



Joaquín Rodríguez Morán

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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.

Born in Salamanca in 1957. PhD at University of Salamanca (USAL) in 1983 with Extraordinary Award, under the direction of Prof. Joaquín Pascual Teresa and Prof. Manuel Grande Benito. Post-doctoral degree at University of Munich in 1984, under the direction of Prof. Rolf Huisgen, on a project about Concerted Reactions. Second post-doctoral stay at University of Los Angeles, UCLA, in the group of Prof. Francois Diederich, on a topic of Molecular Recognition, which inspired me to start a new research line at University of Salamanca. Assistant Professor from 1986 in the Organic Chemistry Department at University of Salamanca (USAL) and Full Professor of Organic Chemistry at USAL since 1998.

The first research topics were Natural Products and Concerted Reactions, but since the last two decades the research has been focused in Molecular Recognition: synthesis of molecular receptors that associate organic compounds with the intention to obtain catalytic activity analogous to that of enzymes. This topic has allowed us to prepare molecular receptors that catalyze organic reactions. The presence of hydrogen bonds in the associate increase the reaction rate because they are stronger in the transition state than in the ground state. These molecular receptors have also enabled the development of fluorescent sensors, which are promising in the field of analysis and in addition many of them are enantioselective. They also allow the resolution of mixtures of amino acid derivatives. All this work has been published in the most prestigious journals (JACS, Angewandte, Chem. Commun. Org. Lett. etc.)

The search for activity analogous to that of enzymes has allowed us to begin a new research field with application in industrially important biofuels (Adv. Synth. Catal. 2011, Appl. Catal. B Environ. 2014), in which we have obtained remarkable results which have already been patented. The use of long chain sulfonic acids has made almost possible the industrialization of the procedure. Currently, we are developing promising small-molecule chymotrypsin mimics for transacylation reactions.

I am the current Organic Chemistry Department Director at University of Salamanca and also referee of ANEP (Agencia Nacional de Evaluación y Prospectiva).



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 “sexenios”:** 6. Period of the last research “sexenio” granted: 2012-2018.
- **Publication/Patents:** Co-author of 123 papers, most of them in Q1.
- **Citations:** 1637 (1366 without self-citations) and h-index = 21 (Web of Science, 24/05/2020)
- **Conference contributions:** More than 70 contributions.
- **Research projects:** I have participated in 8 research projects as PI for the last 10 years.
- **Students Supervision:** Currently: 1 PhD student, 4 Master students and 4 Final Degree students. 3 theses directed in the last 15 years.
- **Prizes/recognitions:** Ramiro de Maeztu (2015) by USAL.

**Joaquín Rodríguez Morán**

Surname(s): **Rodríguez Morán**
Name: **Joaquín**
DNI: **36018084S**
ORCID: **0000-0002-1925-986X**
ScopusID: **7402046313**
ResearcherID: **F-3105-2010**
Date of birth: **05/01/1957**
Gender: **Male**
Contact address: **Plaza Caídos, s/n**
Postcode: **37008**
Contact city: **Salamanca**
Land line phone: **662927215**
Email: **romoran@usal.es**

Current professional situation

Employing entity: Universidad de Salamanca

Department: Departamento de Química Orgánica, Facultad de Ciencias Químicas

Professional category: Catedrático de Universidad **Educational Management (Yes/No):** Yes

City employing entity: Salamanca, Castile and León, Spain

Phone: (0034) 923294481

Fax: (0034) 923294574

Email: romoran@usal.es

Start date: 15/11/1998

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 230600 - Organic chemistry

Performed tasks: Catedrático de la Universidad de Salamanca con impartición docente especializada en la rama de Química Orgánica, he desarrollado mi labor investigadora a lo largo de treinta años en los campos de los productos naturales, la química supramolecular y la organocatálisis.

Identify key words: Molecular recognition: structure and dynamics; Molecular recognition: catalysis; Molecular recognition: design and synthesis

Applicability in teaching and/or research: Reconocimiento Molecular, Reconocimiento Quiral, Enzimas Artificiales, Organocatálisis

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Salamanca	Profesor Contratado	04/09/1986
2	Universidad de Salamanca	Profesor Contratado	06/11/1984
3	Ludwig Maximilians Universität	Becario	30/09/1983
4	Universidad de Salamanca	Profesor Ayudante y Becario	01/10/1981

1



Employing entity: Universidad de Salamanca **Type of entity:** University
Department: Departamento de Química Orgánica, Facultad de Ciencias Químicas
City employing entity: Salamanca, Castile and León, Spain
Professional category: Profesor Contratado **Educational Management (Yes/No):** Yes
Phone: (0034) 923294481 **Fax:** (0034) 923294574
Start-End date: 04/09/1986 - 15/11/1998 **Duration:** 12 years - 2 months - 11 days
Type of contract: Civil servant
Dedication regime: Full time
Primary (UNESCO code): 230600 - Organic chemistry

2 **Employing entity:** Universidad de Salamanca **Type of entity:** University
Department: Departamento de Química Orgánica, Facultad de Ciencias Químicas
City employing entity: Salamanca, Castile and León, Spain
Professional category: Profesor Contratado **Educational Management (Yes/No):** Yes
Phone: (0034) 923294481 **Fax:** (0034) 923294574
Start-End date: 06/11/1984 - 03/09/1986 **Duration:** 1 year - 9 months - 27 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 230600 - Organic chemistry

3 **Employing entity:** Ludwig Maximilians Universität **Type of entity:** University
City employing entity: Munich, Germany
Professional category: Becario **Educational Management (Yes/No):** No
Start-End date: 30/09/1983 - 30/06/1984 **Duration:** 9 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 230600 - Organic chemistry

4 **Employing entity:** Universidad de Salamanca **Type of entity:** University
Department: Departamento de Química Orgánica, Facultad de Ciencias Químicas
City employing entity: Salamanca, Castile and León, Spain
Professional category: Profesor Ayudante y Becario **Educational Management (Yes/No):** Yes
Phone: (0034) 923294481 **Fax:** (0034) 923294574
Start-End date: 01/10/1981 - 30/09/1983 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 230600 - Organic chemistry



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: Salamanca, Castile and León, Spain

Degree awarding entity: Universidad de Salamanca **Type of entity:** University

Date of qualification: 1979

Average mark: Good

Prize: Special award for degree

Doctorates

Doctorate programme: Tesis Doctoral Química Orgánica

Degree awarding entity: Universidad de Salamanca **Type of entity:** University

City degree awarding entity: Salamanca, Castile and León, Spain

Date of degree: 1983

Thesis title: Componentes de Umbelíferas. Thapsia villosa L. var. villosa, Thapsia villosa L. var. minor, (Hoffmann. & Link) Coutinho

Thesis director: Joaquín de Pascual Teresa

Obtained qualification: Sobresaliente Cum Laude

Special doctorate award: Yes

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German		C1	A1	A1	B1
English		C1	C1	C1	C1

Teaching experience



General teaching experience

- 1** **Name of the course:** Química Orgánica Avanzada
University degree: Máster en Química Orgánica
Start date: 2011 **End date:** 2014
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 2** **Name of the course:** Química Orgánica Avanzada
University degree: Licenciatura en Química
Start date: 2012 **End date:** 2013
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 7,5
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 3** **Name of the course:** Determinación Estructural
University degree: Licenciatura en Química
Start date: 2011 **End date:** 2013
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 4** **Name of the course:** Mecanismos de las reacciones orgánicas
University degree: Licenciatura en Química
Start date: 2011 **End date:** 2013
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 5** **Name of the course:** Experimentación en Química Orgánica
University degree: Licenciatura en Química
Start date: 2010 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 4,5
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 6** **Name of the course:** Síntesis orgánica y productos naturales
University degree: Licenciatura en Química
Start date: 2007 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 4
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas



- 7** **Name of the course:** Química Orgánica
University degree: Licenciatura en Química
Start date: 2004 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 12
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 8** **Name of the course:** Introducción a la Experimentación en Química Orgánica
University degree: Licenciatura en Química
Start date: 2004 **End date:** 2010
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 7,5
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
- 9** **Type of teaching:** Official teaching
Name of the course: Experimentación en Química
Professional category: Catedrático de Universidad
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Grado en Ingeniería Química
Course given: Primero
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 10,5
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
Department: Química Orgánica
City of entity: Salamanca, Castile and León, Spain
Subject language: Spanish
- 10** **Type of teaching:** Official teaching
Name of the course: Química Orgánica III
Professional category: Catedrático de Universidad
Type of programme: Grado **Type of teaching:** In person theory
Type of subject: Obligatory
University degree: Grado en Química
Course given: Tercero
Type of hours/ ECTS credits: Credits
Entity: Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
Department: Química Orgánica
City of entity: Salamanca, Castile and León, Spain
Subject language: Spanish
- 11** **Type of teaching:** Official teaching
Name of the course: Química Orgánica III
Professional category: Catedrático de Universidad
Type of programme: Grado **Type of teaching:** In person theory
Type of subject: Obligatory

**University degree:** Grado en Química**Course given:** Tercero**Type of hours/ ECTS credits:** Credits**Entity:** Universidad de Salamanca**Type of entity:** University**Faculty, institute or centre:** Facultad de Ciencias Químicas**Department:** Química Orgánica**City of entity:** Salamanca, Castile and León, Spain**Subject language:** Spanish**12 Type of teaching:** Official teaching**Name of the course:** Química Orgánica III**Professional category:** Catedrático de Universidad**Type of programme:** Grado**Type of teaching:** In person theory**Type of subject:** Obligatory**University degree:** Grado en Química**Course given:** Tercero**Type of hours/ ECTS credits:** Credits**Entity:** Universidad de Salamanca**Type of entity:** University**Faculty, institute or centre:** Facultad de Ciencias Químicas**Department:** Química Orgánica**City of entity:** Salamanca, Castile and León, Spain**Subject language:** Spanish**13 Type of teaching:** Official teaching**Name of the course:** Química Orgánica III**Professional category:** Catedrático de Universidad**Type of programme:** Grado**Type of teaching:** In person theory**Type of subject:** Obligatory**University degree:** Grado en Química**Course given:** Tercero**Type of hours/ ECTS credits:** Credits**Entity:** Universidad de Salamanca**Type of entity:** University**Faculty, institute or centre:** Facultad de Ciencias Químicas**Department:** Química Orgánica**City of entity:** Salamanca, Castile and León, Spain**Subject language:** Spanish**Experience supervising doctoral thesis and/or final year projects****1 Project title:** Química supramolecular. Organocatalizadores y receptores con estructura de agujero oxianiónico**Type of project:** Doctoral thesis**Entity:** Universidad de Salamanca**Type of entity:** University**Student:** Omayra Hernández Rubio**Obtained qualification:** Sobresaliente cum laude**Date of reading:** 2019**2 Project title:** Organocatalizadores en los que se simula un agujero oxianiónico**Co-director of thesis:** Luis Simón Victoria Alcázar**Entity:** Universidad de Salamanca**Type of entity:** University**Student:** Ángel Luis Fuentes de Arriba



Obtained qualification: Sobresaliente cum laude

Date of reading: 2014

European doctorate: Yes

3 Project title: Receptores benzofuránicos para la discriminación quiral de derivados de aminoácidos

Type of project: Minor thesis

Co-director of thesis: Luis Simón Laura M. Monleón

Student: Leire de Juan Fernández

Obtained qualification: Sobresaliente cum laude

Date of reading: 2013

4 Project title: Receptores carbazólicos con funciones sulfonamida para la asociación de aniones

Type of project: Minor thesis

Co-director of thesis: Victoria Alcázar Montero

Entity: Universidad de Salamanca

Type of entity: University

Student: María García Turiel

Obtained qualification: Sobresaliente cum laude

Date of reading: 2013

5 Project title: Nuevos procedimientos para la síntesis de 2-hidroxinitroestirenos, iminas y benzoxazinas derivados de salicilaldehídos

Type of project: Proyecto Fin de Máster

Co-director of thesis: Esther Caballero Salvador

Entity: Universidad de Salamanca

Type of entity: University

Student: Víctor Tena Pérez

Obtained qualification: Sobresaliente

Date of reading: 2013

6 Project title: Reconocimiento quiral de derivados de alfa-aminoácidos

Type of project: Proyecto fin de máster

Co-director of thesis: Laura Marcos Monleón Luis Simón Rubio

Entity: Universidad de Salamanca

Type of entity: University

Student: Leire de Juan Fernández

Obtained qualification: Matrícula de Honor

Date of reading: 2013

7 Project title: Organocatalizadores con estructura de agujero oxianiónico para reacciones aldólicas intra e intermoleculares

Type of project: Minor thesis

Co-director of thesis: Luis Simón Rubio

Entity: Universidad de Salamanca

Type of entity: University

Student: Omayra Hernández Rubio

Obtained qualification: Sobresaliente cum laude

Date of reading: 2012

8 Project title: Estudio sobre organocatalizadores con estructura de agujero oxianiónico para reacciones de Diels-Alder

Type of project: Proyecto Fin de Máster

Co-director of thesis: Luis Simón Rubio

Entity: Universidad de Salamanca

Type of entity: University

Student: Omayra Hernández Rubio



Obtained qualification: Matrícula de Honor

Date of reading: 2012

9 Project title: Organocatalizadores con esqueleto de cromano

Type of project: Minor thesis

Co-director of thesis: Luis Simón Rubio

Entity: Universidad de Salamanca

Type of entity: University

Student: David García Seisdedos

Obtained qualification: Sobresaliente cum laude

Date of reading: 2010

10 Project title: Prolinamidas e imidazolidinonas en condensaciones aldólicas enantioselectivas

Type of project: Minor thesis

Co-director of thesis: Luis Simón Rubio

Entity: Universidad de Salamanca

Type of entity: University

Student: Ángel Luis Fuentes de Arriba

Obtained qualification: Sobresaliente cum laude

Date of reading: 2010

11 Project title: Sensores Fluorescentes con Esqueleto de Xanteno

Co-director of thesis: César Raposo Funcia

Entity: Universidad de Salamanca

Type of entity: University

Student: Francisco Muñoz Muñiz

Obtained qualification: Sobresaliente cum laude

Date of reading: 2007

Quality recognition: Yes

12 Project title: Enzimas Artificiales Enantioselectivos para Adiciones de Michael

Type of project: Doctoral thesis

Student: Luis Simón

Obtained qualification: Sobresaliente cum laude

Date of reading: 2005

13 Project title: Receptores Enantioselectivos con Esqueleto de Tetrahydrobenzoxanteno para Derivados de Amino Acidos

Type of project: Doctoral thesis

Entity: Universidad de Salamanca

Student: A.I. Oliva González

Obtained qualification: Sobresaliente Cum Laude

Date of reading: 2003

14 Project title: Síntesis y Estudio de Receptores Enantioselectivos para Amino Acidos

Type of project: Doctoral thesis

Entity: Universidad de Salamanca

Student: J. Vicente Hernández

Obtained qualification: Sobresaliente Cum Laude

Date of reading: 2002

15 Project title: Síntesis de receptores moleculares con actividad catalítica en adiciones de Michael

Type of project: Minor thesis

Entity: Universidad de Salamanca

Type of entity: University



Student: F. Muñoz Muñiz

Obtained qualification: Sobresaliente Cum Laude

Date of reading: 2001

- 16** **Project title:** Diseño y Síntesis de Receptores Moleculares neutros para Carboxilatos. Reconocimiento Enantioselectivo de Compuestos Bioactivos
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: S. González García
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2001
- 17** **Project title:** Diseño y Síntesis de Receptores Moleculares Basados en un Esqueleto de Xantona con Actividad Catalítica en Adiciones de Michael
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: L.M. Simón Rubio
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2000
- 18** **Project title:** Síntesis de un Receptor Molecular con Esqueleto de Benzoxanteno
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: A.I. Oliva González
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2000
- 19** **Project title:** Estudio de Receptores Destinados al Transporte Enantioselectivo a Través de Membranas Líquidas
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: M. Delgado García-Catalán
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1999
- 20** **Project title:** Receptores Abióticos para el Reconocimiento Molecular de Carboxilatos con Heteroátomos en Posición alfa
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: M.F. De la Torre Guerra
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1999
- 21** **Project title:** Reconocimiento quiral de carboxilatos con un receptor macrocíclico
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: A. Tejeda Utero
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1998



- 22** **Project title:** Síntesis de un Receptor Enantioselectivo para Diácidos con un Espaciador de Binaftilo
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: J.M. Rodríguez Gómez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1998
- 23** **Project title:** Receptores Con Esqueleto de Cromano con Aplicaciones Catalíticas y en Reconocimiento Molecular
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: M. Almaraz González
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1998
- 24** **Project title:** Reconocimiento Enantioselectivo de Ácidos y Amidas con Receptores Derivados de la Xantona
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: M. Martín Gómez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1998
- 25** **Project title:** Reconocimiento quiral de diácidos con un receptor basado en el espirobifluoreno
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: J. Vicente Hernández
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1997
- 26** **Project title:** Receptores moleculares para el ácido dibutilmalónico. Actividad catalítica descarboxilativa
Type of project: Doctoral thesis
Entity: Universidad de Salamanca **Type of entity:** University
Student: María Luisa Mussons Zúñiga
Obtained qualification: APTO "cum laude" por unanimidad
Date of reading: 15/03/1996
- 27** **Project title:** Receptores Moleculares para el Ácido Dibutilmalónico. Actividad descarboxilativa
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: M.L. Mussons Zúñiga
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1996
- 28** **Project title:** Síntesis de Receptores Moleculares Activos en Reacciones de Descarboxilación y Adición Nucleofílica
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: César Alberto Raposo Funcia
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1996



- 29** **Project title:** Síntesis de receptores moleculares para sustratos tetraédricos
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: A. Berrocal Rodrigo
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1995
- 30** **Project title:** Síntesis de receptores para sales sódicas y potásicas de carboxiltos.
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: NIEVES PÉREZ PAYÁN
Obtained qualification: Apto cum laude
Date of reading: 30/11/1994
- 31** **Project title:** Receptores para lactonas y estudio de su actividad catalítica
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: M. Almaraz González
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1994
- 32** **Project title:** Síntesis de un receptor en forma de U, con estructura de 7,7-dioxo-5,6,7,7,9-tetrahidro-14-óxa-7-triadibenzo(a,j) antracen-2,12-dibutilsulfonamida
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: M.F. De la Torre Guerra
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1994
- 33** **Project title:** Síntesis de Receptores Moleculares con Actividad Catalítica
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: M. Crego Calama
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1994
- 34** **Project title:** Preparación de receptores para aminoácidos con reconocimiento quiral
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: A. Partearroyo Martín
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1993
- 35** **Project title:** Receptores del ácido dibutilmalónico con actividad descarboxilativa
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: A. Luengo Prado
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1993



- 36** **Project title:** Síntesis de enzimas artificiales. Estudio de la síntesis del 2.11-diamino-1-2,9-10-tetrahidrobenzofenantreno
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: E. García Gutierrez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1991
- 37** **Project title:** Síntesis de enzimas artificiales. Estudio de un receptor de ureina y urea basado en la tioxantona
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: César Alberto Raposo Funcia
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1991
- 38** **Project title:** Síntesis de enzimas artificiales. Estudio de un receptor de ureina, urea y formamidas
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: J.J. Marugán Sánchez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1991
- 39** **Project title:** Reactividad de ciclohexanonas con sustituyentes metiltio axiales y con el átomo de azufre en distintos grados de oxidación
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: M.J. Sanz Madruga
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1990
- 40** **Project title:** Síntesis de enzimas artificiales. Estudio de un receptor de ureina
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: M. Crego Calama
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1990
- 41** **Project title:** Dianiones derivados del Acido Pirúvico
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: I. Tapia Hernández
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1989
- 42** **Project title:** Iluros Tiocarbonílicos. Síntesis de Deshidrobiotina
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: V. Alcázar Montero
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1989



- 43** **Project title:** Reactividad del S-metiluro del bencilditiooxalato de metilo. Aproximación a la síntesis de biotina
Type of project: Doctoral thesis
Entity: Universidad de Salamanca
Student: J. Valls Santos
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1989
- 44** **Project title:** Reactividad del S-metiluro de la bencilditiooxalamida
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: R. Olabarrieta La Fuente
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1988
- 45** **Project title:** Síntesis de 1,7-óxido de bisabol-10-eno
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: M.L. Hernández Díez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1987
- 46** **Project title:** Componentes de Centaurea ornata Will.
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: JUAN JOSÉ NAVARRO SÁNCHEZ
Obtained qualification: Sobresaliente por unanimidad
Date of reading: 28/10/1986
Type of entity: University
- 47** **Project title:** Síntesis de 2-feniltio-2-sulfoleno y 2-p-toliltio-2-sulfoleno. Estudio de su ractividad
Type of project: Minor thesis
Entity: Universidad de Salamanca
Student: I. Tapia Hernández
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 1986

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:** Catalizadores para transacciones que imitan el centro activo de la quimotripsina
Entity where project took place: Junta de Castilla y León **Type of entity:** -
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Type of participation: Principal investigator
Start-End date: 01/07/2017 - 31/12/2019
Total amount: 35.000 €
- 2** **Name of the project:** Transacilasas artificiales para la obtención de biocombustibles a partir de aceites de bajo coste
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Type of participation: Principal investigator
Start-End date: 01/01/2017 - 31/12/2017
Total amount: 10.000 €
- 3** **Name of the project:** Catálisis Supramolecular: Obtención de biocombustibles y reacciones enantioselectivas
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Type of participation: Principal investigator
Start-End date: 01/01/2016 - 31/12/2016
Total amount: 4.500 €
- 4** **Name of the project:** Síntesis asimétrica de feromonas de insectos y análogos útiles en el control de plagas mediante química de silicio y catalizadores biomiméticos enantioselectivos
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 7
Type of participation: Principal investigator
Start-End date: 01/01/2015 - 31/12/2015
Total amount: 5.000 €



- 5** **Name of the project:** Captura post-combustión de CO₂: diseño y aplicación de materiales avanzados
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Local
Degree of contribution: Researcher
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Spain
Name principal investigator (PI, Co-PI....): Jorge Cuéllar Antequera
Nº of researchers: 12
Type of participation: Team member
Start-End date: 08/07/2014 - 31/12/2014 **Duration:** 5 months
Total amount: 4.500 €
- 6** **Name of the project:** Catálisis Supramolecular: Obtención de Biocombustibles y Reacciones Enantioselectivas
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Local
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Spain
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 11
Type of participation: Principal investigator
Start-End date: 01/01/2013 - 31/12/2013 **Duration:** 1 year
Total amount: 9.500 €
- 7** **Name of the project:** Síntesis de nuevos catalizadores con aplicación en la producción de biodiésel y otras reacciones de transesterificación
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jorge Cuéllar Antequera
Nº of researchers: 5
Funding entity or bodies: Junta de Castilla y León **Type of entity:** Junta de Castilla y León
City funding entity: Valladolid, Castile and León, Spain
Type of participation: Team member
Start-End date: 2011 - 2013 **Duration:** 3 years
Total amount: 29.000 €
- 8** **Name of the project:** Organotransacilasas para la obtención de biodiésel y otros organocatalizadores
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 5
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio de Ciencia e Innovación
City funding entity: Madrid, Community of Madrid, Spain
Type of participation: Principal investigator
Start-End date: 2010 - 2012 **Duration:** 1 year
Total amount: 10.890 €



- 9** **Name of the project:** Modular design of organocatalysts by combination of subunits effective in complementary catalytic mechanisms
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 2
Funding entity or bodies: Commission of the European Communities
Type of participation: Principal investigator
Start-End date: 2009 - 2011 **Duration:** 3 years
Total amount: 45.000 €
- 10** **Name of the project:** Reconocimiento Molecular, Resolución de mezclas racémicas. Sensores fluorescentes
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 7
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio de Ciencia e Innovación
City funding entity: Madrid, Community of Madrid, Spain
Type of participation: Principal investigator
Start-End date: 2005 - 2008 **Duration:** 3 years
Total amount: 69.020 €
- 11** **Name of the project:** Síntesis de quimiosensores fluorescentes para la detección selectiva de sustancias biológicamente relevantes. Sensor fluorogénico para el neurotransmisor glutamato
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Cruz Caballero Salvador
Funding entity or bodies: Junta de Castilla y León **Type of entity:** Junta de Castilla y León
City funding entity: Valladolid, Castile and León, Spain
Type of participation: Team member
Start-End date: 2005 - 2008 **Duration:** 3 years
Total amount: 12.600 €
- 12** **Name of the project:** Reconocimiento Molecular: Receptores Fluorescentes como Sensores para Moléculas Farmacológicamente activas. Resolución de Mezclas Racémicas de α -Aminoácidos
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Cruz Caballero Salvador
Nº of researchers: 6
Funding entity or bodies: Junta de Castilla y León **Type of entity:** Junta de Castilla y León
City funding entity: Valladolid, Castile and León, Spain
Type of participation: Team member
Start-End date: 2002 - 2005 **Duration:** 3 years
Total amount: 17.070 €



- 13** **Name of the project:** Reconocimiento Molecular: Resolución de Mezclas Racémicas, Catalizadores Enantioselectivos, Sensores
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 6
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio de Ciencia e Innovación
City funding entity: Madrid, Community of Madrid, Spain
Type of participation: Principal investigator
Start-End date: 2002 - 2005 **Duration:** 3 years
Total amount: 57.500 €
- 14** **Name of the project:** Receptores Moleculares con Actividad Catalítica en Reacciones de Hidrólisis Aminolisis y Adiciones de Michael
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán
Nº of researchers: 4
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio de Ciencia e Innovación
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 1999 - 2002 **Duration:** 3 years
Total amount: 36.000 €
- 15** **Name of the project:** Receptores para Reconocimiento Quiral de Carboxilatos con Interés Biológico y Farmacéutico
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Cruz Caballero Salvador
Nº of researchers: 4
Funding entity or bodies: Junta de Castilla y León **Type of entity:** Junta de Castilla y León
City funding entity: Valladolid, Castile and León, Spain
Start-End date: 1999 - 2002 **Duration:** 3 years
Total amount: 12.100 €
- 16** **Name of the project:** Synthetic Receptors for Stereoselective Recognition of Chiral Anions: Design , Synthesis and Evaluation of Structure-Enantioseparation Relationship
Entity where project took place: Universidad de Salamanca **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ivan Stibor
Nº of researchers: 6
Funding entity or bodies: Unión Europea COST ACTION D11
Start-End date: 1999 - 2002 **Duration:** 3 years
- 17** **Name of the project:** Síntesis de Sustancias Anti-Sida y Plaguicidas Biodegradables
Entity where project took place: Universidad de Salamanca **Type of entity:** University



Name principal investigator (PI, Co-PI....): Alfonso Fernández Mateos

Nº of researchers: 6

Funding entity or bodies:

Junta de Castilla y León

Type of entity: Junta de Castilla y León

City funding entity: Valladolid, Castile and León, Spain

Start-End date: 1997 - 1999

Duration: 3 years

18 Name of the project: Nuevos Catalizadores para Reacciones Orgánicas Basadas en Reconocimiento Molecular.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán

Nº of researchers: 6

Type of participation: Co-ordinator

Name of the programme: Dirección General de Investigación Científica y Técnica

Code according to the funding entity: DGICYT PB 95-0951

Start-End date: 1996 - 1999

Total amount: 55.894,13 €

Dedication regime: Full time

19 Name of the project: Resolución de Mezclas de Aminoácidos Mediante Reconocimiento Quiral.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Regional

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Joaquín Rodríguez Morán

Nº of researchers: 6

Type of participation: Co-ordinator

Name of the programme: Junta de Castilla y León

Start-End date: 1994 - 1996

Dedication regime: Full time

20 Name of the project: Síntesis y Evaluación Farmacológica de Sustancias Bioactivas: Aminoácidos, beta-Lactamas, Limonoides, Ampullicinas, Kaurenoides

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Manuel Grande Benito

Nº of researchers: 6

Type of participation: Others

Name of the programme: Dirección General de Investigación Científica y Técnica

Code according to the funding entity: DGICYT PB 92-0286



Start-End date: 1993 - 1995

Dedication regime: Full time

21 Name of the project: Síntesis de beta-Lactamas Quirales: Inhibidores Enzimáticos.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Manuel Grande Benito

Nº of researchers: 6

Type of participation: Others

Name of the programme: Junta de Castilla y León

Code according to the funding entity: SA 0704/90

Start-End date: 1992 - 1994

Dedication regime: Full time

22 Name of the project: Síntesis de Enzimas Artificiales: Estudio de un Receptor de Urea e Hidrolasas.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Manuel Grande Benito

Nº of researchers: 6

Type of participation: Others

Name of the programme: Dirección General de Investigación Científica y Técnica

Code according to the funding entity: DGICYT PB 89-0392

Start-End date: 1990 - 1993

Dedication regime: Full time

23 Name of the project: Aplicación de la Espectrometría de Masas al Análisis Orgánico: Aceites Esenciales. Estructura de la Thapsuina.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Manuel Grande Benito

Nº of researchers: 6

Type of participation: Others

Name of the programme: Iberduero

Start-End date: 1990 - 1991

Dedication regime: Full time

24 Name of the project: Reguladores de la Germinación Vegetal y otros Metabolitos de Umbelíferas.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Regional

Degree of contribution: Researcher



Entity where project took place: Universidad de Salamanca
Type of entity: University
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Manuel Grande Benito
Nº of researchers: 6
Type of participation: Others
Name of the programme: Junta de Castilla y León
Code according to the funding entity: SA 0704/90
Start-End date: 1990 - 1991
Dedication regime: Full time

25 Name of the project: Desarrollo Sintético de Dianiones del Ácido Pirúvico.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Joaquín de Pascual Teresa
Nº of researchers: 6
Type of participation: Others
Name of the programme: Caja de Ahorros y Monte de Piedad de Salamanca
Start-End date: 1988 - 1989
Dedication regime: Full time

26 Name of the project: Síntesis de Tiadiazoles por Reacción de Diazometano con Cloruros de Tiocarbonatos.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Salamanca **Type of entity:** University
City of entity: Salamanca, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Joaquín de Pascual Teresa
Nº of researchers: 6
Type of participation: Others
Name of the programme: Caja de Ahorros y Monte de Piedad de Salamanca
Start-End date: 1987 - 1988
Dedication regime: Full time

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

Name of the project: Synthesis of ranitidine and sodium cromoglicate for ALMU S.A. Salamanca.
Concession date: 1987-1990.



Results

Industrial and intellectual property

Title registered industrial property: Derivados de ácido sulfónico para síntesis de biodiésel

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Joaquín Rodríguez Morán; Jorge Cuéllar Antequera; Ángel Luis Fuentes de Arriba

Nº of application: P201130945

Country of inscription: Spain

Date of register: 2011

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** María G Turiel; José J. Garrido González; Luis Simón; Francisca Sanz; Anna M. Lithgow; Joaquín R. Morán; Ángel L. Fuentes de Arriba; Victoria Alcázar. Highly Enantioselective Extraction of Phenylglycine by a Chiral Macrocyclic Receptor Based on Supramolecular Interactions. Organic Letters. 22 - 3, ACS, 07/02/2020. Available on-line at: <<https://pubs.acs.org/doi/10.1021/acs.orglett.9b04379>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Manuel De la Torre; José L. Gómez Botran; Elías Olivera; Francisco Bermejo; Joaquín Rodríguez Morán; José Manuel Luengo. Histamine catabolism in Pseudomonas putida U: Identification of the genes, catabolic enzymes and regulators. Environmental Microbiology. 20 - 5, pp. 1828 - 1841. John Wiley and Sons, 22/03/2018.
Type of production: Scientific paper **Format:** Journal
- 3** Omayra Hernández Rubio; Sara del Mazo Borrego; Laura Marcos Monleón; Luis Simón Rubio; Álvaro Gacho Temprano; Joaquín Rodríguez Morán. A cleft type receptor which combines an oxyanion hole with electrostatic interactions. Organic and Biomolecular Chemistry. 15, pp. 4571 - 4578. Royal Chemical Society, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 4** Omayra Hernández Rubio; Rachid Taouil Hammouti; Francisco Muñoz Muñiz; Laura Marcos Monleón; Luis Simón Rubio; Francisca Sanz González; Joaquín Rodríguez Morán. A molecular receptor selective for zwitterionic alanine. Organic and Biomolecular Chemistry. 15, pp. 477 - 485. Royal Chemical Society, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 5** Ángel Luis Fuentes de Arriba; Omayra Hernández Rubio; Luis Simón Rubio; Victoria Alcázar Montero; Laura Marcos Monleón; Francisca Sanz González; Joaquín Rodríguez Morán. Study of a new 'chiral proton' organocatalyst with hydrolase activity: application in azlactone racemic dynamic resolution. Tetrahedron Asymmetry. 28, pp. 819 - 823. 2017.
Type of production: Scientific paper **Format:** Journal



- 6** Luis Simón; Omayra Hernández Rubio; Laura Marcos Monleón; Victoria Alcazar; Francisca Sanz; Cesar Alberto Raposo; Joaquín Rodríguez Morán. A bio-inspired enantioselective small-molecule artificial receptor for beta adrenergic agonists and antagonists and its application for enantioselective extraction. *Chemical Communication*. 52, pp. 12582 - 12585. Royal Society of Chemistry, 28/09/2016.
Type of production: Scientific paper **Format:** Journal
- 7** Álvaro Gacho Temprano; Laura Marcos Monleón; Omayra Hernández Rubio; Luis Simón Rubio; Asunción Barbero Pérez; Francisca Sanz González; Joaquín Rodríguez Morán. A highly selective receptor for zwitterionic proline. *Organic and Biomolecular Chemistry*. 14, pp. 1325 - 1331. Royal Chemical Society, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 8** Francisco Gómez Herrero; Omayra Hernández Rubio; Laura Marcos Monleón; Ángel Fuentes de Arriba; Luis Simón Rubio; Joaquín Rodríguez Morán. A molecular receptor for zwitterionic phenylalanine. *Organic and Biomolecular Chemistry*. 14, pp. 3906 - 3914. Royal Chemical Society, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 9** Leire de Juan Fernández; Ángel Fuentes de Arriba; Laura Marcos Monleón; Omayra Hernández Rubio; Victoria Alcázar Montero; Luis Simón Rubio; Joaquín Rodríguez Morán. An Enantioselective Benzofuran-Based Receptor for Dinitrobenzoyl-Substituted Amino Acids. *European Journal of Organic Chemistry*. pp. 1541 - 1547. Wiley, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 10** Victoria Alcázar Montero; Luis Simón Rubio; Francisca Sanz; Laura Marcos Monleón; Ángel L. Fuentes de Arriba; Omayra Hernández Rubio. Bifunctional organocatalysts based on a carbazole scaffold for the synthesis of the Hajos-Wiechert and Wieland Miescher ketones. *Tetrahedron*, 71, pp. 1297 - 1303. 2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 11** Victoria Alcázar Montero; Luis Simón Rubio; Laura Marcos Monleón; Omayra Hernández Rubio; Angel Gómez Herrero; Angel L. Fuentes de Arriba. Chiral recognition with a benzofuran receptor which mimics an oxyanion hole. *Org. Biomol. Chem.* 13, pp. 493 - 501. 2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 12** Alberto Díez-Varga; Patricia Val; Francisco Pulido; Alfonso González-Ortega; Héctor Barbero; Asunción Barbero. Efficient access to polysubstituted tetrahydrofurans by electrophilic cyclization of vinylsilyl alcohols. *RSC Adv.* 5, pp. 49541 - 49551. 2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 13** Víctor Tena Pérez; Ángel L. Fuentes de Arriba; Laura Marcos Monleón; Luis Simón Rubio; Omayra Hernández Rubio; Francisca Sanz González; Joaquín Rodríguez Morán. A high yield procedure for the preparation of 2-hydroxynitrostyrenes. Synthesis of imines and tetracyclic 1,3-benzoxazines. *Eur. J. Org. Chem.* pp. 3242 - 3248. 2014.
Type of production: Scientific paper **Format:** Journal
- 14** Alexandra Alegría; Ángel Luis Fuentes de Arriba; Joaquín Rodríguez Morán; Jorge Cuéllar Antequera. Biodiesel production using 4-Dodecylbenzenesulfonic acid as catalyst. *Applied Catalysis B: Environmental*. 160-161, pp. 743 - 756. 2014.



Type of production: Scientific paper

Format: Journal

- 15** Joaquín Rodríguez Morán; Luis Simón Rubio; Víctor Tena Pérez; Ángel Luis Fuentes de Arriba; Omayra Hernández Rubio; Laura Marcos Monleón; Francisca Sanz González. Preparation of a cyclic boramide from salicylaldehyde, ammonium acetate and sodium borohydride. *Tetrahedron*. 10.1016/j.tet.2014.09.053, 2014.

Type of production: Scientific paper

Format: Journal

- 16** Omayra Hernández Rubio; Ángel Luis Fuentes de Arriba; Francisca Sanz González; Francisco Muñoz Muñoz; Joaquín Rodríguez Morán. 4,5-Dibromo-2,7-di-tert-butyl-9,9-dimethyl-9H-thioxanthene. *Acta Crystallographica Section E*. E68, pp. o1814. Wiley, 2012.

Type of production: Scientific paper

Format: Journal

- 17** Joaquín Rodríguez Morán; Ángel Luis Fuentes de Arriba; María García Turiel; Luis Manuel Simón Rubio; Francisca Sanz González; Juan Francisco Boyero Benito; Victoria Alcázar; Francisco Muñoz. Sulfonamide carbazole receptors for anion recognition. *Organic and Biomolecular Chemistry*. 9, pp. 8321 - 8327. 14/09/2011. ISSN 1477-0520

Type of production: Scientific paper

Format: Journal

- 18** Ángel Luis Fuentes de Arriba; Luis Simón Rubio; Victoria Alcázar Montero; Jorge Cuéllar Antequera; Patricia Lozano Martínez; Joaquín Rodríguez Morán. A Twitchell Reagent Revival: Biodiesel Generation from Low Cost Oils. *Advanced Synthesis & Catalysis*. 353, pp. 2681 - 2690. Wiley, 2011.

Type of production: Scientific paper

Format: Journal

- 19** Francisco Muñoz Muñoz; Victoria Alcázar; Francisca Sanz González; Luis Manuel Simón Rubio; Ángel Luis Fuentes de Arriba; César Alberto Raposo Funcia; Joaquín Rodríguez Morán. A Xanthene-Benzimidazole Receptor with Multiple H-Bond Donors for Carboxylic Acids. *European Journal of Organic Chemistry*. 2010/32, pp. 6179 - 6185. 01/09/2010. ISSN 1434-193X

Type of production: Scientific paper

Format: Journal

- 20** Ángel Luis Fuentes de Arriba; David García Seisdedos; Luis Manuel Simón Rubio; Victoria Alcázar; César Alberto Raposo Funcia; Joaquín Rodríguez Morán. Synthesis of Monoacylated Derivatives of 1,2-Cyclohexanediamine. Evaluation of their Catalytic Activity in the Preparation of Wieland-Miescher Ketone. *Journal of Organic Chemistry*. 75/23, pp. 8303 - 8306. 11/08/2010. ISSN 0022-3263

Type of production: Scientific paper

Format: Journal

- 21** Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; César Alberto Raposo Funcia; Victoria Alcázar; Francisca Sanz González; Francisco Muñoz Muñoz; Joaquín Rodríguez Morán. Imidazolidinone Intermediates in Prolinamide-Catalyzed Aldol Reactions. *Organic and Biomolecular Chemistry*. 8/13, pp. 2979 - 2985. 12/05/2010. ISSN 1477-0520

Type of production: Scientific paper

Format: Journal

- 22** Luis Simón Rubio; Francisco Muñoz Muñoz; Ángel Luis Fuentes de Arriba; Victoria Alcázar Montero; César Raposo Funcia; Joaquín Rodríguez Morán. Synthesis of a chiral artificial receptor with catalytic activity in Michael additions and its chiral resolution by a new methodology. *Organic & Biomolecular Chemistry*. 8, pp. 1763 - 1768. 2010.

Type of production: Scientific paper

Format: Journal

- 23** Francisco Muñoz Muñoz; Luis Manuel Simón Rubio; Victoria Alcázar; César Alberto Raposo Funcia; Fuentes de Arriba Angel; Joaquín Rodríguez Morán. A Highly Enantioselective Receptor for Carbamoyl Lactic Acid. *European Journal of Organic Chemistry*. 31, pp. 5350 - 5354. 11/2009. ISSN 1434-193X

Type of production: Scientific paper

Format: Journal

- 24** Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; César Alberto Raposo Funcia; Victoria Alcázar; Joaquín Rodríguez Morán. Proline imidazolidinones and enamines in Hajos-Wiechert and Wieland-Miescher ketone synthesis. *Tetrahedron*. 65/25, pp. 4841 - 4845. 20/06/2009. ISSN 0040-4020
Type of production: Scientific paper **Format:** Journal
- 25** Francisco Muñoz Muñiz; Victoria Alcázar Montero; Luis Simón Rubio; César Raposo Funcia; Emilio Calle Martín; Joaquín Rodríguez Morán. Daxabe - A Xanthene-Based Fluorescent Sensor for 3,5-Dinitrobenzoic Acid and Anions. *European Journal of Organic Chemistry*. pp. 1009 - 1015. 2009.
Type of production: Scientific paper **Format:** Journal
- 26** Francisco Muñoz Muñiz; Luis Manuel Simón Rubio; Silvia Sáez Pérez; César Alberto Raposo Funcia; Joaquín Rodríguez Morán. Selective acylation of 4,5-diamino-9,9'-dimethylxanthene through an aggregation effect. *Tetrahedron letters*. 49, pp. 790 - 793. 28/01/2008. ISSN 0040-4039
Type of production: Scientific paper **Format:** Journal
- 27** Francisco Muñoz Muñiz; Luis Simón Rubio; Silvia Sáez Pérez; César Raposo Funcia; Victoria Alcázar Montero; Joaquín Rodríguez Morán. A Fluorescent Sensor for Dinitrobenzoic Acid Based on a Cyanuric Acid and Xanthene Skeleton. *Sensors*. pp. 1637 - 1644. 2008.
Type of production: Scientific paper **Format:** Journal
- 28** Luis Simón Rubio; Francisco Muñoz Muñiz; Silvia Sáez Pérez; César Raposo Funcia; Joaquín Rodríguez Morán. Enzyme Mimics for Michael Additions with Novel Proton Transport Groups. *European Journal of Organic Chemistry*. pp. 2397 - 2403. 2008.
Type of production: Scientific paper **Format:** Journal
- 29** Francisco Muñoz Muñiz; Victoria Alcázar Montero; Ángel Luis Fuentes de Arriba; Luis Simón Rubio; César Raposo Funcia; Joaquín Rodríguez Morán. Thiourea versus the oxyanion hole as a double H-bond donor. *Tetrahedron Letters*. 49, pp. 5050 - 5052. 2008.
Type of production: Scientific paper **Format:** Journal
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- 107** U. Eichenauer; R. Huisgen; A. Mitra; Joaquín Rodríguez Morán. The Reaction of Aliphatic Diazocompounds with Highly Electrophilic Ethylene Derivatives. Heterocycles. 25, pp. 129 - 132. 1987. ISSN 0385-5414
Type of production: Scientific paper **Format:** Journal
- 108** A. Mitra; R. Huisgen; Joaquín Rodríguez Morán. Ubersaschung bei der Umsetzung des Dicyanfumarsaure-dimethylesters mit Diazomethan. Chemische berichte-recueil. 120, pp. 159 - 169. 1987. ISSN 0009-2940
Type of production: Scientific paper **Format:** Journal
- 109** J. De Pascual; José María Hernández Hernández; Joaquín Rodríguez Morán; Manuel Grande Benito. 12-Hydroxytovarol and Derivatives from Thapsia villosa var. minor. Phytochemistry. 25, pp. 1167 - 1170. 1986. ISSN 0031-9422
Type of production: Scientific paper **Format:** Journal
- 110** J. De Pascual; M.A. Villaseco; José María Hernández Hernández; Joaquín Rodríguez Morán; Julio González Urones; Manuel Grande Benito. Complex acetylenes from the roots of Ferula communis. Planta medica. 52, pp. 458 - 462. 1986. ISSN 0032-0943
Type of production: Scientific paper **Format:** Journal



- 111** L. De Pascual; Joaquín Rodríguez Morán; Alfonso Fernández Mateos; Manuel Grande Benito. Hemiacetalic Thapsane Derivatives from *Thapsia villosa* var. *minor*. *Phytochemistry*. 25, pp. 703 - 709. 1986. ISSN 0031-9422
Type of production: Scientific paper **Format:** Journal
- 112** J. De Pascual; Joaquín Rodríguez Morán; Alfonso Fernández Mateos; Manuel Grande Benito. Non- Acetalic Thapsanes Sesquiterpenoids from *Thapsia villosa* var. *minor*. *Phytochemistry*. 25, pp. 1171 - 1174. 1986. ISSN 0031-9422
Type of production: Scientific paper **Format:** Journal
- 113** J. De Pascual; Joaquín Rodríguez Morán; J.J. Blanco; Alfonso Fernández Mateos; Manuel Grande Benito. Synthesis of the new Diterpene Alcohols Magydardiendiol and Magydardientriol. *Anales de química-international edition*. 82 C, pp. 183 - 186. 1986. ISSN 1130-2283
Type of production: Scientific paper **Format:** Journal
- 114** R. Huisgen; A. Mitra; Joaquín Rodríguez Morán. The Astounding Reaction of Diazomethane with Dimethyl 2,3-dicyanofumarate. *Heterocycles*. 24, pp. 2429 - 2436. 1986. ISSN 0385-5414
Type of production: Scientific paper **Format:** Journal
- 115** J. De Pascual; Joaquín Rodríguez Morán; Manuel Grande Benito. (8R, 14S)-8-Seneciolyoxy-14,15-Epoxythapsan-14-ol, a New Sesquiterpenoid from *Thapsia villosa* var. *minor*. A 2D-NMR study. *Chemistry letters*. pp. 865 - 868. 1985. ISSN 0366-7022
Type of production: Scientific paper **Format:** Journal
- 116** J. De Pascual; A. Arias; José María Hernández Hernández; Joaquín Rodríguez Morán; Manuel Grande Benito. Helmanticine, a Phenylpropanoid from *Thapsia villosa*. *Phytochemistry*. 24, pp. 1773 - 1778. 1985. ISSN 0031-9422
Type of production: Scientific paper **Format:** Journal
- 117** J. De Pascual; Joaquín Rodríguez Morán; José María Hernández Hernández; Manuel Grande Benito. Phenyl Propanoids and other Derivatives from *Thapsia villosa*. *Phytochemistry*. 24, pp. 2071 - 2074. 1985. ISSN 0031-9422
Type of production: Scientific paper **Format:** Journal
- 118** Joaquín Rodríguez Morán; R. Huisgen; I. Kalwinski. Thiobenzophenone and Diazomethane. *Tetrahedron letters*. 26, pp. 1849 - 1852. 1985. ISSN 0040-4039
Type of production: Scientific paper **Format:** Journal
- 119** J. De Pascual; Joaquín Rodríguez Morán; José María Hernández Hernández. Tovarol and Other Germacrene Derivatives from *Thapsia villosa*. *Phytochemistry*. 24, pp. 1779 - 1783. 1985. ISSN 0031-9422
Type of production: Scientific paper **Format:** Journal
- 120** Joaquín Rodríguez Morán; R. Huisgen. Tropothione and Diazomethane; Revision and new Approach. *Tetrahedron letters*. 26, pp. 1057 - 1060. 1985. ISSN 0040-4039
Type of production: Scientific paper **Format:** Journal
- 121** J. De Pascual; María Concepción Grande Benito; Joaquín Rodríguez Morán; Manuel Grande Benito. A Revised Structure of Diterpenoid Magydardienediol. *Chemistry letters*. pp. 247 - 250. 1984. ISSN 0366-7022
Type of production: Scientific paper **Format:** Journal
- 122** R. Huisgen; C. Fulka; I. Kalwinski; L. Xingya; Joaquín Rodríguez Morán; A. Proebstl. Recent Developments of the Chemistry of Thiocarbonyl Ylides. *Bulletin des sociétés chimiques belges*. 93, pp. 511 - 532. 1984. ISSN 0037-9646
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** A molecular receptor selective for zwitterionic alanine
Name of the conference: XXXVI Reunión Bienal Real Sociedad Española de Química
Type of event: Conference
Type of participation: 'Participatory - poster
Geographical area: National
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Sitges, Catalonia, Spain
Date of event: 26/06/2017
End date: 30/06/2017
Omayra Hernández Rubio; Rachid Taouil Hammouti; Francisco Muñoz Muñiz; Laura Marcos Monleón; Luis Simón Rubio; Francisca Sanz González; Joaquín Rodríguez Morán.
- 2** **Title of the work:** Organocatalysts with a benzofuran skeleton
Name of the conference: 5ª reunión de la Red de Catálisis Asimétrica
City of event: Palma de Mallorca, Balearic Islands, Spain
Date of event: 02/10/2014
End date: 03/10/2014
- 3** **Title of the work:** Resolution of the racemic mixture of a benzofuran derivative
Name of the conference: XXV Reunión Bienal de Química Orgánica de la Real Sociedad Española de Química
Type of event: Conference
Type of participation: Participatory - oral communication
Geographical area: National
Reasons for participation: Review before acceptance
City of event: Alicante, Spain
Date of event: 04/06/2014
End date: 06/06/2014
Omayra Hernández Rubio; Ángel Luis Fuentes de Arriba; Laura Marcos Monleón; Luis Simón Rubio; Joaquín Rodríguez Morán.
- 4** **Title of the work:** Organocatalizadores con estructura de agujero oxianiónico para reacciones de Diels-Alder
Name of the conference: X Simposio de Investigadores Jóvenes Sigma-Aldrich
Type of event: Conference
Type of participation: 'Participatory - poster
Geographical area: National
Reasons for participation: Review before acceptance
City of event: Madrid, Spain
Date of event: 06/11/2013
End date: 09/11/2013
Omayra Hernández Rubio; Víctor Tena Pérez; Laura Marcos Monleón; Ángel Luis Fuentes de Arriba; Joaquín Rodríguez Morán.
- 5** **Title of the work:** Kinetics of the synthesis of biodiesel catalyzed by an alkylbenzenesulphonic acid
Name of the conference: XXXIV Reunión Bienal Real Sociedad Española de Química
Type of event: Conference
Type of participation: 'Participatory - poster
Geographical area: National
Reasons for participation: Review before acceptance
City of event: Santander, Spain



Date of event: 15/09/2013

End date: 18/09/2013

Alexandra Alegría; Ángel Luis Fuentes; Joaquín Rodríguez Morán; Jorge Cuéllar.

- 6** **Title of the work:** Sulfonamide carbazoles as versatile reagents in molecular recognition and organocatalysis

Name of the conference: 4th Euchems Chemistry Congress

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Praga (REPÚBLICA CHECA), Czech Republic

Date of event: 26/08/2012

Joaquín Rodríguez Morán; Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; Victoria Alcázar; Omayra Hernández Rubio; María García Turiel.

- 7** **Title of the work:** Biomimetic organocatalysts derived from carbazole for the synthesis of the Hajos-Wiechert and Wieland-Miescher ketones

Name of the conference: XXIV Reunión Bienal de Química Orgánica de la Real Sociedad Española de Química

Geographical area: National

Type of participation: 'Participatory - poster

City of event: DONOSTIA-SAN SEBASTIAN, Spain

Date of event: 11/07/2012

Joaquín Rodríguez Morán; Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; Victoria Alcázar; Omayra Hernández Rubio; Laura Marcos Monleón.

- 8** **Title of the work:** New sulphonic acid-based organocatalysts for triglycerides transesterification

Name of the conference: XXIV Reunión Bienal de Química Orgánica

Geographical area: National

Type of participation: 'Participatory - poster

City of event: DONOSTIA-SAN SEBASTIAN, Spain

Date of event: 11/07/2012

Joaquín Rodríguez Morán; Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; Francisco Muñiz; Victoria Alcázar; Jorge Cuellar Antequera; Omayra Hernández Rubio.

- 9** **Name of the conference:** 4ª Jornadas de la Red CASI (Red española de catálisis asimétrica)

Type of event: Workshop

Geographical area: National

Type of participation: Participatory - others

Reasons for participation: Upon invitation

City of event: Palma de Mallorca, Spain

Date of event: 2012

End date: 2012

Joaquín Rodríguez Morán.

- 10** **Title of the work:** Obtención de biodiésel mediante ácidos sulfónicos lipófilos

Name of the conference: XXXIII Reunión Bienal de la Real Sociedad Española de Química

Geographical area: National

Type of participation: 'Participatory - poster

City of event: VALENCIA, Spain

Date of event: 25/07/2011

Joaquín Rodríguez Morán; Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; Victoria Alcázar; Jorge Cuellar Antequera.



- 11** **Title of the work:** Study of the acid organocatalyzed transesterification of triglycerides to biodiesel by response surface methodology
Name of the conference: 1st International Congress on Catalysis for Biorefineries
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Torremolinos, Spain
Date of event: 2011
End date: 2011
Patricia Lozano Martínez; Ángel Luis Fuentes de Arriba; Victoria Alcázar Montero; Luis Simón Rubio; Joaquín Rodríguez Morán.
- 12** **Title of the work:** Avances sobre catálisis supramolecular
Name of the conference: I Semana de Divulgación Científica en Química e Ingeniería Química
Geographical area: Others
Type of participation: 'Participatory - poster
City of event: SALAMANCA, Spain
Date of event: 16/11/2010
Joaquín Rodríguez Morán; Luis Manuel Simón Rubio; Ángel Luis Fuentes de Arriba.
- 13** **Title of the work:** Prolinamidas, imidazolidinonas y ciclohexanodimainas en condensaciones aldólicas enantioselectivas
Name of the conference: XXII Reunión Bienal de Química Orgánica
Geographical area: National
Type of participation: 'Participatory - poster
City of event: MURCIA, Spain
Date of event: 16/06/2010
Joaquín Rodríguez Morán; Luis Manuel Simón Rubio; Victoria Alcázar; Francisco Muñoz Muñiz; Ángel Luis Fuentes de Arriba; David García Seisdedos.
- 14** **Title of the work:** Enzimas Artificiales
Name of the conference: I Semana de Divulgación Científica en Química e Ingeniería Química
Type of event: Conference
Geographical area: Local
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Salamanca, Spain
Date of event: 2010
End date: 2010
Ángel Luis Fuentes de Arriba; Luis Simón Rubio; Joaquín Rodríguez Morán.
- 15** **Title of the work:** Estudios sobre condensaciones aldólicas enantioselectivas
Name of the conference: 3ª Jornadas de la Red CASI (Red española de catálisis asimétrica)
Type of event: Workshop
Geographical area: National
Type of participation: Participatory - invited/keynote talk
Reasons for participation: Upon invitation
City of event: Palma de Mallorca, Spain
Date of event: 2010
End date: 2010
Joaquín Rodríguez Morán.



- 16** **Title of the work:** Imidazolidinone intermediates in the prolinamide catalyzed aldol condensations.
Name of the conference: 10th Tetrahedron symposium
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Paris (FRANCIA), France
Date of event: 23/06/2009
Ángel Luis Fuentes de Arriba; Luis Manuel Simón Rubio; Joaquín Rodríguez Morán.
- 17** **Title of the work:** Claves de la Reacción Aldólica Catalizada por Prolinamidas
Name of the conference: XXXII Reunión Bienal de la Real Sociedad Española de Química
Type of event: Conference
Geographical area: National
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Oviedo, Spain
Date of event: 2009
End date: 2009
Ángel Luis Fuentes de Arriba; Luis Simón Rubio; Victoria Alcázar Montero; Joaquín Rodríguez Morán.
- 18** **Title of the work:** Estudio de nuevos organocatalizadores en reacciones aldólicas enantioselectivas
Name of the conference: VI Simposio de investigadores jóvenes SIGMA-ALDRICH
Type of event: Conference
Geographical area: National
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 2009
End date: 2009
Ángel Luis Fuentes de Arriba; Luis Simón Rubio; David García Seisdedos; Victoria Alcázar Montero; Joaquín Rodríguez Morán.
- 19** **Title of the work:** Molecular receptors with catalytic activities in Michael additions to acrolein Derivatives
Name of the conference: Conference on supramolecular approaches to catalysis
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Barcelona, Spain
Date of event: 2008
End date: 2008
Francisco Muñoz Muñiz; Silvia Sáez Pérez; Luis Simón Rubio; Joaquín Rodríguez Morán.
- 20** **Title of the work:** Receptores basados en acridonas como sensores fluorescentes de aniones
Name of the conference: XXI Reunión Bienal de Química Orgánica
Geographical area: National
Type of participation: 'Participatory - poster
City of event: VALLADOLID, Spain
Date of event: 18/09/2006
Silvia Sáez Pérez; Francisco Muñoz Muñiz; Maria Teresa Blázquez; Luis Manuel Simón Rubio; Joaquín Rodríguez Morán.
- 21** **Title of the work:** Síntesis y diseño por métodos computacionales de enzimas artificiales
Geographical area: National
Type of participation: 'Participatory - poster



City of event: VALLADOLID, Spain

Date of event: 2006

Silvia Sáez; Luis Simón; Francisco Muñoz; M Blázquez; Joaquín Rodríguez Morán.

22 Title of the work: Enantioselective recognition with xanthene molecular receptor an asymmetric catalysis

Name of the conference: 5th Spanish Italian Symposium on Organic Chemistry

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: SANTIAGO DE COMPOSTELA, Spain

Date of event: 10/09/2005

Luis Manuel Simón Rubio; Ana Isabel Oliva; Francisco Muñoz Muñoz; Silvia Sáez Pérez; Germán Alexander López; Joaquín Rodríguez Morán.

23 Title of the work: The aggregation of xanthone receptors

Name of the conference: 5th Spanish Italian Symposium on Organic Chemistry

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: SANTIAGO DE COMPOSTELA, Spain

Date of event: 10/09/2005

Luis Manuel Simón Rubio; Ana Isabel Oliva; Francisco Muñoz Muñoz; Silvia Sáez Pérez; Germán Alexander López; Joaquín Rodríguez Morán.

24 Title of the work: Receptores moleculares con actividad catalítica y asistencia quiral en reacciones de adición de Michael a lactamas insaturadas

Name of the conference: XX Reunión Bienal de Química Orgánica

Geographical area: National

Type of participation: 'Participatory - poster

City of event: ZARAGOZA, Spain

Date of event: 09/06/2004

Luis Manuel Simón Rubio; Ana Isabel Oliva; Francisco Muñoz Muñoz; Silvia Sáez Pérez; Germán Alexander López; Joaquín Rodríguez Morán.

25 Title of the work: Enantioselective Recognition with Xanthene Molecular Receptors and Asymmetric Catalysis

Name of the conference: Xth Spanish-Italian Symposium on Organic Chemistry

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: SANTIAGO DE COMPOSTELA, Spain

Date of event: 2004

A.I. Oliva; L. Simón Rubio; F. Muñoz Muñoz; César Alberto Raposo Funcia; S. Saéz; A. López; Joaquín Rodríguez Morán.

26 Title of the work: The aggregation of xanthone receptors

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: SANTIAGO DE COMPOSTELA, Spain

Date of event: 2004

G. A. López; Ana Isabel Oliva; Luis Simón; Francisco Muñoz; Silvia Sáez; César Raposo; Joaquín Rodríguez Morán.



- 27** **Title of the work:** Aminopyridine-Benzoxanthene Enantioselective Receptors for Sulfonylamino Acids
Name of the conference: Synthetic Receptors 2003
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Lisboa (PORTUGAL), Portugal
Date of event: 14/10/2003
Ana Isabel Oliva; Francisco Muñoz Muñoz; José Vicente Hernández; Luis Manuel Simón Rubio; Silvia Sáez Pérez; Joaquín Rodríguez Morán.
- 28** **Title of the work:** Catalizadores enantioselectivos basados en reconocimiento molecular para reacciones de adición de Michael de pirrolidina a lactamas insaturadas
Name of the conference: XXIX Reunión Bienal de la Real Sociedad Española de Química
Geographical area: National
Type of participation: 'Participatory - poster
City of event: MADRID, Spain
Date of event: 09/07/2003
Luis Manuel Simón Rubio; José Vicente Hernández; Ana Isabel Oliva; Francisco Muñoz Muñoz; Joaquín Rodríguez Morán.
- 29** **Title of the work:** Reconocimiento enantioselectivo de amino ácidos con un receptor basado en unidades de xantona
Name of the conference: XXIX Reunión Bienal de la Real Sociedad Española de Química
Geographical area: National
Type of participation: 'Participatory - poster
City of event: MADRID, Spain
Date of event: 09/07/2003
Francisco Muñoz Muñoz; José Vicente Hernández; Ana Isabel Oliva; Luis Manuel Simón Rubio; Joaquín Rodríguez Morán.
- 30** **Title of the work:** Reconocimiento enantioselectivo de sulfonil-amino ácidos con un receptor que combina un esqueleto de tetrahydrobenzoxanteno con aminopiridinas
Name of the conference: XXIX Reunión Bienal de la Real Sociedad Española de Química
Geographical area: National
Type of participation: 'Participatory - poster
City of event: MADRID, Spain
Date of event: 09/07/2003
Ana Isabel Oliva; Francisco Muñoz Muñoz; José Vicente Hernández; Luis Manuel Simón Rubio; Joaquín Rodríguez Morán.
- 31** **Title of the work:** Chiral Recognition of Benzyloxycarbonyl Aminoacids with a Benzoxanthene
Name of the conference: 3th Spanish-Italian Symposium on Organic Chemistry
Geographical area: European Union
Type of participation: 'Participatory - poster
City of event: Benalmadena, Spain
Date of event: 02/09/2000
Ana Isabel Oliva; Luis Manuel Simón Rubio; Cruz Caballero Salvador; Joaquín Rodríguez Morán.
- 32** **Title of the work:** Enzyme-Like Catalysis of Michael Additions with Xanthone Based Receptors
Name of the conference: 3th Spanish-Italian Symposium on Organic Chemistry
Geographical area: European Union
Type of participation: 'Participatory - poster
City of event: Benalmadena, Spain



Date of event: 02/09/2000

Luis Manuel Simón Rubio; Ana Isabel Oliva; Cruz Caballero Salvador; Joaquín Rodríguez Morán.

- 33** **Title of the work:** Macrocyclic receptors for chiral recognition of carboxylate with biological and pharmaceutical interest
Name of the conference: Euresco conference. Supramolecular chemistry. Catalysis and reactivity
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Urbino (ITALIA), Italy
Date of event: 2000
M.F. Torre; S. González; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.
- 34** **Title of the work:** Reconocimiento molecular selectivo mediante un receptor abiótico de carboxilatos con alfa heteroátomos y de alfa-cetocarboxilatos
Name of the conference: XVII Reunión bienal de química orgánica
Geographical area: National
Type of participation: 'Participatory - poster
City of event: Coruña (La), Spain
Date of event: 2000
M.F. Torre; S. González; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.
- 35** **Title of the work:** Binding propeties of an abiotic receptor for complexing carboxylates wigh heteroatoms in alfa-position
Name of the conference: Annual meeting of the royal society of chemistry
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Edimburgo (Escocia) (REINO UNIDO), United Kingdom
Date of event: 1999
M.F. Torre; S. González; E.G. Campos; Cruz Caballero Salvador; Joaquín Rodríguez Morán.
- 36** **Title of the work:** Chromenone and Xanthone Receptors for Chiral Recognition
Name of the conference: COST Action D11
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Praga (REPÚBLICA CHECA), Czech Republic
Date of event: 1999
Joaquín Rodríguez Morán.
- 37** **Title of the work:** Some Initial Steps Towards Receptors with Catalytic Activity
Name of the conference: COST Action D11
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Praga (REPÚBLICA CHECA), Czech Republic
Date of event: 1999
Joaquín Rodríguez Morán.
- 38** **Title of the work:** Diseño de receptores enantioselectivos basados en enlaces de hidrógeno
Name of the conference: XVII Reunión de química orgánica
Geographical area: National
Type of participation: Participatory - invited/keynote talk
City of event: LOGROÑO, Spain



Date of event: 1998

M. Martín; M. Almaraz; J.V. Hernández; M.C. Tejeda; Cruz Caballero Salvador; Joaquín Rodríguez Morán.

- 39 Title of the work:** Strong binding of carboxylate anions by dichromenone-urea receptors in highly competitive media

Name of the conference: First cost D11. Workshop on supramolecular chemistry

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Perugia (ITALIA), Italy

Date of event: 1998

S. González; M.F. Torre; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.

- 40 Title of the work:** Strong binding of carboxylate anions by dichromenone-urea receptors in highly competitive media

Name of the conference: Nato advanced research workshop. Supramolecular science

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Lerici (ITALIA), Italy

Date of event: 1998

S. González; M.F. Torre; M.L. Mussons; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.

- 41 Title of the work:** Carboxilate complexes with π -donor-acceptor systems

Name of the conference: Spanish-Japanese organic chemistry symposium

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Alicante, Spain

Date of event: 1997

S. González; M.L. Mussons; M.F. Torre; César Alberto Raposo Funcia; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.

- 42 Title of the work:** Chiral receptors for carboxylic acids and amides

Name of the conference: Spanish-Japanese organic chemistry simposium

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: SALAMANCA, Spain

Date of event: 1997

M. Martín; M. Almaraz; J.V. Henández; Cruz Caballero Salvador; Joaquín Rodríguez Morán.

- 43 Title of the work:** Receptores moleculares para imidas, bases pirimidínicas y derivados basados en enlaces de hidrógeno

Name of the conference: 26ª Reunión bienal de la R.S.E.Q

Geographical area: National

Type of participation: 'Participatory - poster

City of event: CADIZ, Spain

Date of event: 1997

E.G. Campos; S. González; M.F. Torre; M.L. Mussons; Joaquín Rodríguez Morán; Cruz Caballero Salvador.



- 44** **Title of the work:** Receptors for caboxilates derived from furan and pyrrole
Name of the conference: Spanish-Japanese organic chemistry simposium
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Alicante, Spain
Date of event: 1997
M.F. Torre; M.L. Mussons; S. González; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.
- 45** **Title of the work:** Chiral Recogniton of a-substituted Acids with Xanthone Based Cleft-Type Receptors
Name of the conference: Molecular Recognition and Drug-Receptor Interaction
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: SALAMANCA, Spain
Date of event: 1996
M. Martín; César Alberto Raposo Funcia; M. Crego; M. Almaraz; Cruz Caballero Salvador; Manuel Grande Benito; Joaquín Rodríguez Morán.
- 46** **Title of the work:** Dichromenone urea derivatives as receptors for carboxilate anions in polar solvents
Name of the conference: Supramolecular chemistry: molecular recognition and drug-receptor interactions
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: SALAMANCA, Spain
Date of event: 1996
S. González; M.L. Mussons; M.F. Torre; César Alberto Raposo Funcia; E.G. Campos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.
- 47** **Title of the work:** Ion Selective Electrode for the Ibuprofen Anion Based on the Sulfuryl Amide Carboxylate Receptors
Name of the conference: American Chemical Society National Meeting
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Nueva Orleans1996 (ESTADOS UNIDOS DE AMÉRICA), United States of America
Date of event: 1996
J.C. Ball; R.S. Hutchins; César Alberto Raposo Funcia; Joaquín Rodríguez Morán; L.G. Bachas.
- 48** **Title of the work:** New Generation of Oxoanion Receptors for Selective Electrodes
Name of the conference: American Chemical Society National Meeting
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Nueva Orleans (ESTADOS UNIDOS DE AMÉRICA), United States of America
Date of event: 1996
J.C. Ball; R.S. Hutchins; César Alberto Raposo Funcia; Joaquín Rodríguez Morán; L.G. Bachas.
- 49** **Title of the work:** A Study of the Catalytic properties of some Hydrogen Bonding Receptors
Name of the conference: Advanced Research Workshop on Bioorganic catalysis. Johnstown
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Pennsylvania (ESTADOS UNIDOS DE AMÉRICA), United States of America
Date of event: 1995



César Alberto Raposo Funcia; M. Crego; M. Almaraz; M.L. Mussons; V. Weinrich; Cruz Caballero Salvador; Joaquín Rodríguez Morán.

50 Title of the work: Active Receptors in the Pyrrolidine Addition to Acrylamide

Name of the conference: 100 Years "Schloss-Schlüssel Prinzip

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Mainz (),

Date of event: 1994

M. Crego; César Alberto Raposo Funcia; M.L. Mussons; Cruz Caballero Salvador; Joaquín Rodríguez Morán.

51 Title of the work: Chromane derivatives as Receptors for Benzyl Amino Acids

Name of the conference: 11th Symposium on Chemistry of Heterocyclic Compounds

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Praga (REPÚBLICA CHECA), Czech Republic

Date of event: 1993

M. Martín; C. Raposo; M.L. Mussons; M. Grego; Josefa Anaya Mateos; Joaquín Rodríguez Morán; M.C. Caballero.

52 Title of the work: Complejantes para ácidos y amidas aromáticos con actividad catalítica

Name of the conference: XIV Bienal del grupo de química orgánica

Geographical area: National

Type of participation: Participatory - invited/keynote talk

City of event: PALMA DE MALLORCA, Spain

Date of event: 1993

M. Crego; César Alberto Raposo Funcia; A. Partearroyo; M.L. Mussons; Cruz Caballero Salvador; Joaquín Rodríguez Morán.

53 Title of the work: New receptors for malonic acid derivatives based on the 2,12-Tetrahydrobenzo(C,D)

Name of the conference: 11th Simposium of heterocyclic compounds

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Praga (REPÚBLICA CHECA), Czech Republic

Date of event: 1993

M.L. Mussons; M. Crego; César Alberto Raposo Funcia; M. Martín; Josefa Anaya Mateos; Joaquín Rodríguez Morán; Cruz Caballero Salvador.

54 Title of the work: Reconocimiento Molecular. Receptores de derivados del ácido malónico

Name of the conference: 24 Reunión Bienal de la R.S.E.Q.

Geographical area: National

Type of participation: 'Participatory - poster

City of event: MALAGA, Spain

Date of event: 1992

M.L. Mussons; C. Raposo; J.F. Almeida; Josefa Anaya Mateos; Joaquín Rodríguez Morán; M.C. Caballero.

55 Title of the work: Síntesis Estereoespecífica de Análogos de Oxiracetam

Name of the conference: 24 Reunión Bienal de la R.S.E.Q.

Geographical area: National

Type of participation: 'Participatory - poster



City of event: TORREMOLINOS, Spain

Date of event: 1992

J.F. Almeida; Josefa Anaya Mateos; Joaquín Rodríguez Morán; Cruz Caballero Salvador; Manuel Grande Benito.

56 Title of the work: Síntesis de antihistamínicos H₂: ranitidina y derivados

Name of the conference: 23 Reunion Bienal de la Sociedad Española de Química

Geographical area: National

Type of participation: 'Participatory - poster

City of event: SALAMANCA, Spain

Date of event: 23/09/1990

J.J. Navarro; J.F. Almeida; MARIA CRUZ CABALLERO SALVADOR; Joaquín Rodríguez Morán; Manuel Grande Benito; A.M. García; María Josefa Montero Gómez; María Luisa Martín Calvo; Luis San Román del Barrio.

57 Title of the work: Estudio de la Regla de Felkin en Ciclohexanonas

Name of the conference: XXIII Reunión Bienal del Grupo de Química Orgánica

Geographical area: National

Type of participation: 'Participatory - poster

City of event: SALAMANCA, Spain

Date of event: 1990

M.J. Sanz; V. Alcazar; Joaquín Rodríguez Morán; J.F. Almeida.

58 Title of the work: Nueva síntesis de Tiadiazoles

Name of the conference: XXII Reunión Bienal de la R.S.E.Q

Geographical area: Regional

Type of participation: 'Participatory - poster

City of event: MURCIA, Spain

Date of event: 1988

Joaquín Rodríguez Morán; I. Tapia; V. Alcázar; Manuel Grande Benito; J. De Pascual.

59 Title of the work: Reactividad del S- metiluro de bencilditiooxalamida

Name of the conference: XXII Reunión Bienal de la Real Sociedad Española de Química

Geographical area: National

Type of participation: 'Participatory - poster

City of event: MURCIA, Spain

Date of event: 1988

J. De Pascual; V. Alcázar; I. Tapia; R. Olabarrieta; Joaquín Rodríguez Morán; Manuel Grande Benito.

60 Title of the work: La Reacción entre el Acido Pirúvico y la Anilina

Name of the conference: XII Reunión Bienal del Grupo de Química Orgánica

Geographical area: National

Type of participation: 'Participatory - poster

City of event: CORDOBA, Spain

Date of event: 1987

J. De Pascual; V. Alcázar; Joaquín Rodríguez Morán; Manuel Grande Benito.

61 Title of the work: Lactonas Sesquiterpénicas de Centaurea ornata

Name of the conference: XII Reunión Bienal del Grupo de Química Orgánica

Geographical area: National

Type of participation: 'Participatory - poster



City of event: CORDOBA, Spain

Date of event: 1987

J.J. Navarro; Joaquín Rodríguez Morán; Cruz Caballero Salvador.

- 62** **Title of the work:** Reactividad del 2-Toliltio-2-Sulfoleno
Name of the conference: XII Reunión Bienal del Grupo de Química Orgánica
Geographical area: National
Type of participation: 'Participatory - poster
City of event: CORDOBA, Spain
Date of event: 1987
J. De Pascual; I. Tapia; Joaquín Rodríguez Morán; Manuel Grande Benito.

- 63** **Title of the work:** Reactividad del Tiofosgeno-S- metiluro
Name of the conference: XII Reunión Bienal del Grupo de Química Orgánica
Geographical area: National
Type of participation: 'Participatory - poster
City of event: CORDOBA, Spain
Date of event: 1987
J. De Pascual; V. Alcázar; Joaquín Rodríguez Morán; Manuel Grande Benito.

- 64** **Title of the work:** Síntesis de 1,7-oxido de bisabol-10-eno
Name of the conference: XII Reunión Bienal del Grupo de Q. Orgánica, R.S.E.Q.
Geographical area: National
Type of participation: 'Participatory - poster
City of event: CORDOBA, Spain
Date of event: 1987
Joaquín Rodríguez Morán; M.L. Hernández; Josefa Anaya Mateos; M.C. Caballero.

- 65** **Title of the work:** Poliacetilenos complejos de las raíces de Ferula communis
Name of the conference: XXI Reunión Bienal R.S.E.F.Q
Geographical area: National
Type of participation: 'Participatory - poster
City of event: SANTIAGO DE COMPOSTELA, Spain
Date of event: 1986
J. De Pascual; M. Villaseco; José María Hernández Hernández; Joaquín Rodríguez Morán; Julio González Urones; Manuel Grande Benito.

- 66** **Title of the work:** Síntesis y Estructura de los Diterpenos no Regulares Magydardiendiol y Peucelinendiol
Name of the conference: XXI Reunión Bienal de la Real Sociedad Española de Química
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: SANTIAGO DE COMPOSTELA, Spain
Date of event: 1986
J. De Pascual; Alfonso Fernández Mateos; J.J. Blanco; Joaquín Rodríguez Morán; Manuel Grande Benito.

- 67** **Title of the work:** Uncommon Terpenoids from Umbellifers
Name of the conference: 2nd. Symp. Progress on Nat. Prod. Chem
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Nottingham (REINO UNIDO), United Kingdom
Date of event: 1986



J. De Pascual; Joaquín Rodríguez Morán; Alfonso Fernández Mateos; José María Hernández Hernández; Manuel Grande Benito.

68 Title of the work: Estudio de los Componentes Químicos de Thapsia villosa L. y Thapsia villosa var minor

Name of the conference: XIX Reunión Bienal de la Real Sociedad de Química

Geographical area: National

Type of participation: 'Participatory - poster

City of event: SANTANDER, Spain

Date of event: 1982

J. De Pascual; Manuel Grande Benito; Joaquín Rodríguez Morán; M. De Pascual.

69 Title of the work: New Natural Products Isolated from Thapsia villosa L. and from Thapsia villosa L. var. minor

Name of the conference: 12 TH Interantional Symposium on the Chemistry of Natural Products

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Nottingham (REINO UNIDO), United Kingdom

Date of event: 1982

J. De Pascual; M. De Pascual; A.R. Arias; J.M. Hernández; Joaquín Rodríguez Morán; B. Corrales; Manuel Grande Benito.

70 Title of the work: Nuevos Componentes Químicos Aislados de Thapsia villosa L

Name of the conference: XV Congreso Latinoamericano de Química

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: San Juan de Puerto Rico (PUERTO RICO), Puerto Rico

Date of event: 1982

J. De Pascual; A.R. Arias; J.M. Hernández; Joaquín Rodríguez Morán; Manuel Grande Benito.

71 Title of the work: Sesquiterpenoids from Thapsia villosa var minor (Umbelliferae)

Name of the conference: I Symposium Progress in Nat. Prod. Chem. (R.S.C.)

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Nottingham (REINO UNIDO), United Kingdom

Date of event: 1982

J. De Pascual; Joaquín Rodríguez Morán; Manuel Grande Benito.

R&D management and participation in scientific committees

Evaluation and revision of R&D projects and articles

Name of the activity: Evaluador

Performed tasks: Evaluador de la ANEP

Entity where activity was carried out: Agencia Nacional de Evaluación y Prospectiva

Type of entity: ANEP

Other achievements

Stays in public or private R&D centres

- | | | |
|----------|--|---|
| 1 | Entity: Universidad Católica de Chile
City of entity: Valparaíso, Chile
Start-End date: 1993 - 1993
Goals of the stay: Guest | Type of entity: University

Duration: 1 month |
| 2 | Entity: Universidad de Los Ángeles
City of entity: Los Ángeles, United States of America
Start-End date: 1991 - 1991
Goals of the stay: Post-doctoral | Type of entity: University

Duration: 4 months |
| 3 | Entity: Universidad de Munich
City of entity: Munich, Germany
Start-End date: 1983 - 1984
Goals of the stay: Post-doctoral | Type of entity: University

Duration: 10 months |

Scientific societies and professional associations

Name of the society: Miembro de la Real Sociedad Española de Química

Prizes, mentions and distinctions

- | | | |
|----------|--|-----------------------------------|
| 1 | Description: Póster finalista en el II Certamen de Divulgación Científica sobre Trabajos de Investigación de Estudiantes de Máster y Doctorado
Awarding entity: Universidad de Salamanca
Conferral date: 2013 | Type of entity: University |
| 2 | Description: Póster finalista en el I Certamen de Divulgación Científica sobre Trabajos de Investigación de Estudiantes de Máster y Doctorado
Awarding entity: Universidad de Salamanca
Conferral date: 2012 | Type of entity: University |



- 3** **Description:** Premio al mejor trabajo de grado en el año internacional de la química
Awarding entity: Facultad de Ciencias Químicas **Type of entity:** University Centres and Structures and Associated Bodies
City awarding entity: Salamanca, Spain
Conferral date: 2011
- 4** **Description:** Póster premiado en los IX Premios de Investigación Lilly para alumnos de doctorado
Awarding entity: Lilly España **Type of entity:** Business
Conferral date: 2011

Periods of research activity

- Nº of recognized periods:** 5
Certifying entity: Agencia Nacional de Evaluación y **Type of entity:** Comisión Nacional evaluadora de la actividad investigadora
City certifying entity: Madrid, Community of Madrid, Spain
Date of recognition: 2013

Summary of other achievements

- 1** **Description of the achievement:** Invitación por la fundación V Centenario
Conferral date: 01/01/1993
- 2** **Description of the achievement:** Síntesis de ranitidina para ALMU S.A. Salamanca
Conferral date: 01/01/1988
- 3** **Description of the achievement:** Síntesis de cromoglicato sódico para ALMU S.A. Salamanca
Conferral date: 01/01/1987
- 4** **Description of the achievement:** Beca de la Fundación Maximilianeum Direccion: Profesor R Huisgen
Conferral date: 01/01/1983
- 5** **Description of the achievement:** Premio Extraordinario de Doctorado
Conferral date: 01/01/1983
- 6** **Description of the achievement:** Beca del Ministerio de Educación y Ciencia Plan de Formación del personal Investigador
Conferral date: 01/01/1979
- 7** **Description of the achievement:** Premio Extraordinario de Licenciatura
Conferral date: 01/01/1979
- 8** **Description of the achievement:** Referee habitual de revistas como Chem. Eur. J., Eur. J. Org. Chem., Org. Biomol. Chem., Tetrahedron, Tetrahedron Lett., etc.