position of publication: 103

Journal in the top 25%: No
No. of journals in the cat.: 144

- 35** Arias, Sagrario; Sandoval, Angel; Arcos, Mario; Canedo, Librada M.; Maestro, Beatriz; Sanz, Jesus M.; Naharro, German; Luengo, Jose M.. Poly-3-hydroxyalkanoate synthases from *Pseudomonas putida* U: substrate specificity and ultrastructural studies. MICROBIAL BIOTECHNOLOGY. 1 - 2, pp. 170 - 176. 2008. ISSN 1751-7907

Type of production: Scientific paper

Format: Journal

Impact source: WOS (JCR)

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Impact index in year of publication: 2.53

Journal in the top 25%: No

Position of publication: 62

No. of journals in the cat.: 158

Relevant results: Impacto publicado por primera vez en 2011

- 36** Hernandez-Rocamora, Victor M.; Maestro, Beatriz; Molla-Morales, Almudena; Sanz, Jesus M.. Rational stabilization of the C-LytA affinity tag by protein engineering. PROTEIN ENGINEERING DESIGN & SELECTION. 21 - 12, pp. 709 - 720. 2008. ISSN 1741-0126

Type of production: Scientific paper

Format: Journal

Impact source: WOS (JCR)

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Impact index in year of publication: 2.79

Journal in the top 25%: No

Position of publication: 42

No. of journals in the cat.: 144

- 37** de Eugenio, Laura I.; Garcia, Pedro; Luengo, Jose M.; Sanz, Jesus M.; San Roman, Julio; Garcia, Jose Luis; Prieto, Maria A.. Biochemical evidence that phaZ gene encodes a specific intracellular medium chain length polyhydroxyalkanoate depolymerase in *Pseudomonas putida* KT2442 - Characterization of a paradigmatic enzyme. JOURNAL OF BIOLOGICAL CHEMISTRY. 282 - 7, pp. 4951 - 4962. 2007. ISSN 0021-9258

Type of production: Scientific paper

Format: Journal

Impact source: WOS (JCR)

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 5.58

Journal in the top 25%: Yes

Position of publication: 40

No. of journals in the cat.: 263

- 38** Maestro, Beatriz; Sanz, Jesus M.. Extensive unfolding of the C-LytA choline-binding module by submicellar concentrations of sodium dodecyl sulphate. FEBS LETTERS. 581 - 3, pp. 375 - 381. 2007. ISSN 0014-5793

Type of production: Scientific paper

Format: Journal

Impact source: WOS (JCR)

Category: Science Edition - BIOPHYSICS

Impact index in year of publication: 3.26

Journal in the top 25%: No

Position of publication: 19

No. of journals in the cat.: 69

- 39** Maestro, Beatriz; Gonzalez, Ana; Garcia, Pedro; Sanz, Jesus M.. Inhibition of pneumococcal choline-binding proteins and cell growth by esters of bicyclic amines. FEBS JOURNAL. 274 - 2, pp. 364 - 376. 2007. ISSN 1742-464X

Type of production: Scientific paper

Format: Journal

Impact source: WOS (JCR)

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 3.40

Journal in the top 25%: No

Position of publication: 91

No. of journals in the cat.: 263



- 40** Maestro, B; Sanz, JM. Accumulation of partly folded states in the equilibrium unfolding of the pneumococcal choline-binding module C-LytA. *BIOCHEMICAL JOURNAL*. 387, pp. 479 - 488. 2005. ISSN 0264-6021
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.22
Position of publication: 62
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 261
- 41** MAESTRO B; SANZ JM; DIAZ-OREJAS R; FERNANDEZ-TRESGUERRES E. Modulation of pPS10 host range by plasmid-encoded RepA initiator protein. *Journal of Bacteriology*. 185, pp. 1367 - 1375. 2003.
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.18
Position of publication: 12
Format: Journal
Category: Science Edition - MICROBIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 84
- 42** Galan, B; Kolb, A; Sanz, JM; Garcia, JL; Prieto, MA. Molecular determinants of the hpa regulatory system of *Escherichia coli*: the HpaR repressor. *NUCLEIC ACIDS RESEARCH*. 31 - 22, pp. 6598 - 6609. 2003. ISSN 0305-1048
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 6.58
Position of publication: 24
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 261
- 43** del Pino, MMS; Perez-Mato, I; Sanz, JM; Mato, JM; Corrales, FJ. Folding of dimeric methionine adenosyltransferase III - Identification of two folding intermediates. *JOURNAL OF BIOLOGICAL CHEMISTRY*. 277 - 14, pp. 12061 - 12066. 2002. ISSN 0021-9258
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 6.7
Position of publication: 27
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 266
- 44** Sanz, JM; Jimenez, MA; Gimenez-Gallego, G. Hints of nonhierarchical folding of acidic fibroblast growth factor. *BIOCHEMISTRY*. 41 - 6, pp. 1923 - 1933. 2002. ISSN 0006-2960
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.06
Position of publication: 58
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 266
- 45** Maestro, B; Sanz, JM; Faelen, M; Couturier, M; Diaz-Orejas, R; Fernandez-Tresguerres, E. Modulation of pPS10 host range by DnaA. *MOLECULAR MICROBIOLOGY*. 46 - 1, pp. 223 - 234. 2002. ISSN 0950-382X
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 5.83
Position of publication: 7
Format: Journal
Category: Science Edition - MICROBIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 82



- 46** Lozano, RM; Pineda-Lucena, A; Gonzalez, C; Jimenez, MA; Cuevas, P; Redondo-Horcajo, M; Sanz, JM; Rico, M; Gimenez-Gallego, G. H-1 NMR structural characterization of a nonmitogenic, vasodilatory, ischemia-protector and neuromodulatory acidic fibroblast growth factor. *BIOCHEMISTRY*. 39 - 17, pp. 4982 - 4993. 2000. ISSN 0006-2960
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.22
Position of publication: 60
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 310
- 47** Zurdo, J; Gonzalez, C; Sanz, JM; Rico, M; Remacha, M; Ballesta, JPG. Structural differences between *Saccharomyces cerevisiae* ribosomal stalk proteins P1 and P2 support their functional diversity. *BIOCHEMISTRY*. 39 - 30, pp. 8935 - 8943. 2000. ISSN 0006-2960
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.22
Position of publication: 60
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 310
- 48** Gonzalez-Barroso, MM; Fleury, C; Jimenez, MA; Sanz, JM; Romero, A; Bouillaud, F; Rial, E. Structural and functional study of a conserved region in the uncoupling protein UCP1: The three matrix loops are involved in the control of transport. *JOURNAL OF MOLECULAR BIOLOGY*. 292 - 1, pp. 137 - 149. 1999. ISSN 0022-2836
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 5.5
Position of publication: 33
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 295
- 49** Sanz, JM; GimenezGallego, G. A partly folded state of acidic fibroblast growth factor at low pH. *EUROPEAN JOURNAL OF BIOCHEMISTRY*. 246 - 2, pp. 328 - 335. 1997. ISSN 0014-2956
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 3.25
Position of publication: 69
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 295
Relevant results: Revista conocida actualmente como FEBS Journal
- 50** ZURDO J; SANZ JM; GONZALEZ C; RICO M; GARCIA-BALLESTA JP. The exchangeable yeast ribosomal acidic protein YP2? shows characteristics of a partly folded state under physiological conditions. *Biochemistry*. 36, pp. 9625 - 9635. 1997.
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.22
Position of publication: 45
Format: Journal
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 295
- 51** Padmanabhan, S; Jimenez, MA; Gonzalez, C; Sanz, JM; GimenezGallego, G; Rico, M. Three-dimensional solution structure and stability of phage 434 Cro protein. *BIOCHEMISTRY*. 36 - 21, pp. 6424 - 6436. 1997. ISSN 0006-2960
Type of production: Scientific paper
Impact source: WOS (JCR)
Format: Journal



Impact index in year of publication: 4.62

Position of publication: 45

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 295

- 52** Sanz, JM; Garcia, P; Garcia, JL. Construction of a multifunctional pneumococcal murein hydrolase by module assembly. EUROPEAN JOURNAL OF BIOCHEMISTRY. 235 - 3, pp. 601 - 605. 1996. ISSN 0014-2956

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.25

Position of publication: 69

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 295

Relevant results: Revista conocida actualmente como FEBS Journal

- 53** SANZ, JM; FERSHT, AR. MEASUREMENT OF BARNASE REFOLDING RATE CONSTANTS UNDER DENATURING CONDITIONS. FEBS LETTERS. 344 - 2-3, pp. 216 - 220. 1994. ISSN 0014-5793

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.58

Position of publication: 10

Format: Journal

Category: Science Edition - BIOPHYSICS

Journal in the top 25%: Yes

No. of journals in the cat.: 57

- 54** SANZ, JM; JOHNSON, CM; FERSHT, AR. THE A-STATE OF BARNASE. BIOCHEMISTRY. 33 - 37, pp. 11189 - 11199. 1994. ISSN 0006-2960

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 4.62

Position of publication: 45

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 295

- 55** SANZ, JM; FERSHT, AR. RATIONALLY DESIGNING THE ACCUMULATION OF A FOLDING INTERMEDIATE OF BARNASE BY PROTEIN ENGINEERING. BIOCHEMISTRY. 32 - 49, pp. 13584 - 13592. 1993. ISSN 0006-2960

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 4.62

Position of publication: 45

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 295

- 56** SANZ, JM; GARCIA, JL; LAYNEZ, J; USOBIAGA, P; MENENDEZ, M. THERMAL-STABILITY AND COOPERATIVE DOMAINS OF CPL1 LYSOZYME AND ITS NH₂-TERMINAL AND COOH-TERMINAL MODULES - DEPENDENCE ON CHOLINE BINDING. JOURNAL OF BIOLOGICAL CHEMISTRY. 268 - 9, pp. 6125 - 6130. 1993. ISSN 0021-9258

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 7.2

Position of publication: 23

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 295



- 57** SANCHEZPUELLES, JM; SANZ, JM; GARCIA, JL; GARCIA, E. IMMOBILIZATION AND SINGLE-STEP PURIFICATION OF FUSION PROTEINS USING DEAE-CELLULOSE. EUROPEAN JOURNAL OF BIOCHEMISTRY. 203 - 1-2, pp. 153 - 159. 1992. ISSN 0014-2956
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 3.25 **Journal in the top 25%:** Yes
Position of publication: 69 **No. of journals in the cat.:** 295
Relevant results: Revista conocida actualmente como FEBS Journal
- 58** SANZ, JM; GARCIA, P; GARCIA, JL. ROLE OF ASP-9 AND GLU-36 IN THE ACTIVE-SITE OF THE PNEUMOCOCCAL CPL1 LYSOZYME - AN EVOLUTIONARY PERSPECTIVE OF LYSOZYME MECHANISM. BIOCHEMISTRY. 31 - 36, pp. 8495 - 8499. 1992. ISSN 0006-2960
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.62 **Journal in the top 25%:** Yes
Position of publication: 45 **No. of journals in the cat.:** 295
- 59** SANZ, JM; DIAZ, E; GARCIA, JL. STUDIES ON THE STRUCTURE AND FUNCTION OF THE N-TERMINAL DOMAIN OF THE PNEUMOCOCCAL MUREIN HYDROLASES. MOLECULAR MICROBIOLOGY. 6 - 7, pp. 921 - 931. 1992. ISSN 0950-382X
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - MICROBIOLOGY
Impact index in year of publication: 6.09 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 81
- 60** SANCHEZPUELLES, JM; SANZ, JM; GARCIA, JL; GARCIA, E. CLONING AND EXPRESSION OF GENE FRAGMENTS ENCODING THE CHOLINE-BINDING DOMAIN OF PNEUMOCOCCAL MUREIN HYDROLASES. GENE. 89 - 1, pp. 69 - 75. 1990. ISSN 0378-1119
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - GENETICS & HEREDITY
Impact index in year of publication: 2.01 **Journal in the top 25%:** No
Position of publication: 46 **No. of journals in the cat.:** 103
- 61** SANZ JM; GARCIA JL. Structural studies of the lysozyme coded by the pneumococcal phage Cp-1. Conformational changes induced by choline. Eur. J. Biochem. 187, pp. 409 - 416. 1990.
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 3.25 **Journal in the top 25%:** Yes
Position of publication: 69 **No. of journals in the cat.:** 295
Relevant results: Revista conocida actualmente como FEBS Journal
- 62** SANZ, JM; LOPEZ, R; GARCIA, JL. STRUCTURAL REQUIREMENTS OF CHOLINE DERIVATIVES FOR CONVERSION OF PNEUMOCOCCAL AMIDASE - A NEW SINGLE-STEP PROCEDURE FOR PURIFICATION OF THIS AUTOLYSIN. FEBS LETTERS. 232 - 2, pp. 308 - 312. 1988. ISSN 0014-5793
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - BIOPHYSICS



Impact index in year of publication: 3.58
Position of publication: 10

Journal in the top 25%: Yes
No. of journals in the cat.: 57

- 63** Manoli, M-T.; Tarazona, N.; Mato, A.; Maestro, B.; Sanz, J.M.; Nogales, J.; Prieto, M.A.. Molecular Basis of Medium-Chain Length- PHA Metabolism of Pseudomonas putida. The Handbook of Polyhydroxyalkanoates. pp. 89 - 114. CRC Press, Boca Raton, Florida, US (Koller, M. Ed), 2021. ISBN 9780367275594
DOI: 10.1201/9780429296611
Type of production: Book chapter
Corresponding author: No
- 64** García E; García P; Sánchez-Puelles, JM; Sanz JM; Díaz E; García JL; López R. Searching for evolutionary design of the pneumococcal cell wall lytic enzymes. Bacterial growth and lysis. pp. 253 - 268. Plenum Press, New York (U.S.A.), 1993.
Type of production: Book chapter
Format: Book
- 65** LOPEZ; R.; GARCIA; E.; GARCIA; J.L.; DIAZ; E.; ROMERO; A.; SANZ; J.M.; SANCHEZ-PUELLES; J.M.; GARCIA; P.; RONDA; C.. Lytic enzymes of Streptococcus pneumoniae and its bacteriophages: a model of molecular evolution. pp. 77 - 82. Washington DC American Society for Microbiology, 1991.
Type of production: Book chapter
Format: Book
- 66** Blanco, F.G.; Hernandez, N.; Rivero-Buceta, V.; Maestro, B.; Sanz, J.M.; Mato, A.; Hernandez-Arriaga, A.M.; Prieto, M.A.. From Residues to Added-Value Bacterial Biopolymers as Nanomaterials for Biomedical Applications. Nanomaterials. 11, pp. 1492. 2021.
DOI: 10.3390/nano11061492
Handle: <http://hdl.handle.net/10261/260180>
Type of production: Review
Corresponding author: No
Impact source: WOS (JCR)
Impact index in year of publication: 5.72
Position of publication: 37
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 161
Impact source: SCOPUS (SJR)
Impact index in year of publication: 6.6
Position of publication: 55
Category: General chemical engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 280
- 67** Zamora-Carreras, H.; Maestro, B.; Sanz, J.M.*; Jiménez, M.A.*. Turncoat polypeptides: We adapt to our environment. ChemBioChem. 21, pp. 432 - 441. 2020.
DOI: 10.1002/cbic.201900446
Handle: <https://digital.csic.es/handle/10261/206896>
Type of production: Review
Position of signature: 3
Total no. authors: 4
Format: Journal
Corresponding author: Yes
Impact source: WOS (JCR)
Impact index in year of publication: 3.16
Position of publication: 37
Category: Science Edition - CHEMISTRY, MEDICINAL
Journal in the top 25%: No
No. of journals in the cat.: 62
Impact source: SCOPUS (SJR)
Impact index in year of publication: 4.7
Position of publication: 65
Category: Organic Chemistry
Journal in the top 25%: No
No. of journals in the cat.: 185



- 68** Maestro, B.; Sanz, J.M.. Polyhydroxyalkanoate-associated phasins as phylogenetically heterogeneous, multipurpose proteins. *Microb. Biotech.*10, pp. 1323 - 1337. 2017.
Type of production: Review **Format:** Journal
Corresponding author: Yes
Impact source: WOS (JCR) **Category:** Microbiology
Impact index in year of publication: 3.9 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 160
- 69** Maestro, B.; Sanz, J.M.. Choline Binding Proteins from *Streptococcus pneumoniae*: A Dual Role as Enzybiotics and Targets for the Design of New Antimicrobials. *Antibiotics (Basel)*. 5, pp. E21. 2016.
Type of production: Review **Format:** Journal
Corresponding author: Yes
Impact source: WOS (JCR) **Category:** Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 2.9 **Journal in the top 25%:** No
Position of publication: 109 **No. of journals in the cat.:** 267
- 70** Maestro, B.; Sanz, J.M.. Novel approaches to fight *Streptococcus pneumoniae*. Recent patents on anti-infective drug discovery. 2, pp. 188 - 196. 2007.
Type of production: Review **Format:** Journal
Corresponding author: Yes
- 71** Sanz, J.M.; Maestro, B.. Microbes go nano. *Microb. Biotech.*10, pp. 17 - 18. 2017.
Type of production: Letter **Format:** Journal
Corresponding author: Yes
Impact source: WOS (JCR) **Category:** Biotechnology and Applied Microbiology
Impact index in year of publication: 3.9 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 160

Works submitted to national or international conferences

- 1** **Title of the work:** Catálogo de soluciones AMR. Obstáculos regulatorios y sociales en la transferencia a la industria de nuevos desarrollos: ¿Cómo superarlos? (MESA redonda)
Name of the conference: I Asamblea Conexión CSIC Resistencia Antimicrobianos
Type of participation: Participatory - others
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 24/11/2025
Organising entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Sanz, J.M.
- 2** **Title of the work:** Estudios estructurales y funcionales del enzibiótico VL-1L, la lisozima del bacteriófago vB_PaeS_VL1 de *Pseudomonas aeruginosa*
Name of the conference: IX Reunión Red FAGOMA
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Oviedo, Spain
Date of event: 02/10/2025



Organising entity: Red FAGOMA

Pareja-Cerbán, I.; Martínez, M.; Molina, R.; Maestro, B.; Sanz, J.M.

- 3** **Title of the work:** Bypassing insolubility: choline-binding modules as soluble molecular switches for the functionalization of hydrophobic supports with recombinant proteins
Name of the conference: SBAN2025. Spanish Conference on Biomedical Applications of Biomaterials
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 18/09/2025
Organising entity: Instituto de Ciencia de Materiales **Type of entity:** State agency de Madrid
Torices, M.I.; Soto, H.; Atalaya, C.; Lillo, M.P.; Villar, A.V.; Maestro, B.; Sanz, J.M.
- 4** **Title of the work:** Antibiofilm and antivirulence effects of a quorum quenching acylase and an endolysin on *Pseudomonas aeruginosa*
Name of the conference: XIX Congress of the Spanish Society of Biotechnology
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 15/07/2025
Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA
Vivó-Vindel, L.M.; Baratto, D.; Pareja-Cerbán, I.; Saborido, A.; Rocha, J.; Maestro, B.; Sanz, J.M.; de la Mata, I.
- 5** **Title of the work:** Bypassing insolubility: choline-binding modules as soluble molecular switches for the functionalization of hydrophobic supports with recombinant proteins
Name of the conference: XIX Congress of the Spanish Society of Biotechnology
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 15/07/2025
Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA
Torices, M.I.; Soto, H.; Atalaya, C.; Lillo, M.P.; Villar, A.V.; Maestro, B.; Sanz, J.M.
- 6** **Title of the work:** Microbial valorization of hydrothermal liquefaction wastewater
Name of the conference: XIX Congress of the Spanish Society of Biotechnology
Type of participation: Participatory - oral communication
City of event: Madrid,
Date of event: 15/07/2025
Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA
Pasero, B.; Mendieta-Fernández, M.; Sáinz, C.; Bautista, L.F.; Vicente, G.; Maestro, B.; García, J.L.; Sanz, J.M.
- 7** **Title of the work:** Structural and functional studies of the enzybiotic vl-11, the lysozyme of bacteriophage vb_paes_vl1 of *Pseudomonas aeruginosa*
Name of the conference: XIX Congress of the Spanish Society of Biotechnology
Type of participation: Participatory - oral communication
City of event: Barcelona,
Date of event: 15/07/2025
Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA
Pareja-Cerbán, I.; Martínez, M.; Molina, R.; Maestro, B.; Sanz, J.M.



- 8** **Title of the work:** Estudios estructurales y funcionales del enzibiótico VL-1L, la lisozima del bacteriófago vB_PaeS_VL1 de Pseudomonas aeruginosa
Name of the conference: XXX Congreso de la Sociedad Española de Microbiología (SEM)
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Jaén,
Date of event: 16/06/2025
Organising entity: SOCIEDAD ESPAÑOLA DE MICROBIOLOGIA
Pareja-Cerbán, I.; Martínez, M.; Molina, R.; Maestro, B.; Sanz, J.M.
- 9** **Title of the work:** Sobre la estabilidad estructural y el mecanismo molecular de la endolisina Pae87 del bacteriófago JG004 de Pseudomonas aeruginosa
Name of the conference: VIII Reunión Red FAGOMA
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Canet d'en Berenguer, Valencia, Spain
Date of event: 03/10/2024
Organising entity: Red FAGOMA
Sanz, J.M.; García-Cívico, A.J.; García, P.
- 10** **Title of the work:** Engineering beta-beta-solenoid modules: a monomeric LytA autolysin from Streptococcus pneumoniae
Name of the conference: XIV Reunión del Grupo de Microbiología Molecular de la Sociedad Española de Microbiología (SEM)
Type of participation: Participatory - poster
City of event: Santander, Spain
Date of event: 17/06/2024
End date: 19/06/2024
Organising entity: SOCIEDAD ESPAÑOLA DE MICROBIOLOGIA
de Obesso-Cintas, P.; Sanz, J.M.; Maestro, B.
- 11** **Title of the work:** Sources of stability in beta-beta-solenoid proteins: pneumococcal choline- binding modules
Name of the conference: XIV Reunión del Grupo de Microbiología Molecular de la Sociedad Española de Microbiología (SEM)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Santander, Spain
Date of event: 17/06/2024
End date: 19/06/2024
Organising entity: SOCIEDAD ESPAÑOLA DE MICROBIOLOGIA
Maestro, B.; Saturio-Hornillos, M.; Sanz, J.M.
- 12** **Title of the work:** Microbial valorization of hydrothermal liquefaction wastewater
Name of the conference: IX Congreso nacional de microbiología industrial y biotecnología microbiana
Type of participation: Participatory - poster
City of event: Madrid,
Date of event: 10/06/2024
Organising entity: SOCIEDAD ESPAÑOLA DE MICROBIOLOGIA
Pasero, B.; Mendieta-Fernández, M.; Sáinz, C.; Bautista, L.F.; Vicente, G.; Maestro, B.; García, J.L.; Sanz, J.M.



- 13** **Title of the work:** Multivalencia de proteínas aplicada al desarrollo de antimicrobianos
Name of the conference: II Workshop IMDEA Nanociencia - Nanomedicina CSIC
Type of participation: Participatory - oral communication
City of event: Madrid,
Date of event: 20/05/2024
Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Sanz, J.M.
- 14** **Title of the work:** Novel antimicrobials based on supramolecular structures: multivalent benzenetricarboxamide nanofibres against *Streptococcus pneumoniae*
Name of the conference: Spanish Conference on Biomedical Applications of Nanomaterials (SBAN 2023)
Type of event: Training Session
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 28/09/2023
Organising entity: Instituto de Ciencia de Materiales **Type of entity:** State agency de Madrid
Vleugels, M.E.J.; Varela-Aramburu, S.; Zarychta, W.K.; de Waal, B.F.M.; Schoenmakers, S.M.C.; Maestro, B.; Palmans, A.R.A.; Meijer, E.W.; Sanz, J.M.
- 15** **Title of the work:** Novel antimicrobials based on supramolecular structures: multivalent benzene-tricarboxamide nanofibres against *Streptococcus pneumoniae*
Name of the conference: XXIX Congreso de la Sociedad Española de Microbiología
Type of event: Conference
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Burgos, Spain
Date of event: 25/06/2023
End date: 28/06/2023
Organising entity: Universidad de Burgos **Type of entity:** University
Vleugels, M.E.J.; Varela-Aramburu, S.; Zarychta, W.K.; de Waal, B.; Schoenmakers, S.M.C.; Maestro, B.; Palmans, A.R.A.; Meijer, E.W.; Sanz, J.M.
- 16** **Title of the work:** The membrane of *Streptococcus pneumoniae* as target for drug repurposing
Name of the conference: XXIX Congreso de la Sociedad Española de Microbiología
Type of event: Conference
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Burgos, Spain
Date of event: 25/06/2023
End date: 28/06/2023
Organising entity: Universidad de Burgos **Type of entity:** University
Ortiz-Miravalles, L.; Sánchez-Angulo, M.; Sanz, J.M.; Maestro, B.
- 17** **Title of the work:** Sources of stability in choline-binding modules
Name of the conference: 16th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2023)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes



City of event: Rethymno, Greece

Date of event: 23/05/2023

End date: 26/05/2023

Organising entity: University College London, Sanger Institute, Yale School of Public Health
Maestro, B.; Saturio-Hornillos, M.; Sanz, J.M.

- 18** **Title of the work:** The pneumococcal membrane as a target for drug repurposing
Name of the conference: 16th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2023)
Type of event: Conference
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Rethymno, Greece
Date of event: 23/05/2023
End date: 26/05/2023
Organising entity: University College London, Sanger Institute, Yale School of Public Health
Ortiz-Miravalles, L.; Sánchez-Angulo, M.; Sanz, J.M.; Maestro, B.

- 19** **Title of the work:** A dual mode of interaction of pneumococcal choline-binding modules with iron oxide magnetic nanoparticles
Name of the conference: II Asamblea de la Conexión Nanomedicina CSIC
Type of event: Training Session
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 27/03/2023
Organising entity: Consejo Superior de Investigaciones Científicas
Espinosa-González, T.; García-Álvarez, R.; Maestro, B.; Sanz, J.M. **Type of entity:** State agency

- 20** **Title of the work:** Nanomedicina antimicrobiana
Name of the conference: I Escuela de Verano: La medicina del futuro: Nanomedicina
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Santander, Spain
Date of event: 11/07/2022
End date: 15/07/2022
Organising entity: Universidad Internacional Menéndez Pelayo (UIMP)
Sanz, J.M.

- 21** **Title of the work:** Choline-binding modules: spring-like polypeptides with chameleonic properties
Name of the conference: 15th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2022)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Liverpool, United Kingdom
Date of event: 31/05/2022
End date: 03/06/2022
Organising entity: University of Liverpool
Sanz, J.M.



- 22** **Title of the work:** Marginal stability in the PASTA domains of the StkP kinase extracellular domain
Name of the conference: 15th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2022)
Type of participation: Participatory - poster
Corresponding author: No
City of event: Liverpool, United Kingdom
Date of event: 31/05/2022
End date: 03/06/2022
Organising entity: University of Liverpool
Matesanz, R.; Sanz, J.M.; Maestro, B.
- 23** **Title of the work:** Magnetic nanoparticles functionalized with choline-binding modules as antimicrobials against *Streptococcus pneumoniae*
Name of the conference: NALS 2022 - Nanomaterials applied to life sciences
Type of event: Conference
Type of participation: Participatory - others
Corresponding author: No
City of event: Santander, Spain
Date of event: 27/04/2022
End date: 29/04/2022
Organising entity: Universidad de Cantabria / Instituto de Investigación Sanitaria IDIVAL
Cibantos, S.; Roig-Molina, E.; Sánchez-Angulo, M.; Seele, J.; García-Asencio, F.; Nau, R.; Sanz, J.M.; Maestro, B.
- 24** **Title of the work:** Multivalence effects associated to dynamic benzene-tricarboxamide supramolecular structures: application as antimicrobials
Name of the conference: NALS 2022 - Nanomaterials applied to life sciences
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Santander, Spain
Date of event: 27/04/2022
End date: 29/04/2022
Organising entity: Universidad de Cantabria and Instituto de Investigación Sanitaria IDIVAL
Vleugels, M.E.J.; Varela-Aramburu, S.; de Waal, B.; Schoenmakers, S.M.C.; Maestro, B.; Palmans, A.R.A.; Sanz, J.M.*; Meijer, E.W.
- 25** **Title of the work:** Multivalencia y nanotecnología: perspectivas terapéuticas.
Name of the conference: Congreso Innova Health 2021
Type of event: Conference
Type of participation: Participatory - invited / keynote talk
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 26/10/2021
Organising entity: Executive Forum España
Sanz.
- 26** **Title of the work:** Choline-functionalized supramolecular polymers as a multivalent platform for pneumococcal targeting
Name of the conference: 3rd Spanish Conference on Biomedical Applications of Nanomaterials (SBAN 2020)
Type of participation: Participatory - poster



Corresponding author: Yes

City of event: Madrid, Spain

Date of event: 03/09/2020

End date: 03/09/2020

Organising entity: Instituto de Ciencia de Materiales (CSIC)

Vleugels, M.E.J.; Varela-Aramburu, S.; Maestro, B.; Palmans, A.R.; Sanz, J.M.*; Meijer, E.W.*.

27 Title of the work: Synthetic choline binding repeats as antimicrobial switch peptides

Name of the conference: 17th Iberian Peptide Meeting

Type of event: Conference

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Madrid,

Date of event: 05/02/2020

End date: 07/02/2020

Organising entity: Instituto de Química Médica e Instituto de Química-Física Rocasolano (CSIC)

Roig-Molina, E.; Maestro, B.; Hendrikse, S.I.S.; Sánchez-Angulo, M.; Meijer, E.W.; Sanz, J.M. Available on-line at: <<http://epi2020.iqfr.csic.es/>>.

28 Title of the work: Antimicrobial effect of peptides and peptide dendrimers based on pneumococcal choline-binding repeats

Name of the conference: Spanish Conference on Biomedical Applications of Biomaterials - SBAN19

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Madrid,

Date of event: 06/06/2019

End date: 07/06/2019

Organising entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Roig-Molina, E.; Maestro, B.; Hendrikse, S.I.S.; Vázquez, R.; García, P.; Sánchez-Angulo, M.; Meijer, E.W.; Sanz, J.M.

29 Title of the work: Specific immobilization of D-amino acid oxidase on ferromagnetic nanoparticles: a therapeutic perspective on chemo-resistant tumor cell lines

Name of the conference: Spanish Conference on Biomedical Applications of Biomaterials - SBAN19

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Madrid,

Date of event: 06/06/2019

End date: 07/06/2019

Organising entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Fuentes-Baile, M.; Bello-Gil, D.; Fonseca, J.; Maestro, B.; Saceda, M.; Sanz, J.M.

30 Title of the work: D-aminoacid oxidase nanoparticles induced cell death in cancer cell lines

Name of the conference: 16th ASEICA international congress

Corresponding author: No

City of event: Valencia, Spain

Date of event: 06/11/2018

Organising entity: Asociación española de investigación sobre el cáncer (ASEICA)

Fuentes, M.; Ventero, M.P.; Sanz, J.M.; Bello, D.; García, M.P.; Pérez, E.; Barberá, V.; Alenda, C.; Saceda, M.



- 31** **Title of the work:** Insights on D-aminoacid oxidase - induced cell death in cancer cell lines
Name of the conference: 16th ASEICA international congress
Corresponding author: No
City of event: Valencia, Spain
Date of event: 06/11/2018
Organising entity: Asociación española de investigación sobre el cáncer (ASEICA)
Fuentes, M.; Ventero, M.P.; Sanz, J.M.; García, M.P.; Pérez, E.; Barberá, V.; Alenda, C.; Rodríguez, A.; Gallego, J.; Saceda, M.
- 32** **Title of the work:** Nanobiotecnología citomimética: nuevos antimicrobianos inspirados en multivalencia natural
Name of the conference: V Escuela De Biología Molecular y Celular Integrativa
Type of event: Cursos de verano de la UIMP
Type of participation: Participatory - invited / keynote talk
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Santander,
Date of event: 27/08/2018
Organising entity: Universidad Internacional Menéndez Pelayo
Type of entity: University
Sanz, J. M.
- 33** **Title of the work:** Mesa redonda: Fronteras en Biología Sintética
Name of the conference: V Escuela De Biología Molecular y Celular Integrativa
Type of event: Cursos de verano de la UIMP
Type of participation: Participatory - others
Reasons for participation: Upon invitation
Corresponding author: No
City of event: Santander,
Date of event: 27/07/2018
Organising entity: Universidad Internacional Menéndez Pelayo
Type of entity: University
Sanz, J. M.
- 34** **Title of the work:** Dendrimeric nanoparticles: multivalency on our side
Name of the conference: 1st nanoBIOSOMA symposium on design, development & production of nanocarriers and nanovehicles
Type of event: Training Session
Geographical area: National
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 12/07/2018
End date: 13/07/2018
Organising entity: Nanobiosoma-CM consortium
Type of entity: Autonomous Community of Madrid
Sanz, J.M.
- 35** **Title of the work:** Antimicrobial activity of peptides derived from LytA autolysin against Streptococcus pneumoniae
Name of the conference: 7th Congress of European microbiologists - FEMS 2017
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes



City of event: Valencia, Spain
Date of event: 09/07/2017
End date: 13/07/2017
Organising entity: Federation of European Microbiological Societies
Roig-Molina, E.; Maestro, B.; Sanchez-Angulo, M.; Sanz, J. M.

- 36** **Title of the work:** Externally added choline-binding modules (CBMs) target the pneumococcal cell wall and affect bacterial growth
Name of the conference: 7th Congress of European microbiologists - FEMS 2017
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Valencia, Spain
Date of event: 09/07/2017
End date: 13/07/2017
Organising entity: Federation of European Microbiological Societies
Sanchez-Angulo, M.; Maestro, B.; Roig-Molina, E.; Garcia-Asencio, F.; Sanz, J. M.
- 37** **Title of the work:** Addition of choline-binding modules (CBMs) causes aggregation and inhibition of cell separation in *Streptococcus pneumoniae* growth cultures
Name of the conference: 13th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2017)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Estocolmo, Sweden
Date of event: 27/06/2017
End date: 30/06/2017
Organising entity: Karolinska Institutet
Sanchez-Angulo, M.; Maestro, B.; Roig-Molina, E.; Marin-Delgado, V.; Sanz, J. M.
- 38** **Title of the work:** Antimicrobial effect of esters of bicyclic amines on *Streptococcus pneumoniae* biofilms
Name of the conference: 13th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2017)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Estocolmo, Sweden
Date of event: 27/06/2017
End date: 30/06/2017
Organising entity: Karolinska Institutet
Roig-Molina, E.; Domenech-Lucas, M.; Garcia, E.; Sanz, J. M.
- 39** **Title of the work:** Antipneumococcal effect of peptides based on isolated choline-binding repeats
Name of the conference: 13th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2017)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Estocolmo, Sweden
Date of event: 27/06/2017



End date: 30/06/2017

Organising entity: Karolinska Institutet

Roig-Molina, E.; Maestro, B.; Sanchez-Angulo, M.; Vazquez-Fernandez, R.; Garcia, P.; Sanz, J. M.

- 40 Title of the work:** Antipneumococcal effect of peptides based on isolated choline-binding repeats
Name of the conference: 13th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2017)

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - poster

Corresponding author: Yes

City of event: Estocolmo, Sweden

Date of event: 27/06/2017

End date: 30/06/2017

Organising entity: Karolinska Institutet

Roig-Molina, E.; Maestro, B.; Sanchez-Angulo, M.; Vazquez-Fernandez, R.; Garcia, P.; Sanz, J. M.

- 41 Title of the work:** PHA-binding domains of phasins as antipneumococcal polypeptides
Name of the conference: 13th European Meeting on the Molecular Biology of the Pneumococcus (Europneumo 2017)

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - poster

Corresponding author: No

City of event: Estocolmo, Sweden

Date of event: 27/06/2017

End date: 30/06/2017

Organising entity: Karolinska Institutet

Bernabeu-Canto, M.; Esteve-Moreno, D.; Sanchez-Angulo, M.; Roig-Molina, E.; Sanz, J. M.; Maestro, B.

- 42 Title of the work:** Actividad antimicrobiana in vitro de péptidos derivados de la autolisina LytA de *Streptococcus pneumoniae*

Name of the conference: Congreso Nacional de Biotecnología - BIOTEC 2017

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Murcia, Spain

Date of event: 18/06/2017

End date: 21/06/2017

Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA/ Universidad de Murcia

Roig-Molina, E.; Maestro, B.; Sánchez-Angulo, M.; Sanz, J. M.

- 43 Title of the work:** La adición externa de módulos de unión a colina (CBMs) afecta al crecimiento de *Streptococcus pneumoniae* mediante la unión a la pared celular.

Name of the conference: Congreso Nacional de Biotecnología - BIOTEC 2017

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Murcia, Spain

Date of event: 18/06/2017

End date: 21/06/2017

Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA/ Universidad de Murcia

Sánchez-Angulo, M.; Roig-Molina, E.; Maestro, B.; Sanz, J. M.



- 44** **Title of the work:** Diseño de nuevas líneas de antimicrobianos frente a neumococo
Name of the conference: II Jornada de Investigación Biomédica HGUE-IBMC
Type of participation: Participatory - oral communication
City of event: Elche, Spain
Date of event: 03/10/2016
End date: 03/10/2016
Organising entity: Universidad Miguel Hernández de Elche/Generalitat Valenciana/FISABIO/Hospital General de Elche
Sanz, J.M.
- 45** **Title of the work:** A bioplastic-based enzymatic system for decolourization of wastewater dyes.
Name of the conference: Biospain 2016 - 8th international meeting on Biotechnology
Type of participation: Participatory - oral communication
City of event: Bilbao, Spain
Date of event: 28/09/2016
End date: 30/09/2016
Organising entity: ASEBIO/Gobierno Vasco/SPRI/Biobasque
Roig-Molina, E.
- 46** **Title of the work:** Unraveling the structural chameleonic behavior of peptides derived from the choline-binding repeats of pneumococcal autolysin LytA
Name of the conference: 8th GERMN / 5th Iberian NMR Meeting
Type of event: Conference
Type of participation: Participatory - poster
City of event: Valencia,
Date of event: 27/06/2016
End date: 29/06/2016
City organizing entity: Real Sociedad Española de Química,
Zamora-Carreras, H.; Maestro, B.; Stranderg, E.; Ulrich, A.S.; Sanz, J.M.; Jiménez, M.A.
- 47** **Title of the work:** A bioplastic-based enzymatic system for decolorization of wastewater dyes: use of bacterial laccases immobilized on polyhydroxybutyrate beads.
Name of the conference: Biolberoamérica - BIOTEC 2016
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Salamanca,
Date of event: 05/06/2016
End date: 08/06/2016
Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA
Roig-Molina, E.; Bello-Gil, D.; Fonseca, J.; Maestro, B.; Ferrandiz, M.; Franco, E.; Mira, E.; Sanz, J.M.
- 48** **Title of the work:** Targeting the pneumococcal cell wall. Effects of externally added proteins containing choline-binding modules (CBMs) on the growth of Streptococcus pneumoniae.
Name of the conference: Biolberoamérica - BIOTEC 2016
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Salamanca,
Date of event: 05/06/2016



End date: 08/06/2016

Organising entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA

Sánchez, M.; Maestro, B.; García-Asencio, F.; Sanz, J.M.

49 Title of the work: Exploring the chameleonic behaviour of peptides derived from the choline-binding domain of pneumococcal autolysin LytA.

Name of the conference: 15º Encuentro peptídico ibérico

Type of event: Conference

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Oporto, Portugal

Date of event: 10/02/2016

End date: 12/02/2016

Organising entity: Universidad de Oporto

Zamora-Carreras, H.; Maestro, B.; Strandberg, E.; Ulrich, A.S.; Sanz, J.M.; Jimenez, M.A.

50 Title of the work: D-aminoacid oxidase nanoparticles induced cell death in cancer cell lines.

Name of the conference: 15th ASEICA International Congress

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - poster

City of event: Sevilla, Spain

Date of event: 21/10/2015

End date: 23/10/2015

Organising entity: Asociacion española de investigación sobre el cáncer.

Fuentes, M.; Lucero, P.; Ventero, M.P.; Pérez-Valenciano, E.; Sanz, J.M.; Micol, V.; García, P.; Martínez-Lacaci, I.; Saceda, M.

51 Title of the work: Nanotechnology based D-aminoacid oxidase enzymatic therapy potentiates the effects of radiotherapy in glioblastoma primary cultures

Name of the conference: 18th ECCO- 40th ESMO European Cancer Congress

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - poster

City of event: Viena, Austria

Date of event: 25/09/2015

End date: 29/09/2015

Organising entity: European Cancer Organization (ECCO) y European Society for Medical Oncology

Saceda, M.; Ventero, M.; Barbera, V.; Lucero-Calabuig, P.; Sanz, J.M.; Fernández-Fornos, L.; Espósito, D.; García-Morales, P.

52 Title of the work: Biología sintética "bottom-up": aproximaciones nanobiotecnológicas

Name of the conference: II Escuela De Biología Molecular y Celular Integrativa

Type of event: Cursos de verano de la UIMP

Type of participation: Participatory - invited / keynote talk

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Santander,

Date of event: 27/07/2015

Organising entity: Universidad Internacional Menéndez Pelayo

Type of entity: University

Sanz, J. M.



- 53** **Title of the work:** Mesa redonda: Biología Sintética-Ingeniería de Sistemas Biológicos
Name of the conference: II Escuela De Biología Molecular y Celular Integrativa
Type of event: Cursos de verano de la UIMP
Type of participation: Participatory - others **Reasons for participation:** Upon invitation
Corresponding author: No
City of event: Santander,
Date of event: 27/07/2015
Organising entity: Universidad Internacional Menéndez Pelayo **Type of entity:** University
Sanz, J. M.
- 54** **Title of the work:** Structural duality in peptides derived from choline binding repeats
Name of the conference: The 29th annual symposium of The Protein Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster
City of event: Barcelona, Spain
Date of event: 22/07/2015
End date: 25/07/2015
Organising entity: The Protein Society
Zamora-Carreras, H.; Silva-Rojas, R.; Maestro, B.; Strandberg, E.; Ulrich, A. S.; Sanz, J. M.; Bruix, M.; Jiménez, M. A.
- 55** **Title of the work:** Conformational plasticity of choline-binding modules: beta-hairpin to alpha-helix transition of choline-binding repeats triggered by detergent micelles and membrane vesicles.
Name of the conference: EUROPNEUMO 2015 - 12th European meeting on the molecular biology of the pneumococcus.
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Oxford, United Kingdom
Date of event: 07/07/2015
End date: 10/07/2015
Organising entity: Universidad de Oxford
Zamora-Carreras, H.; Maestro, B.; Strandberg, E.; Ulrich, A.; Sanz, J. M.; Jiménez, M. A.
- 56** **Title of the work:** Esters of bicyclic amines: a new generation of antimicrobials against pneumococcus
Name of the conference: EUROPNEUMO 2015 - 12th European meeting on the molecular biology of the pneumococcus.
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Oxford, United Kingdom
Date of event: 07/07/2015
End date: 10/07/2015
Organising entity: Universidad de Oxford
Retamosa, M. de G.; Díez-Martínez, R.; Maestro, B.; García-Fernández, E.; de Waal, B.; Meijer, E. W.; García, P.; Sanz, J. M.
- 57** **Title of the work:** On the interaction between the pneumococcal cell wall and the choline-binding modules (CBMs): evaluation of binding affinities and effect of externally added CBMs to bacterial cultures.
Name of the conference: EUROPNEUMO 2015 - 12th European meeting on the molecular biology of the pneumococcus.



Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Oxford, United Kingdom
Date of event: 07/07/2015
End date: 10/07/2015
Organising entity: Universidad de Oxford
Sánchez, M.; Maestro, B.; García-Asencio, F.; Sanz, J. M.

58 **Title of the work:** Structural duality in peptides derived from choline binding repeats
Name of the conference: 6th European Conference: Chemistry in the Life Sciences
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Lisboa, Portugal
Date of event: 10/06/2015
End date: 12/06/2015
Organising entity: European Association for Chemical and Molecular Sciences
Zamora-Carreras, H.; Silva-Rojas, R.; Maestro, B.; Strandberg, E.; Ulrich, A. S.; Sanz, J. M.; Bruix, M.; Jiménez, M. A.

59 **Title of the work:** Radiotherapy gets improved by a nanotechnology-based enzyme therapy
Name of the conference: XVII Congreso de la Sociedad Española de Oncología Radioterápica
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 04/06/2015
End date: 06/06/2015
Organising entity: Sociedad Española de Oncología Radioterápica
Fernández, L.; Barberá, V. M.; García-Morales, P.; Sanz, J. M.; Fuentes, M.; Saceda, M.; Ventero, M. P.; Espósito, D.; Dorado, P.; Garcia, E. Elegida mejor comunicación oral del congreso.,

60 **Title of the work:** A new generation of antimicrobials against pneumococcus
Name of the conference: BIOTEC 2014 - Congreso de la Sociedad Española de Biotecnología
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: MADRID,
Date of event: 01/07/2014
End date: 04/07/2014
Organising entity: Sebiot-ANQUE-ICCE
Retamosa-Hernandez, M. de G.; Díez-Martínez, R.; Maestro, B.; García, P.; Sanz, J.M.

61 **Title of the work:** Structure of isolated choline-binding repeats, the robust building blocks of pneumococcal choline-binding proteins.
Name of the conference: XI European Meeting on the Molecular Biology of the Pneumococcus (EuroPneumo 2013)
Type of event: Conference **Geographical area:** Internacional
Type of participation: Participatory - poster
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 28/05/2013
End date: 31/05/2013

Type of entity: State agency

Organising entity: Consejo Superior de Investigaciones Científicas e Instituto de Salud Carlos III
Héctor Zamora; Jesús M. Sanz; M^a Angeles Jiménez.

- 62** **Title of the work:** Validation of new therapeutic targets in antibacterials throughout an academic Drug Discovery Platform
Name of the conference: XI EUROPEAN MEETING ON THE MOLECULAR BIOLOGY OF THE PNEUMOCOCCUS (EUROPNEUMO 2013)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Madrid, Spain
Date of event: 28/05/2013
End date: 31/05/2013
Organising entity: Consejo Superior de Investigaciones Científicas e Instituto Carlos III
Royo, I.; Aguinagalde, L.; Reines, M.; Marín, N.; Ortega, N.; Yuste, J.; García, E.; García, P.; Sanz, J.M.; Sánchez-Puelles, J.M.
- 63** **Title of the work:** Development of a new affinity immobilization procedure on functionalized graphite electrodes for proteins tagged to choline-binding modules
Name of the conference: 22nd IUBMB & 37th FEBS Congress
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Sevilla,
Date of event: 2012
Bello; D.; Maestro; B.; Fonseca; J.; Feliu; J.M.; Climent; V.; Sanz; J.M.2012.
- 64** **Title of the work:** Development of a new affinity immobilization procedure on functionalized graphite electrodes for proteins tagged to choline-binding modules
Name of the conference: Biospain 2012/ Congreso de la Sociedad Española de Biotecnología (BIOTEC 2012)
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Bilbao,
Date of event: 2012
Bello; D.; Maestro; B.; Fonseca; J.; Feliu; J.M.; Climent; V.; Sanz; J.M.2012.
- 65** **Title of the work:** Caracterización estructural y funcional de la lisozima en líquidos iónicos
Name of the conference: XI Congreso de la Sociedad Biofísica de España (SBE)
Geographical area: National
Type of participation: Participatory - poster
City of event: Murcia,
Date of event: 2011
Esquembre; R.; Sanz; J.M.; Wall; J.G.; del Monte; F.; Ferrer; M.L.; Mateo; C.R..2011.
- 66** **Title of the work:** Dendrímeros como partículas biomiméticas para la inmovilización específica de proteínas utilizando módulos de unión a colina.
Name of the conference: XXXIV Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Geographical area: National
Type of participation: Participatory - poster
City of event: Barcelona,



Date of event: 2011

Hernández-Rocamora; V.M.; Maestro; B.; Reulen; S.W.A.; de Waal; B. F.M.; Morales; M.; García; P.; Meijer; E.W.; Merckx; M.; Sanz; J.M.2011.

- 67** **Title of the work:** In vitro immobilization of proteins to polyhydroxyalkanoates by the N-terminal domain of PhaF phasin from *Pseudomonas putida* (BioF tag): A stability study.
Name of the conference: XXXIV Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Geographical area: National
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 2011
Bello; D.; Maestro; B.; Prieto; M.A.; Sanz; J.M.2011.
- 68** **Title of the work:** La validez de la técnica de phage-display en cuestión: reconocimiento de falsos positivos y métodos para minimizarlos.
Name of the conference: XXXIV Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Geographical area: National
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 2011
Rodes; M.J.; Bello; D.; Retamosa; M.G.; Sanz; J.M.2011.
- 69** **Title of the work:** Specific immobilization and purification of recombinant proteins using diethylaminoethyl-functionalized magnetic nanoparticles
Name of the conference: NanoBio&Med 2011 (Imaginenano 2011)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Bilbao,
Date of event: 2011
Sanz; J.M.; Retamosa-Hernández; G.; Maestro; B.; Rodes-Martínez; M.J.; Ferrer; M.L. and Morales; P.2011.
- 70** **Title of the work:** Specific immobilization and purification of recombinant proteins using diethylaminoethyl-functionalized magnetic nanoparticles.
Name of the conference: XXXIV Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Barcelona,
Date of event: 2011
Retamosa; M.G.; Maestro; B.; Rodes; M.J.; Ferrer; M.L.; Morales; P.; Sanz; J.M.2011.
- 71** **Title of the work:** Characterization of the PhaF phasin from *Pseudomonas putida* KT2442: perspectives for the development of active, biodegradable, natural bioplastics
Name of the conference: BIOTEC 2010 - Congreso de la Sociedad Española de Biotecnología/ BIOSPAIN 10 - 5th International meeting on biotechnology.
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Pamplona,
Date of event: 2010



Maestro; B.; Galán; B.; Prieto; M.A.; Sanz; J.M.2010.

- 72** **Title of the work:** Choline dendrimers as versatile tools for the development of new antibiotics and tissue imaging.
Name of the conference: NanoSpainConf 2010
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Málaga,
Date of event: 2010
Hernández-Rocamora; V.M.; Maestro; B.; Reulen; S.W.A.; de Waal; B. F.M.; Morales; M.; García; P.; Meijer; E.W.; Merckx; M.; Sanz; J.M.2010.
- 73** **Title of the work:** Modelo estructural y funcional de la fasina PhaF de *Pseudomonas putida* KT2442 y de su interacción con polihidroxicanoatos: perspectivas biotecnológicas.
Name of the conference: XXXIII Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Geographical area: National
Type of participation: Participatory - poster
City of event: Córdoba,
Date of event: 2010
Maestro; B.; Galán; B.; Prieto; M.A.; Sanz; J.M.2010.
- 74** **Title of the work:** Recognition of peptidoglycan and β -lactam antibiotics by the extracellular domain of the Ser/Thr protein kinase StkP from *Streptococcus pneumoniae*
Name of the conference: International Conference on Antimicrobial Research
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Valladolid,
Date of event: 2010
Maestro; B.; Nováková; L.; Heseck; D.; Lee; M.; Leyva; E.; Mobashery; S.; Sanz; J.M.; Branny; P.2010.
- 75** **Title of the work:** Caracterización de la fasina PhaF de *Pseudomonas putida* KT2442 y de su unión a polímeros de polihidroxiocanoato.
Name of the conference: XXXII Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Oviedo,
Date of event: 2009
Maestro; B.; Galán; B.; Prieto; M.A.; Sanz; J.M.2009.
- 76** **Title of the work:** Role of the bi-modular PhaF protein as DNA binding factor in *Pseudomonas putida* KT2442.
Name of the conference: 14 th. European Congress on Biotechnology. SYMBIOSIS
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 2009
Galán B.; Maestro; B.; García; J.L.; Sanz; J.M.; Prieto; M. A.2009.
- 77** **Title of the work:** Expression of membrane proteins in bacteria: drawbacks and solutions
Name of the conference: Neurosciences seminar: neurosciences and structural biology: new travelmates for a long trip.



Type of event: Training Session

Geographical area: Local

Type of participation: Participatory - invited / keynote talk

City of event: Soria,

Date of event: 2008

Sanz; J.M.2008.

78 Title of the work: Affinity purification of proteins tagged with choline binding modules in aqueous two-phase systems.

Name of the conference: BIOTEC 2008 - Congreso de la Sociedad Española de Biotecnología/ BIOSPAIN 08 - 4th International meeting on biotechnology.

Geographical area: Non EU International

Type of participation: Participatory - poster

City of event: Granada,

Date of event: 2008

Maestro; B.; Velasco; I.; Castillejo; I.; Arévalo-Rodríguez; M.; Cebolla; A.; Sanz; J.M.2008.

79 Title of the work: Characterization of the PhaF phasin from *Pseudomonas putida* KT2442 and its binding to poly-3-hydroxyoctanoate polymers.

Name of the conference: BIOTEC 2008 - Congreso de la Sociedad Española de Biotecnología/ BIOSPAIN 08 - 4th International meeting on biotechnology.

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Granada,

Date of event: 2008

Maestro; B.; Leyva; E.; Galán; B.; Prieto; M.A.; Sanz; J.M.2008.

80 Title of the work: Characterization of the nuclear import pathways of the Snail superfamily of transcription factors.

Name of the conference: XXXI Congreso de la Sociedad Española de Bioquímica y Biología Molecular.

Geographical area: National

Type of participation: Participatory - poster

City of event: Bilbao,

Date of event: 2008

Mingot; J.M.; Vega; S.; Maestro; B.; Sanz; J.M.; Nieto; M.A.2008.

81 Title of the work: Dendrimers as potent inhibitors of *Streptococcus pneumoniae* autolysis and cell division

Name of the conference: NanobioEurope 2008

Geographical area: European Union

Type of participation: Participatory - oral communication

City of event: Barcelona,

Date of event: 2008

Hernández-Rocamora; V.M.; Maestro; B.; de Waal; B. F.M.; Morales; M.; García; P.; Meijer; E.W.; Merckx; M.; Sanz; J.M.2008.

82 Title of the work: Dendrimers as potent inhibitors of *Streptococcus pneumoniae* autolysis and cell division

Name of the conference: NanobioEurope 2008

Geographical area: European Union

Type of participation: Participatory - poster

City of event: Barcelona,

Date of event: 2008

Hernández-Rocamora; V.M.; Maestro; B.; de Waal; B. F.M.; Morales; M.; García; P.; Meijer; E.W.; Merckx; M.; Sanz; J.M.2008.



- 83** **Title of the work:** Diseño y evaluación como antimicrobianos de inhibidores de las proteínas de unión a colina de *Streptococcus pneumoniae*.
Name of the conference: I Jornada de investigación biomédica Hospital General Universitario de Elche - Universidad Miguel Hernández
Geographical area: Local
Type of participation: Participatory - invited / keynote talk
City of event: Elche,
Date of event: 2008
Sanz; J.M.2008.
- 84** **Title of the work:** Nanopartículas dendríticas como inhibidores de las enzimas líticas de la pared celular de neumococo.
Name of the conference: V Reunión de la Red Nacional de Estructura y Función de Proteínas
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Valencia,
Date of event: 2008
Hernández-Rocamora; V.M.; Maestro; B.; de Waal; B. F.M.; Morales; M.; García; P.; Meijer; E.W.; Merckx; M.; Sanz; J.M.2008.
- 85** **Title of the work:** Choline-derivatized dendrimers, a nanotechnological tool to fight pneumococcal diseases
Name of the conference: Meeting for the Study Groups: Design and Synthesis, Structure and Reactivity, and Biomolecular Chemistry. NWO Chemische Wetenschappen
Geographical area: National
Type of participation: Participatory - poster
City of event: Lunteren, Holland
Date of event: 2007
Hernández-Rocamora; V.M.; Maestro; B.; de Waal; B. F.M.; Morales; M.; García; P.; Meijer; E.W.; Merckx; M. and Sanz; J.M.2007.
- 86** **Title of the work:** Despliegamiento de C-LytA por SDS submicelar
Name of the conference: II Reunión Nacional sobre estabilidad y plegamiento de proteínas. Instituto de Biología Molecular y Celular. Universidad Miguel Hernández.
Geographical area: National
Type of participation: Participatory - oral communication
City of event: San Juan de Alicante,
Date of event: 2007
Maestro; B.; Sanz; J.M.2007.
- 87** **Title of the work:** Los módulos de unión a colina como método de inmovilización no covalente de proteínas en sistemas de alto rendimiento.
Name of the conference: I Congress of the European Proteomics Association
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Valencia,
Date of event: 2007
Maestro; B.; Sanz; J.M.2007.
- 88** **Title of the work:** Pneumococcal choline-binding proteins as targets for new antimicrobials.
Name of the conference: Europneumo. 8th European Meeting on the Molecular Biology of Pneumococcus.
Geographical area: European Union



Type of participation: Participatory - oral communication
City of event: Oeiras, Portugal
Date of event: 2007
Maestro; B.; González; A.; García; P.; Sanz; J.M.2007.

89 **Title of the work:** Efecto del dodecil sulfato sódico en el plegamiento, estabilidad y función del dominio de unión a colina C-LytA
Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: Elche,
Date of event: 2006
Maestro; B.; Sanz; J.M.2006.

90 **Title of the work:** Estudio del mecanismo de acción de StyR mediante mutagénesis dirigida
Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: Elche,
Date of event: 2006
Rodes; M.J.; Fernández; C.; Manso; I.; Sanz; J.M.2006.

91 **Title of the work:** Ingeniería racional del "tag" de afinidad C-LytA
Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: Elche,
Date of event: 2006
Hernández-Rocamora; V.M.; Maestro; B.; Mollá; A.; Sanz; J.M.2006.

92 **Title of the work:** Ingeniería de "tags" de afinidad: el módulo de unión a colina C-LytA.
Name of the conference: IV Reunión de la Red Temática Nacional de Estructura y Función de Proteínas
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Bilbao,
Date of event: 2006
Sanz; J. M.; Hernández; V.M.; Maestro; B.; Mollá; A.2006.

93 **Title of the work:** Potencial biotecnológico de los módulos de unión a colina
Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - invited / keynote talk
City of event: Elche,
Date of event: 2006
Maestro; B.; Hernández-Rocamora; V.M.; Sanz; J.M.2006.

94 **Title of the work:** Potencial biotecnológico de los módulos de unión a colina
Name of the conference: IV Jornadas de la Sociedad Española de Bioquímica "La Empresa Puedes Ser Tú"
City of event: Elche,
Date of event: 2006



Maestro; B.; Hernández-Rocamora; V.M.; Sanz; J.M.2006.

- 95** **Title of the work:** Taller de Modelos Moleculares Jmol
Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - others
City of event: Elche,
Date of event: 2006
Sanz; J. M. 2006.
- 96** **Title of the work:** Effect of sodium dodecyl sulphate on the folding, stability and function of the choline-binding domain C-LytA.
Name of the conference: VI European Symposium of the Protein Society
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 2005
Maestro; B.; Sanz; J.M..2005.
- 97** **Title of the work:** Estabilidad, plegamiento e ingeniería de proteínas de interés biotecnológico y sus posibles aplicaciones "prácticas"
Name of the conference: I Reunión Nacional sobre estabilidad y plegamiento de proteínas. Centro Nacional de Biotecnología.
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid,
Date of event: 2005
Sanz; J.M..2005.
- 98** **Title of the work:** Regulación de la ruta de degradación del ácido 3-hidroxifenilpropiónico en Escherichia coli.
Name of the conference: XX Congreso Nacional de Microbiología
City of event: Cáceres,
Date of event: 2005
Manso; I.; Galán; B.; Sanz; J. M.; Prieto; M. A.; García; J. L.2005.
- 99** **Title of the work:** The choline-binding modules: a powerful biotechnological tool.
Name of the conference: XII European Biotechnology Congress
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Copenhagen, Denmark
Date of event: 2005
Sanz; J.M..2005.
- 100** **Title of the work:** Choline-binding domains: a biophysical overview of a new tool in biomedicine.
Name of the conference: III Portuguese-Spanish Biophysics Congress
Geographical area: European Union
Type of participation: Participatory - invited / keynote talk
City of event: Lisboa, Portugal
Date of event: 2004
Sanz; J.M..2004.



- 101** **Title of the work:** Effect of sodium dodecyl sulphate on the folding, stability and function of the choline-binding domain C-LytA.
Name of the conference: III Portuguese-Spanish Biophysics Congress
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Lisboa, Portugal
Date of event: 2004
Maestro; B.; Sanz; J.M..2004.
- 102** **Title of the work:** Estructuración en dominios del regulador StyR, una proteína implicada en la biodegradación del estireno.
Name of the conference: XXVI Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: La Coruña,
Date of event: 2003
Rodes; M.J.; Sanz; J.M..2003.
- 103** **Title of the work:** Independencia estructural de los motivos de unión a colina del dominio C-LytA.
Name of the conference: XXVI Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: La Coruña,
Date of event: 2003
Maestro; B.; Sanz; J.M..2003.
- 104** **Title of the work:** Studies on the receiver domain of StyR, a regulator of the styrene biodegradation pathway of Pseudomonas sp. Y2.
Name of the conference: IV European Biophysics Congress
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Alicante,
Date of event: 2003
Rodes; M.J.; Sanz; J.M..2003.
- 105** **Title of the work:** Estructura y estabilidad de StyR, una proteína implicada en la biodegradación del estireno.
Name of the conference: XXV Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: León,
Date of event: 2002
Rodes; M.J.; Sanz; J.M..2002.
- 106** **Title of the work:** Plegamiento del dominio de unión a colina C-LytA: un estudio en equilibrio
Name of the conference: XXV Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: León,
Date of event: 2002



Maestro; B.; Sanz; J.M.2002.

- 107** **Title of the work:** Análisis de la interacción del factor de terminación transcripcional m-TERF con el DNA mitocondrial.
Name of the conference: IV Congreso Iberoamericano de Biofísica
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Alicante,
Date of event: 2000
García-Sanz; N.; Mateo; C.R.; Sanz; J.M.2000.
- 108** **Title of the work:** Plasmid and host replication initiator proteins modulate the establishment of plasmid pPS10 in a new host.
Name of the conference: Mobile genetic elements contribution to bacterial adaptability and diversity (MECBAD)
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Praga, Czech Republic
Date of event: 2000
Maestro; B.; Sanz; J.M.; Faelen; M.; Couturier; M.; Díaz-Orejas; R.; Fernández-Tresguerres; E.2000.
- 109** **Title of the work:** Plasmid and host replication initiator proteins modulate the establishment of plasmid pPS10 in a new host.
Name of the conference: Plasmid Biology 2000. International symposium on molecular biology of bacterial plasmids. Academia de ciencias de la República Checa.
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Praga, Czech Republic
Date of event: 2000
Maestro; B.; Sanz; J.M.; Faelen; M.; Couturier; M.; Díaz-Orejas; R.; Fernández-Tresguerres; E.2000.
- 110** **Title of the work:** Protección frente a la isquemia transitoria en el cerebro y el corazón por formas modificadas del factor de crecimiento para fibroblastos: estudios estructurales a alta resolución
Name of the conference: III Reunión de la Red Temática Nacional sobre Plegamiento, Estabilidad e Ingeniería de Proteínas.
Geographical area: National
Type of participation: Participatory - poster
City of event: Guardamar de Segura,
Date of event: 1999
Lozano; R. M.; Pineda-Lucena; A.; Gonzalez; C.; Jiménez M.A.; Cuevas; P.; Redondo-Horcajo; M.; Sanz; J.M.; Rico; M.; Giménez-Gallego; G.1999.
- 111** **Title of the work:** Equilibrium folding intermediates of an all- α protein: acidic fibroblast growth factor.
Name of the conference: 2nd Portuguese-Spanish Biophysics Congress
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Madrid,
Date of event: 1998
Sanz; J.M.; Jiménez; M.A.; Giménez-Gallego; G.1998.



- 112** **Title of the work:** Equilibrium folding intermediates of an all- α protein: acidic fibroblast growth factor.
Name of the conference: Workshop on Protein Folding. (Instituto Juan March de estudios e investigaciones)
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Madrid,
Date of event: 1998
Sanz; J.M.; Jiménez; M.A.; Giménez-Gallego; G.1998.
- 113** **Title of the work:** Replication initiators involved in plasmid host range.
Name of the conference: Initiation of replication in prokaryotic extrachromosomal elements. (Instituto Juan March de estudios e investigaciones)
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Madrid,
Date of event: 1998
Maestro; B.; Sanz; J.M.; Díaz-Orejas; R.; Faelen; M.; Couturier; M.; Tresguerres; E.F.1998.
- 114** **Title of the work:** Host range determinants of the Pseudomonas plasmid pPS10.
Name of the conference: Evolution and Gene Transfer in Microorganisms. Société Belge de Microbiologie
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Leuven,
Date of event: 1997
Maestro; B.; Sanz; J.M.; Díaz-Orejas; R.; Fernández-Tresguerres; E.1997.
- 115** **Title of the work:** Host range determinants of the Pseudomonas plasmid pPS10.
Name of the conference: Molecular Biology and Ecology of Plasmid-Mediated Gene Transfer (European Science Foundation)
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Cuenca,
Date of event: 1997
Maestro; B.; Sanz; J.M.; Díaz-Orejas; R.; Fernández-Tresguerres; E.1997.
- 116** **Title of the work:** Native yeast ribosomal acidic protein YP2 α displays features of a 'molten globule' state.
Name of the conference: XIIth International Biophysics Congress
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Amsterdam, Holland
Date of event: 1996
Zurdo; J.; González; C.; Sanz; J.M.; Rico; M.; Ballesta; J.P.G.1996.
- 117** **Title of the work:** Relación estructura-función de diversos estados conformacionales del factor de crecimiento de fibroblastos ácido.
Name of the conference: Reunión de la Red Temática Nacional sobre Plegamiento, Estabilidad e Ingeniería de Proteínas.
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Tarazona,
Date of event: 1996



Sanz; J.M.; Giménez-Gallego; G.1996.

- 118** **Title of the work:** Yeast ribosomal proteins P1 and P2 fold in a different way. The structural basis for their distinct function
Name of the conference: 24th Meeting of The Federation of European Biochemical Societies.
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Barcelona,
Date of event: 1996
Zurdo; J.; Sanz; J.M.; Jiménez-Díaz; A.; Ballesta; J.P.G.1996.
- 119** **Title of the work:** Immobilization and single-step purification of fusion proteins using the choline-binding domain of pneumococcal murein hydrolases.
Name of the conference: 1st european meeting on molecular biology of pneumococcus.
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Toulouse,
Date of event: 1991
Sanz; J.M.1991.
- 120** **Title of the work:** Mutagénesis dirigida del centro activo de la lisozima codificada por el bacteriófago Cp-1 de neumococo.
Name of the conference: XIII Congreso Nacional de la Sociedad Española de Microbiología.
Geographical area: National
Type of participation: Participatory - poster
City of event: Salamanca,
Date of event: 1991
Sanz; J.M.; García; P.; García; J.L.1991.
- 121** **Title of the work:** Aplicaciones biotecnológicas de los dominios carboxilo-terminales de las peptidoglican-hidrolasas de neumococo y sus bacteriófagos.
Name of the conference: XVII Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: Oviedo,
Date of event: 1990
Sanz; J.M.; Sánchez-Puelles; J.M.; García; E.; García; J.L.1990.
- 122** **Title of the work:** Expresión de los dominios N-terminales de enzimas líticas de neumococo y sus bacteriófagos.
Name of the conference: XVII Congreso Nacional de la Sociedad Española de Bioquímica.
Geographical area: National
Type of participation: Participatory - poster
City of event: Oviedo,
Date of event: 1990
Sanz; J.M.; Díaz; E.1990.
- 123** **Title of the work:** Hiperproducción y estudios de dicroísmo circular de la enzima lítica codificada por el fago Cp-1 de neumococo.
Name of the conference: XII Congreso Nacional de la Sociedad Española de Microbiología.
Geographical area: National



Type of participation: Participatory - poster
City of event: Pamplona,
Date of event: 1989
Sanz; J.M.; García; J.L.; García; P. 1989.

Science Outreach activities

Title of the work: La resistencia de las bacterias a los antibióticos
Type of event: Report
Date of event: 2023
Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
García, P.; López, D.; San Millán, A.; Sanz, J.M.; Hermoso, J.A.. "Ciencia para las Políticas Públicas (Science 4 Policy)". Available on-line at: <<https://doi.org/10.20350/digitalCSIC/16394>>.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Sociedad Española de Biofísica (SBE)
End date: 2012
- 2 Committee title:** Conexión Nanomedicina CSIC
Start date: 2021
- 3 Committee title:** Member of the Biosafety Committee in the Centro de Investigaciones Biológicas Margarita Salas (CSIC)
Start date: 2018
- 4 Committee title:** Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Start date: 2006
- 5 Committee title:** Science4Policy reports (CSIC): "Bacterial antibiotic resistance"
- 6 Committee title:** Sociedad Española de Biotecnología (SEBIOT)



Organization of R&D activities

- 1** **Title of the activity:** JPIAMR Junior Researchers Online Workshop
Convening entity: Joint Programming Initiative on Antimicrobial Resistance (JPIAMR) **Type of entity:** State agency
Type of participation: Organiser
Start-End date: 29/06/2021 - 30/06/2021 **Duration:** 2 days
- 2** **Title of the activity:** III Jornadas "Y tú, ¿qué investigas?"
Convening entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Type of participation: Organiser
Nº assistants: 380
Start-End date: 06/10/2016 - 07/10/2016
- 3** **Title of the activity:** Coordinador de la Jornada sobre Mecanismos de Financiación de Transferencia de Tecnología
Geographical area: Regional
Convening entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City convening entity: Elche, Comunitat Valenciana, Spain
Start-End date: 12/07/2013 - 12/07/2013
- 4** **Title of the activity:** Miembro del comité organizador del congreso BIOTEC2012
Convening entity: SOCIEDAD ESPAÑOLA DE BIOTECNOLOGIA
City convening entity: Bilbao
Start-End date: 19/09/2012 - 21/09/2012
- 5** **Title of the activity:** Miembro del Comité Organizador de la II Reunión del grupo de Plegamiento y Estructura de Proteínas. San Juan (Alicante)
Type of activity: Congreso **Geographical area:** National
Start date: 03/2007
- 6** **Title of the activity:** Coordinador de las IV Jornadas de la Sociedad Española de Bioquímica y Biología Molecular "La Empresa Puedes Ser Tú"
Type of activity: Congreso **Geographical area:** National
Start date: 09/2006
- 7** **Title of the activity:** Miembro del Comité Organizador del XXIX Congreso Nacional de la Sociedad Española de Bioquímica y Biología Molecular
Type of activity: Congreso **Geographical area:** National
Start date: 09/2006
- 8** **Title of the activity:** Miembro del Comité Organizador de la III Reunión de la Red Temática Nacional de Estructura, Estabilidad e Ingeniería de Proteínas. Guardamar del Segura.
Type of activity: Congreso **Geographical area:** National
Start date: 11/1999

R&D management

- 1 Name of the activity:** Collaborator in the Division of Scientific and Technical Coordination, Evaluation and Monitoring. Manager of the scientific area: Biosciences and Biotechnology (BIO).
Type of management: Management of R&D&I actions and projects
Entity: Agencia Estatal de Investigación (Spain)
Start date: 01/01/2019 **Duration:** 2 years - 11 months
- 2 Name of the activity:** Member of reviewer panel for Ph.D. Fellowships program (Basque Government) (2014-2017)
Type of management: Evaluador de becas
Entity: Dirección de Política Científica- Gobierno Vasco **Type of entity:** Entidad autonómica
Start date: 16/10/2014 **Duration:** 3 years

Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Reviewer for Agence National de Recherche (ANR, France)
Start date: 2023
- 2 Performed tasks:** Reviewer of ERC Advanced Grants (UE)
Start date: 2022
- 3 Performed tasks:** Reviewer panel: Aquatic Pollutants Joint Transnational Call (EU)
Start date: 2020
- 4 Performed tasks:** Evaluador de la Agencia Nacional de Evaluación y Prospectiva (ANEP) (2001-2002, 2008-actualidad)
- 5 Performed tasks:** Evaluador de Proyectos de Excelencia de la Consejería de Innovación, Ciencia y Empresa de la Junta de Andalucía (2008)
- 6 Performed tasks:** Evaluador de Proyectos del Fondo para la Investigación Científica y Tecnológica (FONCYT) de Argentina (2009-actualidad)
- 7 Performed tasks:** Evaluador de la Agencia para la Calidad del Sistema Universitario de Castilla y León (2008, 2010)
- 8 Performed tasks:** Evaluador de proyectos de I+D del Dpto. de Educación Universidades e Investigación del Gobierno Vasco (2009-2010)
- 9 Performed tasks:** Evaluador de proyectos de I+D para empresas del Instituto Valenciano de Competitividad Empresarial (IVACE) de la Generalidad Valenciana (2015-actualidad)



- 10 Performed tasks:** Evaluador de proyectos de I+D para empresas del Instituto de la Mediana y Pequeña Industria Valenciana (IMPIVA) de la Generalidad Valenciana (2007-2012)

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Universidad Miguel Hernández **Type of entity:** University Research Institute
Faculty, institute or centre: Instituto Universitario de Biología Molecular y Celular
City of entity: Elche, Comunitat Valenciana, Spain
Start-End date: 08/01/2018 - 31/08/2018 **Duration:** 7 months - 23 days
Goals of the stay: Guest
Provable tasks: Estancia formativa
- 2 Entity:** Centre for Protein Engineering (University of Cambridge)
City of entity: Cambridge, United Kingdom
Start date: 1992 **Duration:** 2 years - 5 months
Name of programme: Estados intermedios en el plegamiento de proteínas
Goals of the stay: Post-doctoral

Editorial councils

Name of the editorial council: Member of the Editorial Board of "Microbial Biotechnology"
Start date: 2016 **Duration:** 9 years

Prizes, mentions and distinctions

- 1 Description:** Premio UMH 2016 a la competitividad investigadora
Awarding entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Conferral date: 2017
- 2 Description:** Premio UMH 2015 a la competitividad investigadora
Awarding entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Conferral date: 28/10/2016
- 3 Description:** Premio UMH 2014 a la competitividad investigadora
Awarding entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Conferral date: 04/09/2015
- 4 Description:** V Premio Laboratorios SALVAT al Mejor Proyecto de Investigación en Ciencias Biomédicas. "Diseño de inhibidores de las proteínas de unión a colina de Streptococcus pneumoniae y su aplicación como agentes terapéuticos".
Awarding entity: Fundación Salvat Inquifarma **Type of entity:** Foundation
Conferral date: 2006

Summary of other achievements

- 1** **Description of the achievement:** Course on Psychoemotional Formation #BIEM CSIC 360 (25 hours)
Accrediting entity: ASPY Prevención SLU
Conferral date: 27/02/2024
- 2** **Description of the achievement:** Reconocimiento de 6 periodos de actividad investigadora (Real Decreto 1086/1989, de 28 de agosto) (Sexenios).
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** ANECA
Conferral date: 2024
- 3** **Description of the achievement:** Nanotecnología y resistencia a antimicrobianos: combatiendo la "pandemia silenciosa" con pequeñas grandes armas
Accrediting entity: Ciencia en Pangea (Madrid)
Conferral date: 31/05/2023
- 4** **Description of the achievement:** Workshop on nanomedicine for diagnostics and therapy
Accrediting entity: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
Conferral date: 22/02/2022
- 5** **Description of the achievement:** Course on visualization of macromolecular structures with Chimera
Accrediting entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Conferral date: 23/11/2021
- 6** **Description of the achievement:** Reconocimiento de 1 periodo de actividad de transferencia tecnológica (2010-2016) (Real Decreto 1086/1989, de 28 de agosto) (Sexenios).
Accrediting entity: CNEAI
Conferral date: 2020
- 7** **Description of the achievement:** Reconocimiento de 6 periodos de actividad docente (Quinquenios).
Conferral date: 2018
- 8** **Description of the achievement:** Investigador principal de la solicitud del proyecto europeo "Nanostructures against infectious diseases" (NANODIS, Propuesta 604220-1), correspondiente al programa FP7-NMP-2013-LARGE-7 del 7º Programa Marco Europeo, con otros 21 socios europeos.
Conferral date: 2012
- 9** **Description of the achievement:** Solicitante del proyecto europeo OPTIDRUG de la Iniciativa de Medicamentos Innovadores, con otros 7 socios europeos
Conferral date: 2011
- 10** **Description of the achievement:** Coordinador del Grupo de Biotecnología de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM) (2009-2012)
- 11** **Description of the achievement:** Vocal de la Junta Directiva de la Sociedad Española de Biotecnología (SeBIOT) (2010- 2012)