



Elsa Sanchez Lopez

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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.

I have more than **10 years' research experience** in the fields of **inflammation and molecular mechanisms of disease**, with significant contributions to the field as reflected by authorship in more than **30 scientific papers in high impact journals**. I have extensive experience in characterization and evaluation of **animal models**, and I have contributed to **delineate the molecular mechanisms that regulate the inflammatory process, identifying potential therapeutic targets, inventor of two patents, and providing evidences to evaluate several compounds in human Phase I clinical trials**.

I got my **Bachelor degree in Biology by Universidad Complutense in Madrid** in 2001. After taking specialization courses at **Biochemistry Institute and Medicinal Chemistry Institute Spanish National Research Council-CSIC**, I joined Biochemistry Ph.D. program at School of Medicine Autonoma University in 2003. I obtained my **Ph.D. degree in Biochemistry and Molecular Biology from Autonoma University** at Dr. Jesus Egido's laboratory, completing three research projects that were **awarded with the Outstanding cum Laude and the Extraordinary Thesis Award from the Universidad Autonoma** in Madrid in 2008 and 2009 respectively.

As a postdoctoral researcher I joined the lab of Dr. Juan Carlos Lacal for a brief period, where I received training in **experimental cancer models and phospholipid metabolism**. In 2012, thanks to **Sara Borrell fellowship**, I was invited to join Dr. Michael Karin's laboratory, a world leader in **inflammation and tumor immunology, at Department of Pharmacology University of California San Diego**. While in the Karin lab, I investigated how the **modulation of the tumor microenvironment, including macrophages, TH17 cells, myeloid-nurse like cells and plasma cells affect cancer onset and progression**. Pieces of these work have resulted in scientific publications in high impact journals and the initiation of **clinical trials or FDA approval** for starting clinical trial in 2019. At Dr. Karin's laboratory I have become an **expert in macrophage biology**, identifying **positive and negative regulators of NLRP3 inflammasome** and the production of IL-1b and IL-18, two of the most important inflammatory cytokines.

Currently, I am **assistant project scientist at Department of Pharmacology UCSD**. Thanks to my background and expertise, I have designed a project that study the role of **choline metabolism and other dietary metabolites in inflammatory diseases and innate immunity**. I am **supervising and co-mentoring** two undergraduate students, and two postdoctoral fellows, while establishing scientific collaborations internationally.

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.

Publication record: 34 scientific articles (26 in the 1st quartile), in high quality international journals such as Cell Metabolism, Nature, Cell, Immunity, Oncogene, JASN and Circulation, being the **first author in 9, and second or third author in 12** of them.

Citation: up to 2349 times, accounting for 1176 in the last 5 years (2015-2019) (self-citation below 10%, Scopus resource). **H factor of 23, with an average of 235 citations/year in the last 5 years** (Scopus resource).

I have presented my work in more than 28 **national and international conferences**, and participated in 8 **research projects** in the field of inflammation and molecular mechanisms of the disease, one of them as PI.

I was awarded with the **most competitive grants in Spain**, the **PhD fellowship award (BEFI)** and the **Postdoctoral fellowship award under the program "Sara Borrell"** both from Institute de Salud Carlos III.

As a result of the quality and impact in the field, I received the Outstanding **cum Laude and Extraordinary Award from the Universidad Autonoma de Madrid**.

My training includes posgrade **specialization courses** and **stays at research institutions recognized internationally in the area of molecular and cellular biology**, spending two years as visiting scholar at the **Department of Pharmacology of University of California San Diego (U.S.A.)**, where I still work as assistant project scientist.

I am member of **Sociedad Española de Inmunología** (Ambassador) and the **American Association of Immunologist**.

As a recognition of my **scientific quality and standards**, I serve as **reviewer for Leukemia** (IF: 10.023), **Oncogene** (IF: 6.85), **BMC Cancer** (IF: 3.288), **Biology Letters** (IF: 3.345), **Scientific Reports** (IF: 4.122), and participate as **Guest Editor** for a Special Issue titled "Autophagy in Infection, Inflammation and Immunity" in **Journal of Clinical Medicine** (IF: 5.583).

My focus in translational research have led to **licensing a patent as co-inventor** and I am currently in the process of **licensing another**.



Elsa Sanchez Lopez

Surname(s): **Sanchez Lopez**
 Name: **Elsa**
 ORCID: **0000-0002-4236-1985**
 ScopusID: **8540115100**
 ResearcherID: **A-7131-2017**

Current professional situation

Employing entity: University of California San Diego **Type of entity:** University

Department: School of Medicine

Professional category: Assistant Project Scientist

City employing entity: La Jolla, United States of America

Phone: (+1) 6193158608

Email: esl023@ucsd.ed

Start date: 01/03/2016

Primary (UNESCO code): 240000 - Life Science; 241200 - Immunology; 241500 - Molecular biology

Secondary (UNESCO code): 241200 - Immunology; 241500 - Molecular biology

Tertiary (UNESCO code): 320713 - Oncology

Previous positions and activities

	Employing entity	Professional category	Start date
1	University of California San Diego	Postdoctoral Fellow	01/01/2014
2	University of California San Diego	Visiting Scholar	01/02/2012
3	Instituto de Investigaciones Biomédicas Alberto Sols	Investigador contratado Programa Sara Borrell, ISCIII.	01/01/2010
4	Instituto de Investigaciones Biomédicas Alberto Sols	Investigador contratado	01/04/2009
5	Universidad Autónoma de Madrid	Investigador contratado	31/07/2008
6	Universidad Autónoma de Madrid	PhD student	31/12/2003

- 1** **Employing entity:** University of California San Diego **Type of entity:** University Department Diego
Department: Pharmacology, School of Medicine University of California San Diego (UCSD)
City employing entity: La Jolla, United States of America
Professional category: Postdoctoral Fellow
Start-End date: 01/01/2014 - 28/02/2016 **Duration:** 2 years - 1 month - 27 days
Primary (UNESCO code): 240000 - Life Science
Identify key words: Molecular mechanism of disease



- 2** **Employing entity:** University of California San Diego **Type of entity:** University Department
Department: Pharmacology, School of Medicine, University of California San Diego (UCSD)
City employing entity: La Jolla, United States of America
Professional category: Visiting Scholar
Start-End date: 01/02/2012 - 31/12/2013 **Duration:** 1 year - 10 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
- 3** **Employing entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency
Professional category: Investigador contratado Programa Sara Borrell, ISCIII.
Start-End date: 01/01/2010 - 31/12/2013 **Duration:** 4 years
- 4** **Employing entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Investigador contratado
Start-End date: 01/04/2009 - 01/01/2010 **Duration:** 8 months
- 5** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University
Professional category: Investigador contratado
Start-End date: 31/07/2008 - 04/05/2009 **Duration:** 8 months
- 6** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University
Department: Fundación Jiménez Díaz
Professional category: PhD student
Start-End date: 31/12/2003 - 31/12/2007 **Duration:** 4 years



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CURRÍCULUM VITAE NORMALIZADO

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Education

University education

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

- 1 University degree:** Posgrade specialization Course
Name of qualification: DNA Array Data Analysis
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Biomol Informatics. Universidad Autónoma de Madrid.
Date of qualification: 2009
- 2 University degree:** Course
Name of qualification: Postgraduate Certificate in Education
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Universidad Complutense **Type of entity:** University de Madrid
Date of qualification: 2002
Prize: End of degree award
Standardised degree: Yes
- 3 University degree:** Posgrade specialization course
Name of qualification: Medicinal Chemistry
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Medical Chemistry Institute. CSIC.
Date of qualification: 2002
- 4 University degree:** Posgrade specialization Course
Name of qualification: Cell culture techniques and applications.
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Biochemistry Institute. CSIC.
Date of qualification: 10/2001
- 5 University degree:** Higher degree
Name of qualification: Bachelor in Biology.
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Universidad Complutense **Type of entity:** University de Madrid
Date of qualification: 07/2001
Prize: End of degree award



Doctorates

Doctorate programme: Ph.D. Biochemistry, Molecular Biology and Biomedicine

Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University

City degree awarding entity: Madrid, Community of Madrid, Spain

Date of degree: 07/2008

DEA awarding entity: Universidad Autónoma de Madrid

Thesis title: "Mecanismos moleculares implicados en la regulación del factor de crecimiento de tejido conectivo. Papel en la génesis y progresión del daño renal"

Thesis director: Marta Ruiz Ortega

Obtained qualification: Suma cum Laude

Special doctorate award: Yes

Date of award: 03/06/2009

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B1	B1	A1	A1	A1
English	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2

Scientific and technological experience

Scientific or technological activities

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

- Name of the project:** "Targeting choline metabolism in macrophages to treat osteoarthritis"

Entity where project took place: Microenvironment in Arthritis resource center. UCSD

Type of entity: University

City of entity: San Diego, United States of America

Name principal investigator (PI, Co-PI....): Elsa Sanchez Lopez

Nº of researchers: 1

Start-End date: 01/08/2019 - 31/07/2020

Total amount: 25.000 €
- Name of the project:** "Targeting the NFKappaB- STAT3 Crosstalk in Chronic Lymphocytic Leukemia"

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

Geographical area: Non EU International

Degree of contribution: Researcher

Entity where project took place: University of California San Diego/ Moores Cancer Center

City of entity: La Jolla, United States of America

Name principal investigator (PI, Co-PI....): Thomas J Kipps; Michael Karin

Funding entity or bodies: Leukemia & Lymphoma Society

Type of entity: Foundation



Type of participation: Team member

Start-End date: 01/10/2013 - 30/09/2018

- 3 Name of the project:** "Estudio de los mecanismos moleculares de acción de los inhibidores enzimáticos de la colina quinasa-a (ChoK?)"

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

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Biomédicas Alberto Sols

Type of entity: State agency

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Elsa Sanchez Lopez

Funding entity or bodies:

FONDO DE INVESTIGACION SANITARIA. ISCIII.

Type of participation: Principal investigator

Name of the programme: AYUDAS PARA CONTRATOS POSTDOCTORALES DE PERFECCIONAMIENTO EN INVESTIGACIÓN EN SALUD "SARA BORRELL"

Start-End date: 01/01/2010 - 31/12/2013

Total amount: 144.000 €

- 4 Name of the project:** "Investigación de los mecanismos moleculares implicados en la transición epitelio mesenquimal durante el daño renal. Búsqueda de nuevas dianas terapéuticas"

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

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universidad Autónoma de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Marta Ruiz Ortega

Funding entity or bodies:

FONDO DE INVESTIGACION SANITARIA. ISCIII.

Type of participation: Team member

Start-End date: 01/01/2009 - 31/12/2011

Total amount: 96.200 €

- 5 Name of the project:** "Establecimiento de las bases para una mejor comprensión de las redes de regulación interdependientes entre metabolismo y señalización intracelular en células tumorales"

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

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Biomédicas Alberto Sols

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Juan Carlos Lacal

Funding entity or bodies:

MINISTERIO DE CIENCIA E INNOVACIÓN

Type of participation: Team member

Start-End date: 01/01/2008 - 01/01/2011

Total amount: 742.556 €



6 Name of the project: " Estudio de nuevas rutas señalización intracelular y mediadores implicados en el daño vascular y renal mediado por angiotensina II"

Type of project: Research and development, including transfer

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universidad Autónoma de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Marta Ruiz Ortega

Funding entity or bodies:

MINISTERIO DE CIENCIA E INNOVACION

Type of participation: Team member

Start-End date: 31/12/2005 - 30/12/2008

Total amount: 103.000 €

7 Name of the project: "Estudio de la participación de la Angiotensina 1-7 y de mas, su receptor específico, en procesos inflamatorios y fibróticos asociados al daño vascular y renal"

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

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universidad Autónoma de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Marta Ruiz Ortega

Funding entity or bodies:

COMUNIDAD DE MADRID

Type of participation: Team member

Start-End date: 01/01/2006 - 31/12/2006

Total amount: 25.000 €

Results

Industrial and intellectual property

Title registered industrial property: Compositions and methods for characterization and amelioration of rheumatoid arthritis

Inventors/authors/obtainers: Gary S Firestein; Monica Guma; Michael Karin; Elsa Sanchez Lopez; Juan Carlos Lacal; Stefano Tiziani

Nº of application: WO-2015028662-A1

Country of inscription: United States of America

Date of register: 31/08/2014

Conferral date: 2001



Scientific and technological activities

Scientific production

H index: 23

Date of application: 25/01/2019

Publications, scientific and technical documents

- 1** E. Sanchez Lopez; Z. Zhong; A. Stubelius; S.R. Sweeny; L. Booshehri; L. Antonucci; R. Liu-Bryan; A. Lodi; R. Terkeltaub; J.C. Lacal; A.N. Murphy; H.M. Hoffman; S. Tiziani; M. Guma; M. Karin. Choline uptake and metabolism modulate macrophage IL-1 β and IL-18 production. *Cell Metabolism*. 29 - 6, pp. 1350 - 1362. Cell Press, 2019.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 15
Impact source: Clarivate **Category:** Science Edition - CELL BIOLOGY
Impact index in year of publication: 20.56 **Journal in the top 25%:** Yes
Relevant publication: Yes
- 2** Z. Zhong; S. Liang; E. Sanchez Lopez; F. He; S. Shalapour; X.J. Lin; J. Wong; S. Ding; E. Seki; B. Schnabl; A.L. Hevener; H.B. Greenberg; T. Kisseleva; M. Karin. New mitochondrial DNA synthesis enables NLRP3 inflammasome activation. *Nature*. 560 - 7717, pp. 198 - 203. Springer Nature Publishing AG, 25/07/2018.
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 14
Impact source: Clarivate **Category:** MULTIDISCIPLINARY SCIENCES - SCIE
Impact index in year of publication: 41.50 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 9
Relevant publication: Yes
- 3** E. Sanchez Lopez; E. Flashner-Abramson; S. Shalapour; Z. Zhong; K. Taniguchi; A. Levitzki; M. Karin. Targeting colorectal cancer via its microenvironment by inhibiting IGF-1 receptor-insulin receptor substrate and STAT3 signaling. *Oncogene*. 35 - 20, pp. 2634 - 2644. Springer Nature, 19/04/2016.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 7
Impact source: Clarivate **Category:** BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE
Impact index in year of publication: 7.51 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 40
Relevant publication: Yes

- 4** Z. Zhong; A. Umemura; E. Sanchez Lopez; S. Liang; S. Shalpour; J. Wong; F. He; D. Boassa; G. Perkins; Ali, SR.; McGeough, MD.; Ellisman, M.H.; Seki, E.; Gustafsson, A.B.; Hoffman, H.M.; Diaz-Meco, M.T.; Moscat, J. NF- κ B Restricts Inflammation Activation via Elimination of Damaged Mitochondria. *Cell*. 164 - 5, pp. 896 - 910. Elsevier Inc, 25/02/2016.
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 17
Impact source: Clarivate **Category:** BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE
Impact index in year of publication: 30.41 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 178
Relevant publication: Yes
- 5** M. Guma; E. Sanchez Lopez; A. Lodi; R. Garcia Carbonell; S. Tziani; J. Lacal; M. Karin. Choline kinase inhibition in rheumatoid arthritis. *Ann Rheum Dis*. 74 - 7, pp. 1399 - 1407. 07/2015.
Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Impact source: Clarivate **Category:** RHEUMATOLOGY - SCIE
Impact index in year of publication: 12.38 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 18
Relevant publication: Yes
- 6** E. Sanchez Lopez; T. Zimmerman; T. Gomez del Puldar; M.P. Moyer; J. Lacal Sanjuan; A. Cebrian. Choline kinase inhibition induces exacerbated endoplasmic reticulum stress and triggers apoptosis via CHOP in cancer cells. *Cell Death Disease*. 28 - 4, pp. e933. Nature Publishing group, 28/11/2013.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Impact source: Clarivate **Category:** CELL BIOLOGY - SCIE
Impact index in year of publication: 5.17
Source of citations: SCOPUS **Citations:** 37
Relevant publication: Yes
- 7** E. Sanchez Lopez; S. Rayego Mateos; R. Rodriguez Diez; S. Sanchez Rodriguez; R. Rodriguez Diez; J. Rodriguez Vita; G. Carvajal; L. Stark Aroeria; R. Selgas; S. Mezzano; A. Ortiz; J. Egido; M. Ruiz Ortega. CTGF promotes inflammatory cell infiltration of the renal interstitium by activating NF-kappaB. *J Am Soc Nephrol*. 20 - 7, pp. 1513 - 1526. 07/05/2009.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 13
Impact source: Clarivate **Category:** UROLOGY & NEPHROLOGY - SCIE
Impact index in year of publication: 7.68 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 73
Relevant publication: Yes



- 8** E. Sanchez Lopez; J. Rodriguez Vita; C. Cartier; M. Ruperez; V. Esteban Vazquez; G. Carvajal; R. Rodrigues Diez; J.J. Plaza; J. Egido; M. Ruiz Ortega. Inhibitory effect of interleukin-1beta on angiotensin II-induced connective tissue growth factor and type IV collagen production in cultured mesangial cells. *Am J Physiol Renal Physiol.* 294 - 1, pp. F149 - F160. 07/11/2007.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 10
Impact source: Clarivate **Category:** Science Edition - UROLOGY & NEPHROLOGY
Impact index in year of publication: 4.41 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 39
Relevant publication: Yes
- 9** Y Chen; L Chen; J Yu; EM Ghia; MY Choi; L Zhang; S Zhang; Elsa Sanchez Lopez; GF 2nd Widhopf; K Messer; L Rassenti; C Jamieson. Cirmtuzumab Blocks Wnt5a/ROR1-Stimulation Of NF-κB To Repress Autocrine STAT3-Activation In Chronic Lymphocytic Leukemia. *Blood.* 13/08/2019.
DOI: 10.1182/blood.2019001366
Type of production: Scientific paper **Format:** Journal
Position of signature: 8 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 12 **Corresponding author:** No
Impact source: SCOPUS **Category:** Science Edition - HEMATOLOGY
Impact index in year of publication: 16.562 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 33
- 10** M.F. Bustamante; P.G. Oliveira; R. Garcia Carbonell; A.P. Croft; J.M. Smith; R.L. Serrano; E. Sanchez Lopez; X. Liu; T. Kisseleva; N. Hay; C.D. Buckley; G.S. Firestein; A.N. Murphy; S. Miyamoto; M. Guma. Hexokinase 2 as a novel selective metabolic target for rheumatoid arthritis. *Ann Rheum Dis.* 77 - 11, pp. 1636 - 1643. *BMJ journals,* 30/07/2018.
Type of production: Scientific paper **Format:** Journal
Position of signature: 7
Total no. authors: 15
Impact source: Clarivate **Category:** RHEUMATOLOGY - SCIE
Impact index in year of publication: 12.35 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 2
- 11** P.D. Sanchez Gonzalez; F.J. Lopez Hernandez; M. Dueñas; M. Prieto; E. Sanchez Lopez; J. Thomale; M. Ruiz Ortega; J.M. Lopez Novoa; A.I. Morales. Differential effect of quercetin on cisplatin-induced toxicity in kidney and tumor tissues. *Food Chem Toxicol.* 107, pp. 226 - 236. Elsevier, 30/06/2017.
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 9
Impact source: Clarivate **Category:** TOXICOLOGY - SCIE
Impact index in year of publication: 3.97 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 6
- 12** W. Xing; Y. Xiao; X. Lu; H. Zhu; X. He; W. Huang; E. Sanchez Lopez; J. Wong; H. Ju; L. Tian; F. Zhang; H. Xu; S.D. Wang; X. Li; M. Karin; H. Ren. GFI1 downregulation promotes inflammation-linked metastasis of colorectal cancer. *Cell Death Differ.* 24 - 5, pp. 929 - 943. Nature Publishing Group, 07/04/2017.



Type of production: Scientific paper

Position of signature: 7

Total no. authors: 16

Impact source: Clarivate

Impact index in year of publication: 8

Source of citations: Google Scholar

Format: Journal

Category: BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE

Journal in the top 25%: Yes

Citations: 3

- 13** S. Shalapour; J. Font Burgada; G. Di Caro; Z. Zhong; E. Sanchez Lopez; D. Dhar; G. Willimsky; M. Ammirante; A. Strasner; D.E. Hansel; C. Jamieson; C.J. Kane; T. Klatte; P. Birner; L. Kenner; M. Karin. Immunosuppressive plasma cells impede T-cell-dependent immunogenic chemotherapy. *Nature*. 521 - 7550, pp. 94 - 98. 07/05/2015.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 16

Impact source: Clarivate

Impact index in year of publication: 38.13

Source of citations: SCOPUS

Format: Journal

Category: MULTIDISCIPLINARY SCIENCES - SCIE

Journal in the top 25%: Yes

Citations: 128

- 14** M. Alique; E. Sanchez Lopez; S. Rayego Mateos; J. Egido; A. Ortiz; M. Ruiz Ortega. Angiotensin II, via angiotensin receptor type 1/nuclear factor- κ B activation, causes a synergistic effect on interleukin-1 β -induced inflammatory responses in cultured mesangial cells. *J Renin Angiotensin Aldosterone Syst.* 16 - 1, pp. 26 - 32. SAGE JOURNALS, 01/03/2015.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 7

Impact source: Clarivate

Impact index in year of publication: 2.35

Source of citations: SCOPUS

Format: Journal

Category: PERIPHERAL VASCULAR DISEASE - SCIE

Citations: 10

- 15** K. Wang; M. Kim; G. Di Caro; J. Wong; S. Shalapour; J. Wan; W. Zhang; Zhenyu Zhong; Elsa Sanchez Lopez; L.W. Wu; K. Taniguchi; Y. Feng; E. Fearon; S. Grivennikov; M. Karin. Interleukin-17 receptor signaling in transformed enterocytes promotes early colorectal tumorigenesis. *Immunity*. 41 - 6, pp. 1052 - 1063. 12/2014.

Type of production: Scientific paper

Position of signature: 9

Total no. authors: 15

Impact source: Clarivate

Impact index in year of publication: 21.56

Source of citations: SCOPUS

Format: Journal

Category: IMMUNOLOGY - SCIE

Journal in the top 25%: Yes

Citations: 97

- 16** M. Alique; E. Civantos; E. Sanchez Lopez; C. Lavoz; S. Rayego Mateos; R. Rodrigues Diez; A.B. Garcia Redondo; J. Egido de los Rios; A. Ortiz; D. Rodriguez Puyol; M. Rodriguez Puyol; M. Ruiz Ortega. Integrin-linked kinase plays a key role in the regulation of angiotensin II-induced renal inflammation. *Clin Sci (Lond)*. 27 - 1, pp. 19 - 31. Portland Press Limited, 01/07/2014.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 12

Impact source: Clarivate

Format: Journal

Category: MEDICINE, RESEARCH & EXPERIMENTAL - SCIE



Impact index in year of publication: 5.59

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 19

- 17** R. Rodrigues Diez; R.I Rodrigues Diez; S. Rayego Mateos; B. Suarez Alvarez; C. Lavoiz; L. Stark Aroeira; E. Sanchez Lopez; M. Orejudo; M. Alique; C. Lopez Larrea; A. Ortiz; J. Egido de los Rios; M. Ruiz Ortega. The C-terminal module IV of connective tissue growth factor is a novel immune modulator of the Th17 response. *Lab Investigation*. 93 - 7, pp. 812 - 824. Nature Publishing Group, 06/05/2013.

Type of production: Scientific paper

Format: Journal

Position of signature: 7

Total no. authors: 13

Impact source: Clarivate

Category: MEDICINE, RESEARCH & EXPERIMENTAL - SCIE

Impact index in year of publication: 3.82

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 14

- 18** M.D. Sanchez Nino; A.B. Sanz; E. Sanchez Lopez; M. Ruiz Ortega; A. Benito Martin; M.A. Saleem; P.W. Mathieson; S. Mezzano; J. Egido de los Rios; A. Ortiz. HSP27/HSPB1 as an adaptive podocyte antiapoptotic protein activated by high glucose and angiotensin II. *Lab Investigation*. 92 - 1, pp. 32 - 45. Nature Publishing Group, 19/09/2011.

Type of production: Scientific paper

Format: Journal

Position of signature: 3

Total no. authors: 10

Impact source: Clarivate

Category: MEDICINE, RESEARCH & EXPERIMENTAL - SCIE

Impact index in year of publication: 3.64

Source of citations: SCOPUS

Citations: 34

- 19** G. Carvajal; J. Rodriguez Vita; R. Rodrigues Diez; E. Sanchez Lopez; M. Ruperez; C. Cartier; V. Esteban Vazquez; A. Ortiz; S. Mezzano. Angiotensin II activates the Smad pathway during epithelial mesenchymal transdifferentiation. *Kidney Int*. 74 - 5, pp. 585 - 595. 28/05/2009.

Type of production: Scientific paper

Format: Journal

Position of signature: 4

Total no. authors: 9

Impact source: Clarivate

Category: UROLOGY & NEPHROLOGY - SCIE

Impact index in year of publication: 6.19

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 85

- 20** J. Rodriguez Vita; E. Sanchez Galan; B. Santamaria Perez; E. Sanchez Lopez; R. Rodrigues Diez; L.M. Blanco Colio; J. Egido; A. Ortiz; M. Ruiz Ortega. Essential role of TGF-beta/Smad pathway on statin dependent vascular smooth muscle cell regulation. *PLoS One*. 3 - 12, pp. e3959. 17/12/2008.

Type of production: Scientific paper

Format: Journal

Position of signature: 4

Total no. authors: 9

Impact source: Clarivate

Category: MULTIDISCIPLINARY SCIENCES - SCIE

Impact index in year of publication: 4.35

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 38

- 21** R. Rodrigues Diez; G. Carvajal Gonzalez; E. Sanchez Lopez; J. Rodriguez Vita; R. Rodrigues Diez; R. Selgas; A. Ortiz; J. Egido; S. Mezzano; M. Ruiz Ortega. Pharmacological modulation of epithelial mesenchymal transition caused by angiotensin II. Role of ROCK and MAPK pathways. *Pharm Res.* 25 - 10, pp. 2447 - 2461. 16/07/2008.
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 10
Impact source: Clarivate **Category:** Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 4.35 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 52
- 22** M. Ruperez; R. Rodrigues Diez; L.M. Blanco Colio; E. Sanchez Lopez; J. Rodriguez Vita; V. Esteban Vazquez; G. Carvajal; J.J. Plaza; J. Egido; M. Ruiz Ortega. HMG-CoA reductase inhibitors decrease angiotensin II-induced vascular fibrosis: role of RhoA/ROCK and MAPK pathways. *Hypertension.* 50 - 2, pp. 377 - 383. 25/06/2007.
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 10
Impact source: Clarivate **Category:** PERIPHERAL VASCULAR DISEASE - SCIE
Impact index in year of publication: 7.19 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 87
- 23** M. Ruperez; E. Sanchez Lopez; L.M. Blanco Colio; V. Esteban; J. Rodriguez Vita; J.J. Plaza; J. Egido; M. Ruiz Ortega. The Rho-kinase pathway regulates angiotensin II-induced renal damage. *Kidney Int Suppl.* 99, pp. S39 - S45. 12/2005.
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 8
Impact source: Clarivate **Category:** UROLOGY & NEPHROLOGY - SCIE
Impact index in year of publication: 4.92 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 19
- 24** E. Sanchez Lopez; A.F. Lopez; V. Esteban; S. Yague; J. Egido; Marta Ruiz Ortega; Maria Victoria Alvarez Arroyo. Angiotensin II regulates vascular endothelial growth factor via hypoxia-inducible factor-1alpha induction and redox mechanisms in the kidney. *Antioxid Redox Signal.* 7 - 9-10, pp. 1275 - 1284. 09/2005.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 7
Impact source: Clarivate **Category:** BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE
Impact index in year of publication: 4.23 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 39
- 25** J. Rodriguez Vita; M. Ruiz Ortega; M. Ruperez; V. Esteban; E. Sanchez Lopez; J.J. Plaza; J. Egido. Endothelin-1, via ETA receptor and independently of transforming growth factor-beta, increases the connective tissue growth factor in vascular smooth muscle cells. *Circ Res.* 97 - 2, pp. 125 - 134. 23/06/2005.
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 7

Impact source: Clarivate

Category: CARDIAC & CARDIOVASCULAR SYSTEMS - SCIE

Impact index in year of publication: 9.40

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 84

- 26** J. Rodriguez Vita; E. Sanchez Lopez; V. Esteban; M. Ruperez; J. Egido; M. Ruiz Ortega. Angiotensin II activates the Smad pathway in vascular smooth muscle cells by a transforming growth factor-beta-independent mechanism. *Circulation*. 111 - 19, 09/05/2005.

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 6

Impact source: Clarivate

Category: CARDIAC & CARDIOVASCULAR SYSTEMS - SCIE

Impact index in year of publication: 11.63

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 235

- 27** V. Esteban; M. Ruperez; E. Sanchez Lopez; J. Rodriguez Vita; O. Lorenzo; H. Demaegdt; P. Vanderheyden; J. Egido; M. Ruiz Ortega. Angiotensin IV activates the nuclear transcription factor-kappaB and related proinflammatory genes in vascular smooth muscle cells. *Circ Res*. 96 - 9, pp. 965 - 973. 14/04/2005.

Type of production: Scientific paper

Format: Journal

Position of signature: 3

Total no. authors: 9

Impact source: Clarivate

Category: CARDIAC & CARDIOVASCULAR SYSTEMS - SCIE

Impact index in year of publication: 9.40

Journal in the top 25%: Yes

Source of citations: SCOPUS

Citations: 77

- 28** J. Casado Vela; M. Cascante; A. Cebrian; L. Menchen; E. Sanchez Lopez; S. Diaz Moralli; M. Gomez del Pulgar; J.C. Lacal. Biological methods for metabolic research. "Methodologies for Metabolomics: Experimental Strategies and Techniques". Cambridge University Press, 2012.

Type of production: Book chapter

Format: Book

Position of signature: 5

Total no. authors: 8

- 29** E. Sanchez Lopez; R. Rodrigues Diez; J. Rodriguez Vita; S. Rayego Mateos; R. Rodrigues Diez; E. Rodriguez Garcia; C. Lavoiz Barria; S. Mezzano; J. Egido de los Rios; A. Ortiz; R. Selgas; M. Ruiz Ortega. Connective tissue growth factor (CTGF): a key factor in the onset and progression of kidney damage. *Nefrologia*. 29 - 5, pp. 382 - 391. Grupo Editorial Nefrologia, 2009.

Type of production: Review

Format: Journal

Position of signature: 1

Total no. authors: 12

Impact source: Clarivate

Category: UROLOGY & NEPHROLOGY - SCIE

Impact index in year of publication: 0.59

Source of citations: SCOPUS

Citations: 13

- 30** Z. Zhong; E. Sanchez Lopez; M. Karin. Autophagy, Inflammation and Immunity: A Troika Governing Cancer and Its Treatment. *Cell*. 166 - 2, pp. 288 - 298. Elsevier Inc, 14/07/2016.

Type of production: Bibliographic review

Format: Journal

Position of signature: 1

Total no. authors: 3

Impact source: Clarivate

Impact index in year of publication: 30.41

Source of citations: SCOPUS

Relevant publication: Yes

Degree of contribution: Author or co-author of review

Category: BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE

Journal in the top 25%: Yes

Citations: 158

- 31** Patricia G de Oliveira; M Farinon; Elsa Sanchez Lopez; S Miyamoto; Monica Guma. Fibroblast-Like Synoviocytes Glucose Metabolism as a Therapeutic Target in Rheumatoid Arthritis. Front Immunology. 10, 02/08/2019.

Type of production: Bibliographic review

Position of signature: 3

Total no. authors: 5

Impact source: SCOPUS

Impact index in year of publication: 6.429

Format: Journal

Degree of contribution: Author or co-author of review

Corresponding author: No

- 32** Elsa Sanchez Lopez; Anyan Cheng; Monica Guma. Can metabolic pathways be therapeutic targets in rheumatoid arthritis?. Journal of Clinical Medicine. 8 - 5, pp. E753. MDPI, 27/05/2019.

Type of production: Bibliographic review

Position of signature: 1

Total no. authors: 3

Impact source: Clarivate

Impact index in year of publication: 5.583

Format: Journal

Degree of contribution: Author or co-author of review

Corresponding author: No

Category: Medicine (miscellaneous)

Journal in the top 25%: No

- 33** Z. Zhong; E. Sanchez Lopez; M. Marin. Autophagy, NLRP3 inflammasome and auto-inflammatory/immune diseases. Clin Exp Rheumatol.4 - 98, pp. 12 - 16. 2016.

Type of production: Bibliographic review

Position of signature: 1

Total no. authors: 3

Impact source: Clarivate

Impact index in year of publication: 3.21

Source of citations: SCOPUS

Degree of contribution: Author or co-author of review

Category: RHEUMATOLOGY - SCIE

Citations: 27

- 34** J. Casado Vela; A. Cebrian; T. Gomez del Pulgar; E. Sanchez Lopez; M. Vilaseca; L. Menchen; C. Diema; S. Selles Marchart; M.J. Martinez Estes; N. Yubero; R. Bru Martinez; J.C. Lacal Sanjuan. Lights and shadows of proteomic technologies for the study of protein species including isoforms, splicing variants and protein post-translational modifications. Proteomics. 11 - 4, pp. 590 - 603. Wiley Online Library, 13/01/2011.

Type of production: Bibliographic review

Position of signature: 4

Total no. authors: 12

Impact source: Clarivate

Impact index in year of publication: 4.50

Source of citations: SCOPUS

Format: Journal

Category: BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE

Journal in the top 25%: Yes

Citations: 23



- 35** M. Ruiz Ortega; J. Rodriguez Vita; E. Sanchez Lopez; G. Carvajal. TGF-beta signaling in vascular fibrosis. Cardiovasc Res.74 - 2, pp. 196 - 206. 12/02/2007.
Type of production: Bibliographic review **Format:** Journal
Position of signature: 3
Total no. authors: 4
Impact source: Clarivate **Category:** CARDIAC & CARDIOVASCULAR SYSTEMS - SCIE
Impact index in year of publication: 6.12 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 354
- 36** M. Ruiz Ortega; V. Esteban; M. Ruperez; E. Sanchez Lopez; J. Rodriguez Vita; Gisselle Carvajal; Jesus Egido. Renal and vascular hypertension-induced inflammation: role of angiotensin II. Curr Opin Nephrol Hypertens.15 - 2, pp. 159 - 166. 03/2006.
Type of production: Bibliographic review **Format:** Journal
Position of signature: 4
Total no. authors: 7
Source of citations: SCOPUS **Citations:** 108
- 37** M. Ruiz Ortega; M. Ruperez; V. Esteban; J. Rodriguez Vita; E. Sanchez Lopez; G. Carvajal; J. Egido. Angiotensin II: a key factor in the inflammatory and fibrotic response in kidney diseases. Nephrol Dial Transplant.21 - 1, pp. 16 - 20. 09/11/2005.
Type of production: Bibliographic review **Format:** Journal
Position of signature: 5
Total no. authors: 7
Impact source: Clarivate **Category:** UROLOGY & NEPHROLOGY - SCIE
Impact index in year of publication: 2.97 **Journal in the top 25%:** Yes
Source of citations: SCOPUS **Citations:** 218

Works submitted to national or international conferences

- 1** **Title of the work:** Choline uptake and metabolism modulate macrophage immunity
Name of the conference: American Association of Immunologists Annual Meeting. IMMUNOLOGY 2019
City of event: San Diego, United States of America
Date of event: 09/05/2019
End date: 13/05/2019
Organising entity: American Association of Immunologists **Type of entity:** Associations and Groups
City organizing entity: Rockville, United States of America
 Elsa Sanchez Lopez; Zhenyu Zhong; Alexandra Stubellius; Shannon Renee Sweeney; Laela M. Booshehri; Laura Antonucci; Ru Liu-Bryan; Alessia Lodi; Robert Terkeltaub; Juan Carlos Lacal; Anne N. Murphy; Hal M. Hoffman; Stefano Tiziani; Monica Guma; Michael Karin.
- 2** **Title of the work:** Activation of NF- κ B-p62-NRF2 signaling supports the survival of CLL cells that express high levels of ROR1.
Name of the conference: 60th American Society of Hematology Annual Meeting and Exposition
Type of event: Conference
City of event: San Diego, United States of America
Date of event: 01/12/2018



End date: 04/12/2018

Organising entity: American Society of Hematology

Elsa Sanchez Lopez; Emanuela M Ghia; Laura Antonucci; Laura Z Rassenti; Yun Chen; Thomas J Kipps; Michael Karin.

3 Title of the work: Cirmtuzumab Blocks Production Of Proinflammatory Factors By Inhibiting Wnt5a/ROR1 Induced Activation Of NF-Kappa B In Chronic Lymphocytic Leukemia

Name of the conference: 60th American Society of Hematology Annual Meeting and Exposition

Type of event: Conference

City of event: San Diego, United States of America

Date of event: 01/12/2018

End date: 04/12/2018

Organising entity: American Society of Hematology

Yun Chen; Michael Y Choi; Liguang Chen; Jian Yu; Ling Zhang; Emanuela M Ghia; Elsa Sanchez Lopez; George F Widhopf II; Karen Messer; Laura Z Rassenti; Catriona Jamieson; Thomas J Kipps.

4 Title of the work: Role of Choline in gouty inflammation

Name of the conference: American College of Rheumatologist ACR Annual Meeting

Type of event: Conference

City of event: Chicago, United States of America

Date of event: 19/10/2018

End date: 24/01/2019

Organising entity: American College of Rheumatologist

Elsa Sanchez Lopez; Zhenyu Zhong; Alexandra Stubelius; Shannon Renee Sweeney; Ru Liu-Bryan; Juan Carlos Lacal; Stefano Tiziani; Robert Terkeltaub; Monica Guma; Michael Karin.

5 Title of the work: Role of Mitochondrial-Bound HK2 in Rheumatoid Arthritis Fibroblast-like Synoviocytes

Name of the conference: American College of Rheumatologist ACR Annual Meeting

Type of event: Conference

City of event: Chicago, United States of America

Date of event: 19/10/2018

End date: 24/10/2018

Organising entity: American College of Rheumatologist

Patricia G Oliveira; Marta Fernandez Bustmanate; Ricard Garcia Carbonell; Elsa Sanchez Lopez; Teresina Laragione; Percio S. Gulko; Gary S. Firestein; Anne N Murphy; Shigeki Miyamoto; Monica Guma.

6 Title of the work: The Potential Role of Choline Kinase Alpha in Osteoarthritis

Name of the conference: American College of Rheumatologist ACR Annual Meeting

Type of event: Conference

City of event: Chicago, United States of America

Date of event: 19/10/2018

End date: 24/10/2018

Organising entity: American College of Rheumatologist

Roxana Coras; Liang-Yu Chen; Elsa Sanchez Lopez; Martin Lotz; Ru Liu-Bryan; Monica Guma.

7 Title of the work: Mitochondria as positive and negative regulators of the NLRP3 inflammasome

Name of the conference: Immunological aspects of metabolic syndrome

Type of event: Conference

Reasons for participation: Upon invitation

City of event: Snowmass, United States of America

Date of event: 12/08/2018



End date: 17/08/2018

Organising entity: FASEB Science Research Conference
Elsa Sanchez Lopez; Michael Karin.

- 8** **Title of the work:** NF- κ B restricts NLRP3 inflammasome activation via p62-dependent mitophagy which eliminates mitochondrial signals
Name of the conference: American Association of Immunologist (AAI) Annual Meeting
Type of event: Conference
City of event: Seattle, United States of America
Date of event: 13/05/2016
End date: 17/05/2016
Organising entity: American Association of Immunologist
Zhenyu Zhong; Atsushi Umemura; Elsa Sanchez Lopez; Shuang Liang; Shabnam Shalpour; Jerry Wong; Feng He; Daniela Boassa; Guy Perkins; Syed Raza Ali; Matthew G McGeough; Mark H Ellisman; Ekihiro Seki; Asa B Gustafsson; Hal M Hoffman; Maria T Diaz Meco; Jorge Moscat; Michael Karin.
- 9** **Title of the work:** Choline Kinase: a novel target for Rheumatoid arthritis.
Name of the conference: American College of Rheumatology (ACR) Annual Meeting
Type of event: Conference
City of event: San Diego, United States of America
Date of event: 25/10/2013
End date: 30/10/2013
Organising entity: American College of Rheumatology
Monica Guma; Elsa Sanchez Lopez; Alessia Lodi; Stefano Tiziani; Juan Carlos Lacal; Michael Karin; Gary S Firestein.
- 10** **Title of the work:** HSP27 as an adaptive podocyte antiapoptotic mechanism activated by high glucose and Angiotensin II.
Name of the conference: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA).
Type of event: Conference
City of event: Prague, Czech Republic
Date of event: 23/06/2011
End date: 26/06/2011
Organising entity: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA)
Maria Dolores Sanchez Niño; Elsa Sanchez Lopez; Ana Belen Sanz; Marta Ruiz Ortega; Moin A Saleem; Peter W Mathieson; Sergio Mezzano; Jesus Egido de los Rios; Alberto Ortiz.
- 11** **Title of the work:** Inhibition of choline kinase increases endoplasmic reticulum stress proteins
Name of the conference: American Association of Cancer Research
Type of event: Conference
City of event: Orlando, United States of America
Date of event: 02/04/2011
End date: 06/04/2011
Organising entity: American Association of Cancer Research
Elsa Sanchez Lopez; Laura Menchen; Esther Seco; Maria Teresa Gomez del Pulgar; Juan Carlos Lacal; Arancha Cebrian.
- 12** **Title of the work:** Papel del factor de crecimiento del tejido conectivo en el dano renal
Name of the conference: Seminarios Científicos Departamento de Fisiología Universidad de Alcala
Type of event: Seminar



Reasons for participation: Upon invitation

Date of event: 16/03/2009

Organising entity: Departamento de Fisiología Universidad de Alcala

City organizing entity: Alcala de Henares, Spain

Elsa Sanchez Lopez.

- 13** **Title of the work:** Connective tissue growth factor regulates the inflammatory cell infiltration in the kidney through Nuclear factor-kappa B pathway activation.
Name of the conference: Renal Week American Society of Nephrology.
City of event: Philadelphia, United States of America
Date of event: 04/11/2008
End date: 09/11/2008
Organising entity: American Society of Nephrology **Type of entity:** Associations and Groups
City organizing entity: Washington, United States of America
Elsa Sanchez Lopez; Sandra Rayego Mateos; Javier Sanchez Rodriguez; Raquel Rodrigues Diez; Raul Rodrigues Diez; Jon Rodriguez Vita; Luis Stark; Alberto Ortiz; Sergio Mezzano; Jesus Egido de los Rios; Marta Ruiz Ortega.
- 14** **Title of the work:** “La inhibicion del factor nuclear NF-kappa B previene la transicion epiteliomesenquimal renal”
Name of the conference: Congreso XXXVIII S.E.N.
Type of event: Conference
City of event: San Sebastian, Spain
Date of event: 04/10/2008
End date: 07/10/2008
Organising entity: Sociedad Española de Nefrología **Type of entity:** Associations and Groups
Raquel Rodrigues Diez; Javier Sanchez Rodriguez; Raul Rodrigues Diez; Sandra Rayego; Elsa Sanchez Lopez; Rafael Selgas; Jesus Egido; Marta Ruiz Ortega.
- 15** **Title of the work:** Descripción de una nueva función del factor de crecimiento de tejido conectivo CTGF: Modulación del factor nuclear NF-kappa B y la respuesta inflamatoria renal
Name of the conference: Congreso XXXVIII S.E.N.
City of event: San Sebastian, Basque Country, Spain
Date of event: 04/10/2008
End date: 07/10/2008
Organising entity: Sociedad Española de Nefrología **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Elsa Sanchez Lopez; Sandra Rayego Mateos; Javier Sanchez Rodriguez; Raquel Rodrigues Diez; Raul Rodrigues Diez; Luis Stark; Alberto Ortiz; Marta Ruiz Ortega.
- 16** **Title of the work:** La Interleuquina-1b modula la respuesta fibrótica e inflamatoria causada por Angiotensina II. Papel de las rutas de señalización de las MAPK y del factor de transcripción NF- κ B
Name of the conference: V Congreso Iberoamericano de Nefrología.
Type of event: Conference
City of event: Madrid, Community of Madrid, Spain
Date of event: 18/10/2006
End date: 21/10/2006
Organising entity: Sociedad Española de Nefrología **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Elsa Sanchez Lopez; Jon Rodriguez Vita; Monica Ruperez; Vanesa Esteban Vazquez; Giselle Carvajal; Raquel Rodrigues Diez; Jesus Egido; Marta Ruiz Ortega.



- 17** **Title of the work:** Angiotensin II causes epithelial mesenchymal transdifferentiation via activation of Smad and MAPK signaling pathways.
Name of the conference: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA)
Type of event: Conference
City of event: Glasgow, United Kingdom
Date of event: 15/07/2006
End date: 18/07/2016
Organising entity: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA)
Gisselle Carvajal; Monica Ruperez; Elsa Sanchez Lopez; Juan Rodriguez Vita; Raquel Rodrigues Diez; Vanesa Esteban; Sergio Mezzano; Jesus Egido; Marta Ruiz Ortega.
- 18** **Title of the work:** Angiotensin II upregulates renal vascular endothelial growth factor by activation of hypoxia inducible factor 1 alpha and oxidative stress.
Name of the conference: American Society of Nephrology (ASN) Renal Week.
Type of event: Conference
Date of event: 08/11/2005
End date: 13/11/2005
Organising entity: American Society of Nephrology
City organizing entity: Philadelphia, United States of America
Marta Ruiz Ortega; Elsa Sanchez Lopez; Andres Lopez; Vanesa Esteban; Susana Yague; Jesus Egido; Maria Victoria Alvarez Arroyo.
- 19** **Title of the work:** The Rho-kinase pathway regulates angiotensin II-induced renal damage
Name of the conference: American Society of Nephrology (ASN) Renal Week
Type of event: Conference
City of event: Philadelphia, United States of America
Date of event: 08/11/2005
End date: 13/11/2005
Organising entity: American Society of Nephrology
Monica Ruperez; Elsa Sanchez Lopez; Luis Blanco Colio; Vanesa Esteban; Juan Rodriguez Vita; Jesus Egido; Marta Ruiz Ortega.
- 20** **Title of the work:** Angiotensin II Upregulates Renal Vascular Endothelial Growth Factor by Activation of Hypoxia Inducible Factor-1 and Oxidative Stress.
Name of the conference: Renal Week American Society of Nephrology
City of event: Philadelphia, United States of America
Date of event: 08/11/2005
End date: 13/11/2005
Organising entity: American Society of Nephrology
City organizing entity: Washington, United States of America
Elsa Sanchez Lopez; Andres Felipe Lopez; Vanesa Esteban Vazquez; Susana Yague; Jesus Egido de los Rios; Marta Ruiz Ortega; Maria Victoria Alvarez Arroyo.
- 21** **Title of the work:** Angiotensin II regulates vascular endothelial growth factor via hypoxia inducible factor-1? induction and redox mechanisms in the kidney.
Name of the conference: XV European Meeting on Hypertension
City of event: Milan, Italy
Date of event: 17/06/2005
End date: 21/06/2005
Organising entity: European Society of Hypertension



Elsa Sanchez Lopez; Andres Felipe Lopez; Vanesa Esteban; Susana Yague; Jesus Egido; Marta Ruiz Ortega; Maria Victoria Alvarez Arroyo.

- 22** **Title of the work:** Angiotensin II regulates vascular endothelial growth factor via hypoxia inducible factor-1? induction and redox mechanisms in the kidney.
Name of the conference: XV European Meeting on Hypertension
City of event: Milan, Italy
Date of event: 17/06/2005
End date: 21/06/2005
Organising entity: European Society of Hypertension
Elsa Sanchez Lopez; Andres Felipe Lopez; Vanesa Esteban; Susana Yague; Jesus Egido; Marta Ruiz Ortega; Maria Victoria Alvarez Arroyo.
- 23** **Title of the work:** La Inhibicion de la quinasa de Rho mejora el dano renal causado por la Angil. Descripcion de una nueva diana terapeutica
Name of the conference: Congreso de la Sociedad espanola de Nefrologia (SEN)
Type of event: Conference
City of event: Malaga, Spain
Date of event: 2005
End date: 2005
Organising entity: Sociedad Española de Nefrología **Type of entity:** Associations and Groups
Monica Ruperez; Elsa Sanchez Lopez; Luis Blanco; Vanesa Esteban; Juan Rodriguez Vita; Juan Jose Plaza; Jesus Egido; Marta Ruiz Ortega.
- 24** **Title of the work:** Interleukin-1b inhibits connective tissue growth factor and fibronectin production caused by Angiotensin II in mesangial cells.
Name of the conference: XIV European Society of Hypertension Meeting (ESH)
Type of event: Conference
City of event: Paris, France
Date of event: 13/06/2004
End date: 17/06/2004
Organising entity: European Society of Hypertension **Type of entity:** Associations and Groups
Elsa Sanchez Lopez; Monica Ruperez; Vanesa Esteban Vazquez; Jon Rodriguez Vita; Jesus Egido de los Rios; Marta Ruiz Ortega.
- 25** **Title of the work:** HMG-CoA Reductase Inhibitors Decrease Angiotensin II-Induced Connective Tissue Growth Factor In Vascular Smooth Muscle Cells. The role of RhoA/Rho-kinase pathway.
Name of the conference: Gordon Research Conference
Type of event: Conference
City of event: Ventura, United States of America
Date of event: 2004
End date: 2004
Organising entity: Gordon Research Conference
Mónica Rupérez; Luis Miguel Blanco Colio; Elsa Sánchez López; Vanesa Esteban; Juan Rodríguez Vita; Andrés López; Jesús Egido; Marta Ruiz Ortega.
- 26** **Title of the work:** Angiotensin II and Tumor Necrosis Factor-related proteins in renal damage.
Name of the conference: XIII European Society of Hypertension
Type of event: Conference
City of event: Milan, Italy
Date of event: 13/06/2003



End date: 17/06/2003

Organising entity: European Society of Hypertension

Type of entity: Associations and Groups

Elsa Sanchez Lopez; Monica Ruperez; Vanesa Esteban Vazquez; Jon Rodriguez Vita; Jesus Egido de los Rios; Marta Ruiz Ortega.

- 27** **Title of the work:** Angiotensin II increases connective tissue growth factor in the kidney.
Name of the conference: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA).
Type of event: Conference
City of event: Berlin, Germany
Date of event: 2003
End date: 2003
Organising entity: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA).
Monica Ruperez; Esteban Vanesa; Lorenzo Oscar; Sergio Mezzano; Elsa Sanchez Lopez; Juan Rodriguez Vita; Jesus Egido; Marta Ruiz Ortega.
- 28** **Title of the work:** The simultaneous blockade of AT1 and AT2 angiotensin receptors diminishes renal NF-kB activation and inflammatory cell infiltration during kidney damage.
Name of the conference: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA).
Type of event: Conference
City of event: Berlin, Germany
Date of event: 2003
End date: 2003
Organising entity: European Renal Association and European Dialysis and Transplant Association (ERA-EDTA).
Marta Ruiz Ortega; Vanesa Esteban; Monica Ruperez; Oscar Lorenzo; Yusuke Suzuki; Juan Rodriguez Vita; Elsa Sanchez Lopez; Sergio Mezzano; Jesus Egido.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Member_AAI
Primary (UNESCO code): 241200 - Immunology
Affiliation entity: American Association of Immunologist (AAI)
City affiliation entity: Rockville, United States of America
- 2** **Committee title:** Member_Sociedad Española de Inmunología
Primary (UNESCO code): 241200 - Immunology
Affiliation entity: SOCIEDAD ESPAÑOLA DE INMUNOLOGIA



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** University of California San Diego **Type of entity:** University
Faculty, institute or centre: School of Medicine. Pharmacology Department. La
City of entity: La Jolla, United States of America
Start-End date: 01/02/2012 - 31/12/2013 **Duration:** 23 months
Goals of the stay: Visiting Scholar
Provable tasks: Research stay funded by Sara Borrell fellowship under the program ISCIII/MICINN.
- 2** **Entity:** Institute of Molecular Genetics ASCR **Type of entity:** Public Research Body
Faculty, institute or centre: Laboratory of Cell Signaling and Apoptosis
City of entity: Prague, Czech Republic
Start-End date: 01/12/2011 - 22/12/2011 **Duration:** 23 days
Goals of the stay: Post-doctoral
Provable tasks: Research in the context of Oncodeath: Sensitization of solid tumour cells to death receptor related therapies” project, funded under 6th FWP (Sixth Framework Programme)
- 3** **Entity:** Universidad de Salamanca **Type of entity:** University
Faculty, institute or centre: Departamento de Fisiología y Farmacología
City of entity: Salamanca, Spain
Start-End date: 16/10/2009 - 17/10/2009 **Duration:** 2 days
Goals of the stay: Post-doctoral
Provable tasks: Stay as part of collaboration studies of the Renal Disease Research Network. Conducted experiments to evaluate NF-kB activation.
- 4** **Entity:** University of California San Diego **Type of entity:** University Department
Faculty, institute or centre: School of Medicine. Pharmacology Department.
City of entity: La Jolla, United States of America
Start date: 01/01/2014 **Duration:** 4 years - 1 month
Goals of the stay: Post-doctoral
Provable tasks: Conduct research projects in the context of cancer inflammation and immunology.