



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.

Student Research fellowship in last courses of the Degree (1987-1988) at the Centro de Investigaciones Biológicas (CSIC). Degree in Chemistry (1988) and Ph.D. in Chemistry (1991) by Universidad Complutense Madrid (Spain). Predoctoral Fellowship from Spanish Ministry of Science at the CIB-CSIC under the supervision of Drs. José. L. García and Pedro García (1988-1991) with the topic of pneumococcal choline binding proteins. Postdoctoral stay in the University of Cambridge (U.K.) in the laboratory of Prof. Alan R. Fersht (1992-1994) with a Medical Research Council contract and an EMBO long-term Fellowship, studying equilibrium and kinetic intermediates of barnase. Reincorporation to CIB-CSIC (1994-1997) with a Gregorio Marañón Fellowship and a Postdoctoral Reincorporation Contract from Spanish Ministry of Science, in the laboratory of Dr. Guillermo Giménez, studying the folding intermediate states of fibroblast growth factor. Associate Professor (1997-2016) and Full Professor (2016-2018) in the Institute for Molecular and Cellular Biology (IBMC, now IDiBE) at the Miguel Hernández University (Elche, Spain). PI of the Protein Biotechnology Group. Topics: 1) Stability and folding of proteins; 2) Development of affinity tags for immobilization and purification of recombinant proteins; 3) Antimicrobials against *S. pneumoniae*. Our main findings are summarized as follows:

- First rational design of the accumulation in equilibrium of a kinetic protein folding intermediate.
 - Experimental method to measure protein folding constants in denaturing conditions
 - First published example of a protein unfolded by submicellar SDS.
 - First example of a $\beta\text{@}\alpha$ transition in peptides induced by micelles.
 - Demonstration of the involvement of the chromosomal protein DnaA in the host range of bacterial plasmids.
 - Discovery of new molecules with bactericidal effect on *S. pneumoniae*
 - Demonstration of multivalent display of such molecules on nanoparticles as effective ways to exponentially increase their effectivity.
- Elaboration of a system for specific immobilization of proteins on graphite electrodes.
 - Set up of a mini-bioreactor for decolorization of wastewaters from textile industries using PHA as support.
 - Set up of protein immobilization and affinity purification procedures on simple supports using choline-binding modules, that later became 2 marketed products.

Since 2018 I am Staff Researcher at the CIB-CSIC, leading two research lines: 1) Application of protein structure and nanotechnological procedures to fight antimicrobial resistance by *Streptococcus pneumoniae*, and 2) Improving the biotechnological potential of polyhydroxyalkanoates (PHAs).

Along my career, I have been PI of 17 research projects (including 1 EU project) and 5 contracts with companies, supervised 5 Doctoral theses and co-author of 63 scientific publications (most in Q1 journals;). I am co-inventor of 4 patents. My management work includes his recent appointment as Collaborator in the AEI-Agencia Estatal de Investigación (Bioscience and Biotechnology Area), and my membership in university accreditation boards



as well as in scientific societies boards. In 2006, together with Dr. Beatriz Maestro, I received the V Salvat Prize to the Best Research Project in Biomedical Sciences.



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): 6

Date of last research merit period (Sexenio CNEAI): 2013-2018 (Scientific periods) and 2020 (Technology transfer period)

Number of Ph. D. thesis supervised (last 10 years): 2

Number of cites: 2082 (Google Scholar)

Yearly average of cites in last 5 years (not including current year): 123

Total number of peer-reviewed publications: 65 (56 articles, 5 reviews, 1 letter, 3 book chapters)

Articles in JCR first quarter (Q1): 46 (75%)

h-index: 28 (Google Scholar)

Dissemination articles: 2

PI of competitive research projects: 17 (13 national, 1 EU, 3 regional)

PI of industrial contracts: 5

Number of patents: 5 (2 licensed)

Prizes: 1

Number of doctoral thesis supervised: 5

Supervisor of 4 master advanced research projects

Supervisor of 13 bachelor research projects

Pedagogical projects: 4

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Jesús Miguel Sanz Morales

Surname(s): **Sanz Morales**
 Name: **Jesús Miguel**
 ORCID: **0000-0002-4421-9376**
 ResearcherID: **B-2244-2008**
 Date of birth: **28/10/1965**
 Gender: **Male**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Castile-La Mancha**
 Contact province: **Madrid**
 City of birth: **Guadalajara**
 Contact address: **Centro de Investigaciones Biológicas Margarita Salas - Consejo Superior de Investigaciones Científicas**

Personal web page: https://www.researchgate.net/profile/Jesus_Sanz2

Current professional situation

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) **Educational Management (Yes/No):** No
City employing entity: Madrid, Community of Madrid, 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
Field of management activity: Public Research Body

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, Valencian Community, 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)

Educational Management (Yes/No): 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

Educational Management (Yes/No): 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



Education

University education

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

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

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Bioquímica y Biología Molecular
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

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 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
- 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: Biología molecular y celular
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: Bioquímica
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: Bioquímica
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: Bioquímica
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: Bioquímica
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: Biología molecular y celular
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: Biología molecular y celular
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: Máster en Biotecnología y Bioingeniería
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: Biología

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 Biología 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: Biología

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: 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

2 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

3 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

4 Project title: El reposicionamiento de fármacos como estrategia terapéutica frente a *Streptococcus pneumoniae*

Type of project: Work leading to an ASD

Entity: Universidad de Alcalá

Type of entity: University

Student: Laura Ortiz Miravalles



Date of reading: 2020

- 5** **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
- 6** **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
- 7** **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 Garcia-Donas
Entity: Universidad Miguel Hernández de Elche **Type of entity:** University
Student: Daniel Esteve Moreno
Date of reading: 2017
- 8** **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
- 9** **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
- 10** **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
- 11** **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



- 12** **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
- 13** **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
- 14** **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
- 15** **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
- 16** **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
- 17** **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
- 18** **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: María Fuentes Baile
Date of reading: 2014
- 19** **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

- 20** **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
- 21** **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
- 22** **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
- 23** **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

Educational or pedagogical publications, books, articles, etc.

- 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
Justification of material: 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

Justification of material: 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: 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: Software
Justification of material: 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, Basque Country, 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:** I Jornadas de Innovación Colaborativa JIC2017-UMH
Type of event: Workshop
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:** 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
- 2 Other relevant activities:** Reconocimiento de 6 periodos de actividad docente (Quinquenios).
End date: 2018
- 3 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
- 4 Other relevant activities:** Colaborador de la comisión redactora de la solicitud del Grado en Biotecnología por la Universidad Miguel Hernández (2008).
End date: 2008
- 5 Other relevant activities:** Miembro de la comisión redactora del III Plan Estratégico para la Calidad de la Universidad Miguel Hernández (2006).
End date: 2006
- 6 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
- 7 Other relevant activities:** Colaborador científico del área de Biotecnología
Entity where project took place: Agencia Estatal de Investigación (AEI)
Start date: 01/01/2019
- 8 Other relevant activities:** Vocal de la Comisión de Acreditación de Titulaciones del Gobierno Vasco (UNIBASQ)
Start date: 11/04/2018
- 9 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
- 10 Other relevant activities:** Evaluador de la Agencia Nacional de Evaluación de la Calidad y la Acreditación (ANECA) (Programa Academia) (2009-2011, 2015-actualidad)



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:** 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.
Nº 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 €
- 2 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.
Nº 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 €
- 3 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, Valencian Community, Spain
Name principal investigator (PI, Co-PI....): Sanz, J.M.
Nº 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 €



- 4** **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 Hernández de Elche **Type of entity:** University
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, Community of Madrid, Spain
Start-End date: 01/01/2011 - 31/07/2014
Participating entity/entities: Universidad Miguel Hernández
Total amount: 121.000 €
- 5** **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, Valencian Community, Spain
Start-End date: 01/01/2012 - 31/12/2013
Total amount: 50.700 €
- 6** **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 Hernández de Elche **Type of entity:** University
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, Community of Madrid, Spain
Start-End date: 2009 - 2012
Participating entity/entities: Universidad Miguel Hernández y 14 entidades más.
Total amount: 222.000 €
- 7** **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 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 **Type of entity:** Autonómico
City funding entity: Valencia, Valencian Community, Spain
Start-End date: 2010 - 2010
Participating entity/entities: Universidad Miguel Hernández
Total amount: 9.300 €



- 8** **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 €
- 9** **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 €
- 10** **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 €
- 11** **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 €



- 12** **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 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: 2005 - 2005
Participating entity/entities: Instituto de Biología Molecular y Celular. Universidad Miguel Hernández
Total amount: 3.700 €
- 13** **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 Hernández de Elche **Type of entity:** University
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 €
- 14** **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 Hernández de Elche **Type of entity:** University
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 €
- 15** **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 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: 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 €

- 16 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 €
- 17 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 €
- 18 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 €
- 19 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 €

- 20** **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 €
- 21** **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 €
- 22** **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, Community of Madrid, 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 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, Valencian Community, Spain
Start date: 21/06/2016 **Duration:** 6 months
Total amount: 15.528,71 €
- 3** **Name of the project:** LIPOENZYM - Línea 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, Valencian Community, 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, Valencian Community, 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, Catalonia, 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 **Type of entity:** Associations and Groups
EVALUACION NO DESTRUCTIVA
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: Antimicrobianos frente a patógenos del género Streptococcus

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

Nº of application: P202130070

Country of inscription: Spain

Date of register: 28/01/2021

Spanish patent: Yes

Operating aut.region/region: Spain

2 Title registered industrial property: Uso de un compuesto de fórmula (I) como bactericida frente a 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

3 Title registered industrial property: Dominios de afinidad a colina para mejorar la expresión, inmovilización y purificación de polipéptidos.

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>)



- 4 Title registered industrial property:** Procedimientos de separación de proteínas recombinantes en sistemas acuosos de dos fases
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
International non-EU patent: Yes **PCT 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>)
- 5 Title registered industrial property:** Procedimiento para la inmovilización y/o purificación en un solo paso de proteínas de fusión de interés biotecnológico.
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



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** 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.

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

Corresponding author: No

Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.56 **Journal in the top 25%:** Yes

Position of publication: 74 **No. of journals in the cat.:** 297
- 2** 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.

Type of production: Scientific paper

Corresponding author: No

Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 4.3 **Journal in the top 25%:** No

Position of publication: 89 **No. of journals in the cat.:** 314
- 3** 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.

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

Position of signature: 4

Total no. authors: 10 **Corresponding author:** No

Impact source: ISI **Category:** Biochemistry

Impact index in year of publication: 4.7 **Journal in the top 25%:** Yes

Position of publication: 58 **No. of journals in the cat.:** 299
- 4** 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.

Type of production: Scientific paper

Corresponding author: No

Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.56 **Journal in the top 25%:** Yes

Position of publication: 74 **No. of journals in the cat.:** 297

- 5** 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.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Impact index in year of publication: 4.1 **Journal in the top 25%:** Yes
Position of publication: 33 **No. of journals in the cat.:** 162
- 6** 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.
Type of production: Scientific paper **Format:** Journal
Position of signature: 6
Total no. authors: 7 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 4.9 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 61
- 7** Zamora-Carreras, H.; Maestro, B.; Sanz, J.M.*; Jiménez, M.A.*. Turncoat polypeptides: We adapt to our environment. *ChemBioChem.* 21, pp. 432 - 441. (Q2), 2020.
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 2.6 **Journal in the top 25%:** No
Position of publication: 30 **No. of journals in the cat.:** 51
- 8** 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: ISI **Category:** Biophysics
Impact index in year of publication: 3,7 **Journal in the top 25%:** No
Position of publication: 19 **No. of journals in the cat.:** 72
- 9** Roig-Molina, E.; Domenech, M.; Retamosa, M.de G.; Nacher-Vazquez, M.; Rivas, L.; Maestro, B.; García, P.; García, 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 **Format:** Journal
Position of signature: 9
Total no. authors: 9 **Corresponding author:** Yes
Impact source: ISI **Category:** Biophysics
Impact index in year of publication: 3.7 **Journal in the top 25%:** No
Position of publication: 19 **No. of journals in the cat.:** 72

- 10** 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 **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** Biotechnology & Applied Microbiology
Impact index in year of publication: 4.9 **Journal in the top 25%:** Yes
Position of publication: 22 **No. of journals in the cat.:** 162
- 11** 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 **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** Biotechnology and Applied Microbiology
Impact index in year of publication: 4.1 **Journal in the top 25%:** Yes
Position of publication: 33 **No. of journals in the cat.:** 162
- 12** 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 **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** Chemistry, multidisciplinary
Impact index in year of publication: 5.2 **Journal in the top 25%:** Yes
Position of publication: 37 **No. of journals in the cat.:** 172
- 13** Maestro, B.; Sanz, J.M.. Polyhydroxyalkanoate-associated phasins as phylogenetically heterogeneous, multipurpose proteins. *Microb. Biotech.*10, pp. 1323 - 1337. 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **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
- 14** 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: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **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
- 15** 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 **Format:** Journal

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 11,7

Position of publication: 11

Category: CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 163

Relevant results: doi: 10.1002/anie.201505700

- 16** 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

Format: Journal

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 5.8

Journal in the top 25%: Yes

Position of publication: 24

No. of journals in the cat.: 163

- 17** 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

Category: Microbiology

Impact source: ISI

Journal in the top 25%: Yes

Impact index in year of publication: 5,9

Position of publication: 16

No. of journals in the cat.: 123

- 18** 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

Format: Journal

Corresponding author: Yes

Impact source: ISI

Category: Biophysics

Impact index in year of publication: 4,4

Journal in the top 25%: Yes

Position of publication: 14

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.

- 19** 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

Format: Journal

Impact source: ISI

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Impact index in year of publication: 3.2

Journal in the top 25%: Yes

Position of publication: 8

No. of journals in the cat.: 56

- 20** 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

Format: Journal

Impact source: ISI



Impact index in year of publication: 3.7

Position of publication: 7

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.

- 21** 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: ISI

Impact index in year of publication: 1,6

Position of publication: 171

Format: Journal

Category: Science Edition - PHARMACOLOGY & PHARMACY

Journal in the top 25%: No

No. of journals in the cat.: 256

- 22** 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

Impact source: ISI

Impact index in year of publication: 4,2

Position of publication: 5

Format: Journal

Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 33

- 23** 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

Impact source: ISI

Impact index in year of publication: 6.17

Position of publication: 19

Format: Journal

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 154

- 24** 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

Impact source: ISI

Impact index in year of publication: 0.51

Position of publication: 21

Format: Journal

Category: Science Edition - CRYSTALLOGRAPHY

Journal in the top 25%: No

No. of journals in the cat.: 25

- 25** 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

Impact source: ISI

Format: Journal

Category: Science Edition - MICROBIOLOGY



Impact index in year of publication: 5.01
Position of publication: 19

Journal in the top 25%: Yes
No. of journals in the cat.: 114

- 26** 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: ISI

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

- 27** 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

Format: Journal

Impact source: ISI

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Impact index in year of publication: 2.94

Journal in the top 25%: No

Position of publication: 50

No. of journals in the cat.: 158

- 28** 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

Format: Journal

Impact source: ISI

Category: Science Edition - MICROBIOLOGY

Impact index in year of publication: 5.54

Journal in the top 25%: Yes

Position of publication: 14

No. of journals in the cat.: 107

- 29** 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

Format: Journal

Impact source: ISI

Category: Science Edition - CELL BIOLOGY

Impact index in year of publication: 6.14

Journal in the top 25%: Yes

Position of publication: 31

No. of journals in the cat.: 162

- 30** Hernandez-Rocamora, Victor M.; Maestro, Beatriz; de Waal, Bas; Morales, Maria; Garcia, Pedro; Meijer, E. W.; Merkx, 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

Format: Journal

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 11.83

Journal in the top 25%: Yes

Position of publication: 5

No. of journals in the cat.: 140



- 31** 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 **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 3.76 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 70
- 32** 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 **Format:** Journal
Impact source: ISI **Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Impact index in year of publication: 1.2 **Journal in the top 25%:** No
Position of publication: 103 **No. of journals in the cat.:** 144
- 33** 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: ISI **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
- 34** 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: ISI **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
- 35** 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: ISI **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
- 36** 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: ISI
Impact index in year of publication: 3.26
Position of publication: 19

Category: Science Edition - BIOPHYSICS
Journal in the top 25%: No
No. of journals in the cat.: 69

37 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
Impact source: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 3.40
Position of publication: 91

Journal in the top 25%: No

No. of journals in the cat.: 263

38 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: Scientific paper
Corresponding author: Yes

Format: Journal

39 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.22
Position of publication: 62

Journal in the top 25%: Yes

No. of journals in the cat.: 261

40 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: ISI

Format: Journal

Category: Science Edition - MICROBIOLOGY

Impact index in year of publication: 4.18
Position of publication: 12

Journal in the top 25%: Yes

No. of journals in the cat.: 84

41 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 6.58
Position of publication: 24

Journal in the top 25%: Yes

No. of journals in the cat.: 261

42 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 6.7

Journal in the top 25%: Yes

Position of publication: 27

No. of journals in the cat.: 266

- 43** 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

Format: Journal

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.06

Journal in the top 25%: Yes

Position of publication: 58

No. of journals in the cat.: 266

- 44** 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

Format: Journal

Impact source: ISI

Category: Science Edition - MICROBIOLOGY

Impact index in year of publication: 5.83

Journal in the top 25%: Yes

Position of publication: 7

No. of journals in the cat.: 82

- 45** 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

Format: Journal

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.22

Journal in the top 25%: Yes

Position of publication: 60

No. of journals in the cat.: 310

- 46** 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

Format: Journal

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.22

Journal in the top 25%: Yes

Position of publication: 60

No. of journals in the cat.: 310

- 47** 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

Format: Journal

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 5.5

Journal in the top 25%: Yes

Position of publication: 33

No. of journals in the cat.: 295

- 48** 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

Format: Journal

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY



Impact index in year of publication: 3.25
Position of publication: 69

Journal in the top 25%: Yes
No. of journals in the cat.: 295

Relevant results: Revista conocida actualmente como FEBS Journal

- 49** 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.22
Position of publication: 45

Journal in the top 25%: Yes
No. of journals in the cat.: 295

- 50** 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.62
Position of publication: 45

Journal in the top 25%: Yes
No. of journals in the cat.: 295

- 51** 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 3.25
Position of publication: 69

Journal in the top 25%: Yes
No. of journals in the cat.: 295

Relevant results: Revista conocida actualmente como FEBS Journal

- 52** 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: ISI

Format: Journal

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

- 53** 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: ISI

Format: Journal

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.62
Position of publication: 45

Journal in the top 25%: Yes
No. of journals in the cat.: 295

- 54** 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: ISI

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; 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: ISI

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

- 56** 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

Impact source: ISI

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

- 57** 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

Impact source: ISI

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

- 58** 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

Impact source: ISI

Impact index in year of publication: 6.09

Position of publication: 6

Format: Journal

Category: Science Edition - MICROBIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 81

- 59** 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

Impact source: ISI

Impact index in year of publication: 2.01

Format: Journal

Category: Science Edition - GENETICS & HEREDITY

Journal in the top 25%: No

**Position of publication:** 46**No. of journals in the cat.:** 103

- 60** 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: ISI **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
- 61** 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: ISI **Category:** Science Edition - BIOPHYSICS
Impact index in year of publication: 3.58 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 57
- 62** 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
- 63** 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
- 64** 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
- 65** 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: ISI **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:** 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.*
- 2** **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/>>.
- 3** **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.
- 4** **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.



- 5** **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.
- 6** **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.
- 7** **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 **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Santander,
Date of event: 27/08/2018
Organising entity: Universidad Internacional Menéndez Pelayo
Sanz, J. M. **Type of entity:** University
- 8** **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
Sanz, J. M. **Type of entity:** University
- 9** **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: Workshop **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
Sanz, J.M.

Type of entity: Autonomous Community of Madrid

10 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.

11 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.

12 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.

13 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.



14 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.

15 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.

16 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.

17 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.



- 18** **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.
- 19** **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.
- 20** **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.
- 21** **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.
- 22** **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.

- 23 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.

- 24 Title of the work:** Exploring the chameleon 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.

- 25 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.

- 26 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.



- 27** **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 **Reasons for participation:** Upon invitation talk
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.
- 28** **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.
- 29** **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.
- 30** **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.
- 31** **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.

32 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.

33 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.

34 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.,

35 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.

- 36** **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, Community of Madrid, Spain
Date of event: 28/05/2013
End date: 31/05/2013
Organising entity: Consejo Superior de Investigaciones Científicas e Instituto de Salud Carlos III **Type of entity:** State agency
Héctor Zamora; Jesús M. Sanz; M^a Angeles Jiménez.
- 37** **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.
- 38** **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.
- 39** **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.
- 40** **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.

41 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.; Merkx; M.; Sanz; J.M.2011.

42 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.

43 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.

44 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.

45 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.

- 46** **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.
- 47** **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.
- 48** **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.
- 49** **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.
- 50** **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.



- 51** **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.
- 52** **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: Workshop **Geographical area:** Local
Type of participation: Participatory - invited/keynote talk
City of event: Soria,
Date of event: 2008
Sanz; J.M.2008.
- 53** **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 Biología/ 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.
- 54** **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 Biología/ 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.
- 55** **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.
- 56** **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.; Merkx; M.; Sanz; J.M.2008.

57 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.; Merkx; M.; Sanz; J.M.2008.

58 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.

59 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.; Merkx; M.; Sanz; J.M.2008.

60 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.; Merkx; M. and Sanz; J.M.2007.

61 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.



- 62** **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.
- 63** **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.
- 64** **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.
- 65** **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.
- 66** **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.
- 67** **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.



- 68** **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.
- 69** **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.
- 70** **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.
- 71** **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.
- 72** **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.
- 73** **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.



- 74** **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.
- 75** **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.
- 76** **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.
- 77** **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.
- 78** **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.
- 79** **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.



- 80** **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.
- 81** **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.
- 82** **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.
- 83** **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.
- 84** **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.
- 85** **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.

86 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.

87 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.

88 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.

89 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.

90 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.

91 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.

92 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.

93 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.

94 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.

95 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.

96 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.



- 97** **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.
- 98** **Title of the work:** Hiperproducción y estudios de difracción 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.

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:** Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Start date: 2006
- 3** **Committee title:** Sociedad Española de Biotecnología (SEBIOT)

Organization of R&D activities

- 1** **Title of the activity:** III Jornadas "Y tú, ¿qué investigas?"
Convening entity: Universidad Miguel Hernández de **Type of entity:** University
Elche
Type of participation: Organiser
Nº assistants: 380
Start-End date: 06/10/2016 - 07/10/2016
- 2** **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 **Type of entity:** University
Elche
City convening entity: Elche, Valencian Community, Spain
Start-End date: 12/07/2013 - 12/07/2013



- 3** **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
- 4** **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
- 5** **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
- 6** **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
- 7** **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

Name of the activity: Miembro de tribunal evaluador del programa de Becas de Formación de Personal Investigador (2014-actualidad)
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:** Evaluador de la Agencia Nacional de Evaluación y Prospectiva (ANEP) (2001-2002, 2008-actualidad)
- 2** **Performed tasks:** Evaluador de Proyectos de Excelencia de la Consejería de Innovación, Ciencia y Empresa de la Junta de Andalucía (2008)
- 3** **Performed tasks:** Evaluador de Proyectos del Fondo para la Investigación Científica y Tecnológica (FONCYT) de Argentina (2009-actualidad)



- 4 Performed tasks:** Evaluador de la Agencia para la Calidad del Sistema Universitario de Castilla y León (2008, 2010)
- 5 Performed tasks:** Evaluador de proyectos de I+D del Dpto. de Educación Universidades e Investigación del Gobierno Vasco (2009-2010)
- 6 Performed tasks:** Evaluador de proyectos de I+D para empresas del Instituto Valenciano de Competitividad Empresarial (IVACE) de la Generalidad Valenciana (2015-actualidad)
- 7 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, Valencian Community, 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: Miembro del "Editorial Board" de la revista Microbial Biotechnology.
Start date: 2016

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:** 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
- 2** **Description of the achievement:** Reconocimiento de 5 periodos de actividad investigadora (Real Decreto 1086/1989, de 28 de agosto) (Sexenios).
Accrediting entity: CNEAI
Conferral date: 2018
- 3** **Description of the achievement:** Reconocimiento de 6 periodos de actividad docente (Quinquenios).
Conferral date: 2018
- 4** **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
- 5** **Description of the achievement:** Solicitante del proyecto europeo OPTIDRUG de la Iniciativa de Medicamentos Innovadores, con otros 7 socios europeos
Conferral date: 2011
- 6** **Description of the achievement:** Coordinador del Grupo de Biotecnología de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM) (2009-2012)
- 7** **Description of the achievement:** Vocal de la Junta Directiva de la Sociedad Española de Biotecnología (SeBIOT) (2010- 2012)