



## **Francisco J Taberner Sanchis**

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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 lead the Wiring and Function of Somatosensory Circuits Group at Instituto de Neurociencias de Alicante (INA, UMH-CSIC, Spain), where I head the Cell Culture Core Facility.

After my Ph.D. in cell cycle regulation in yeast (4 research articles), I switched my research interest to the cellular and molecular bases of somatosensation and pain. Hereafter, I focused on understanding the fine regulation of sensory ion channels and unraveling new sensory fibers and their contribution to pain. With this in mind, I joined Dr. Antonio Ferrer's group at University Miguel Hernandez in 2010. Here, I successfully delimited the critical regions of the cold receptor channel TRPM8 that allow for the convergent opening in response to menthol and voltage (JBC, 2014). We also described that TRPV1 mediates the analgesic effect of hyaluronan (Nat Comm, 2015) in knee nociceptors.

I moved to Heidelberg to join Germany's principal pain research consortium (SFB1158). Together with Dr. Lechner at University Heidelberg and with Dr. Heppenstall at EMBL, we used optogenetics in the peripheral nervous system for the first time. Since then, we have successfully proven the role of different populations of sensory neurons. Noteworthy, we characterized pinprick pain responding fibers (Neuron, 2017) and underscored the fundamental role of low threshold mechanoreceptors on basal pain sensitivity and coordination of withdrawal reflexes. Furthermore, we molecularly defined the silent nociceptors that respond to mechanical insults only after inflammation (Cell Reports, 2017). We also demonstrated that mechanical hypersensitivity after nerve injury could be reverted by selectively removing TRKB receptor-expressing mechanoreceptors endings by fusing photosensitizers to the cognate ligand BDNF (Nat Comm, 2018). In this regard, we have recently discovered a new mechanism of late allodynia that involves nociceptors (Nature, 2022). Additionally, we characterized a novel sensory fiber that regulates blood flow (Cell Reports, 2021).

Besides my interest in pain-associated fibers, I seek to understand at the molecular level the mechanisms ultimately responsible for mechanical sensing fibers' activation. In this research line, I have described the regions responsible for the unique force sensitivity of force-gated Piezo channels (PNAS, 2019) and the relevance of different Piezo2 domains in the channel function (Nat Comm, 2022). Furthermore, we have also shown that phosphatidylinositol regulates Piezo2 function (eLife, 2018). Lastly, we offered new insight into the development of diabetic neuropathy-derived pain by unveiling the central role of SUMOylation of different proteins, including TRPV1 (Neuron, 2020).

In late 2020, I established my research group supported by the "Investigadores Doctores de Excelencia" funds from the Generalitat Valenciana and the Start-Up funds from the Severo Ochoa Program at INA. The group has two main scientific interests. First, we seek to understand how the different sensory modalities get integrated by spinal cord circuits. We are especially interested in how they counteract each other to alter the final output, as in the case of cold alleviating pain. The final aim is the generation of novel therapeutic approaches to treat



chronic pain. Second, we are also interested in understanding the molecular underpinning of touch, particularly in proteins regulating mechanotransduction at the sensory nerve ending (Schwaller et al., 2021). Additionally, we are actively developing new tools for controlling neural circuits with near-infrared light.

To date, I have authored 22 articles and a book chapter. I have also presented my research at ten national and 19 international congresses (8 oral, two invited speakers. I was an organizer member of an International Workshop on Pain in 2021. Currently, I am leading as Principal Investigator one national and two autonomic research projects. In Germany, I led a pharma-funded research project. Currently, I am the director of two Ph.D. students. I took part in 4 Ph.D. tribunals and evaluated projects for the Agencia Nacional de Promoción de la Investigación, el Desarrollo Tecnológico y la Innovación (ANPIDTYI) de Argentina. In addition, I am a review editor in *Frontiers in Neuroscience*, *Frontiers in Physiology*, *Frontiers in Neurology*, and *Frontiers in Pain Research*. Moreover, I have taught up to 285 hours in different Degrees at UV, Universidad Miguel Hernández, and University Heidelberg, and in the Master in Neuroscience and the Ph.D. program in Molecular and Cellular Biology at University Miguel Hernández. Over the years, the group has generated numerous collaborations with other research national and international research groups, including Dr. Heppenstall (SISSA, Italy); Dr. Lechner, Dr. Kuner, and Dr. Freichel (U. Heidelberg, Germany); Dr. Lewin (MDC, Berlin); Dr. Ferrer-Montiel (UMH, Spain), Dr. Viana (CSIC, Spain).

## Francisco J Taberner Sanchis

Surname(s): **Taberner Sanchis**  
Name: **Francisco J**  
ORCID: **0000-0001-5725-6267**  
ScopusID: **13609656700**  
ResearcherID: **AAA-9402-2019**  
Contact aut. region/reg.: **Valencian Community**  
Personal web page: **<http://in.umh-csic.es/IP/TabernerSanchis.html>**

### Current professional situation

**Employing entity:** Instituto de Neurociencias de Alicante **Type of entity:** University Research Institute  
**Department:** Instituto de Neurociencias de Alicante  
**Professional category:** Principal Investigators  
**Start date:** 01/10/2020  
**Type of contract:** Temporary employment contract

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Consejo Superior de Investigaciones Científicas	Investigador doctor	08/06/2020
2	University Heidelberg	Postdoctoral Researcher	01/07/2019
3	European Molecular Biology Laboratory	Postdocotoral fellow	01/07/2016
4	Universität Heidelberg	Postdoctoral Researcher	01/05/2015
5	Universidad Miguel Hernández de Elche	Investigador científico	01/04/2010
6	Universitat de València	Técnico superior de investigación	18/05/2009
7	Universitat de València	Técnico medio de investigación	01/06/2008
8	Universitat de València	Becario UVEG a cargo de proyecto	16/09/2007
9	Universitat de València	Técnico medio de investigación	03/05/2007
10	Universitat de València	Becario UVEG a cargo de proyecto	17/07/2006
11	Ministerio de Educación y Ciencia	Becario FPI	01/07/2002
12	Ministerio de Educación, Cultura y Deporte	Becario de colaboración	21/10/2000

**1** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Professional category:** Investigador doctor  
**Start-End date:** 08/06/2020 - 30/09/2020



- 2** **Employing entity:** University Heidelberg **Type of entity:** University Research Institute  
**Professional category:** Postdoctoral Researcher  
**Start-End date:** 01/07/2019 - 01/06/2020 **Duration:** 11 months  
**Type of contract:** Temporary employment contract  
**Performed tasks:** Esta estancia postdoctoral me está permitiendo adquirir conocimientos prácticos en optogenética en el sistema nervioso periférico para el estudio de la contribución de las diferentes fibras nerviosas en dolor. Combinando técnicas de optogenética, comportamiento y la caracterización de las fibras nerviosas por medio de Skin Nerve recordings, estamos descubriendo contribuciones de los diferentes tipos de fibras en dolor que no se habían podido describir con anterioridad. Así mismo, no sólo estoy adquiriendo sólidos conocimientos en estas técnicas sino que el excelente y dinámico ambiente científico del Instituto de Farmacología, el principal centro alemán en el campo del dolor, me permite estar a la vanguardia de los conocimientos generados en neurobiología del dolor tanto a nivel periférico como central.
- 3** **Employing entity:** European Molecular Biology Laboratory **Type of entity:** R&D Centre  
**Professional category:** Postdoctoral fellow  
**Start-End date:** 01/07/2016 - 30/06/2019 **Duration:** 3 years  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)
- 4** **Employing entity:** Universität Heidelberg **Type of entity:** University  
**Professional category:** Postdoctoral Researcher  
**Start-End date:** 01/05/2015 - 30/06/2016 **Duration:** 1 year - 2 months  
**Type of contract:** Temporary employment contract
- 5** **Employing entity:** Universidad Miguel Hernández **Type of entity:** University de Elche  
**Department:** Departamento de Bioquímica y Biología Molecular, Instituto Universitario de Biología Molecular y Celular  
**City employing entity:** Elche, Valencian Community, Spain  
**Professional category:** Investigador científico  
**Start-End date:** 01/04/2010 - 01/05/2015  
**Type of contract:** Temporary employment contract  
**Primary (UNESCO code):** 240300 - Biochemistry  
**Secondary (UNESCO code):** 249001 - Neurophysiology  
**Performed tasks:** Investigación sobre la implicación de los canales termorreceptores en dolor. Biología Molecular de canales iónicos.  
**Identify key words:** Pain (cephalic, fibromialgic, others)  
**Applicability in teaching and/or research:** Esta actividad principalmente de carácter investigador, me ha permitido profundizar en los mecanismos moleculares del dolor que después he podido transmitir en algunas clases impartidas en la UMH
- 6** **Employing entity:** Universitat de València **Type of entity:** University  
**Department:** Departament de Bioquímica i Biologia Molecular, Facultat de Ciències Biològiques  
**Professional category:** Técnico superior de investigación  
**Start-End date:** 18/05/2009 - 22/11/2009 **Duration:** 6 months - 4 days  
**Type of contract:** Temporary employment contract
- 7** **Employing entity:** Universitat de València **Type of entity:** University  
**Department:** Departament de Bioquímica i Biologia Molecular, Facultat de Ciències Biològiques  
**Professional category:** Técnico medio de investigación  
**Start-End date:** 01/06/2008 - 22/04/2009 **Duration:** 10 months - 22 days



**Type of contract:** Temporary employment contract

- 8** **Employing entity:** Universitat de València **Type of entity:** University  
**Professional category:** Becario UVEG a cargo de proyecto  
**Start-End date:** 16/09/2007 - 31/01/2008 **Duration:** 4 months - 15 days
- 9** **Employing entity:** Universitat de València **Type of entity:** University  
**Department:** Departament de Bioquímica i Biologia Molecular, Facultat de Ciències Biològiques  
**Professional category:** Técnico medio de investigación  
**Start-End date:** 03/05/2007 - 02/08/2007 **Duration:** 3 months  
**Type of contract:** Temporary employment contract
- 10** **Employing entity:** Universitat de València **Type of entity:** University  
**Professional category:** Becario UVEG a cargo de proyecto  
**Start-End date:** 17/07/2006 - 15/03/2007 **Duration:** 8 months - 2 days
- 11** **Employing entity:** Ministerio de Educación y Ciencia **Type of entity:** State agency  
**Professional category:** Becario FPI  
**Start-End date:** 01/07/2002 - 30/06/2006 **Duration:** 4 years  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)
- 12** **Employing entity:** Ministerio de Educación, Cultura y Deporte **Type of entity:** State agency  
**Professional category:** Becario de colaboración  
**Start-End date:** 21/10/2000 - 21/11/2001 **Duration:** 10 months



## Education

### University education

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

**University degree:** Higher degree

**Name of qualification:** Licenciado en Bioquímica y Biología Molecular

**City degree awarding entity:** Valencia, Valencian Community, Spain

**Degree awarding entity:** Universitat de València **Type of entity:** University

**Date of qualification:** 27/07/2001

#### Doctorates

**Doctorate programme:** Bioquímica, Biología Molecular y Biomedicina

**Degree awarding entity:** Universitat de València **Type of entity:** University

**City degree awarding entity:** Valencia, Valencian Community, Spain

**Date of degree:** 12/02/2009

**DEA awarding entity:** Universitat de València

**Date DEA was awarded:** 13/12/2004

**European doctorate:** No

**Thesis title:** Control del ciclo celular por la carioferina Msn5 en Saccharomyces cerevisiae

**Thesis director:** Juan Carlos Igual García

**Obtained qualification:** Sobresaliente Cum Laude

#### Other postgraduate university studies

**Postgraduate qualification:** Diploma de Estudios Avanzados (Master)

**Degree awarding entity:** Universitat de València **Type of entity:** University

**Faculty, institute or centre:** Departament de Bioquímica i Biología Molecular

**Date of qualification:** 13/12/2004

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

- 1 Training title:** EMBO Laboratory Leadership for Postdocs  
**Awarding entity:** EMBO Laboratory  
**End date:** 20/10/2021 **Duration in hours:** 22 hours
- 2 Training title:** Grant writing workshop  
**Awarding entity:** ProSciencia Beratungs-GmbH  
**End date:** 06/07/2018 **Type of entity:** Business  
**Duration in hours:** 15 hours



- 3** **Training title:** Statistical methods in bioinformatics  
**Awarding entity:** European Molecular Biology Laboratory  
**End date:** 02/03/2018  
**Type of entity:** R&D Centre  
**Duration in hours:** 17 hours
- 4** **Training title:** Library Preparation Course  
**Awarding entity:** Roche Diagnostics Deutschland GmbH  
**End date:** 30/11/2017  
**Type of entity:** Business  
**Duration in hours:** 15 hours
- 5** **Training title:** An R introduction using the tidyverse  
**Awarding entity:** European Molecular Biology Laboratory  
**End date:** 20/01/2017  
**Type of entity:** R&D Centre  
**Duration in hours:** 17 hours
- 6** **Training title:** Zeiss technology workshop  
**Awarding entity:** CNIC-Zeiss  
**End date:** 19/02/2015  
**Duration in hours:** 26 hours
- 7** **Training title:** Planificación del trabajo y gestión de equipos  
**Awarding entity:** Universitat de Barcelona  
**End date:** 09/04/2013  
**Type of entity:** University  
**Duration in hours:** 75 hours
- 8** **Type of training:** Course  
**Training title:** Personal responsable del diseño y dirección de procedimientos experimentales con animales  
**City awarding entity:** San Juan de Alicante, Valencian Community, Spain  
**Awarding entity:** Universidad Miguel Hernández de Elche  
**Type of entity:** University  
**Training manager:** José A. Pérez de Gracia Hernández  
**End date:** 20/10/2012  
**Duration in hours:** 80 hours
- 9** **Type of training:** Course  
**Training title:** I International Spring Course "Measuring secretion"  
**City awarding entity:** La Frontera, Canary Islands, Spain  
**Awarding entity:** Universidad de La Laguna  
**Type of entity:** University  
**Training manager:** Ricardo Borges Jurado  
**End date:** 17/05/2012  
**Duration in hours:** 30 hours
- 10** **Type of training:** Course  
**Training title:** WOK Presencia: Nivel Avanzado  
**City awarding entity:** Elche, Valencian Community, Spain  
**Awarding entity:** Fundación Española para la Ciencia y la Tecnología  
**Type of entity:** Fundación  
**Training manager:** Cristina González Copeiro  
**End date:** 17/04/2012  
**Duration in hours:** 3 hours
- 11** **Type of training:** Course  
**Training title:** WOK Presencia: Nivel Básico  
**City awarding entity:** Elche, Valencian Community, Spain  
**Awarding entity:** Fundación Española para la Ciencia y la Tecnología  
**Type of entity:** Fundación





**Training manager:** Cristina González Copeiro

**End date:** 17/04/2012

**Duration in hours:** 2 hours

**12 Training title:** Information sources in Biotechnology- SLING

**Awarding entity:** Oficina española de patentes y marcas

**End date:** 29/09/2011

**Duration in hours:** 7 hours

**13 Training title:** Ion channels and diseases of the nervous system

**Awarding entity:** Universidad Internacional de Andalucía

**End date:** 04/11/2010

**Type of entity:** University

**Duration in hours:** 25 hours

**14 Type of training:** Course

**Training title:** Curso de Postgrado Resonancia Magnética Nuclear: Aplicaciones en Química y Bioquímica

**City awarding entity:** Sevilla, Andalusia, Spain

**Awarding entity:** Centro de Investigaciones Científicas Isla de la Cartuja (CIC)

**Training manager:** Pedro M. Nieto

**End date:** 24/06/2010

**Type of entity:** University Centres and Structures and Associated Bodies

**Duration in hours:** 30 hours

**15 Type of training:** Course

**Training title:** VI Encuentro Internacional sobre el Proyecto del Genoma Humano: Transplantes y Clonación Humana

**City awarding entity:** Valencia, Valencian Community, Spain

**Awarding entity:** Universidad Internacional Menéndez Pelayo

**Training manager:** Santiago Grisolia

**End date:** 20/10/1999

**Type of entity:** University

**Duration in hours:** 30 hours

**16 Type of training:** Course

**Training title:** Teorías de la Extinción: Perspectiva y Prospectiva

**City awarding entity:** Valencia, Valencian Community, Spain

**Awarding entity:** Universidad Internacional Menéndez Pelayo

**Training manager:** Miquel de Renzi

**End date:** 15/10/1999

**Type of entity:** University

**Duration in hours:** 30 hours

**17 Type of training:** Course

**Training title:** English as a Foreign Language Summer School

**City awarding entity:** Luton, Bedfordshire and Hertfordshire, United Kingdom

**Awarding entity:** University of Luton

**Training manager:** Tim Boastwain

**End date:** 26/09/1994

**Duration in hours:** 80 hours



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

- 1 Title of course/seminar:** Diseño de planes docentes en actividades formativas on-line  
**Goals of the course/seminar:** Adaptación del diseño de planes docentes a actividades formativas on-line  
**Organising entity:** Universitat de Barcelona **Type of entity:** University  
**Duration in hours:** 50 hours  
**Start-End date:** 27/10/2015 - 04/12/2015
- 2 Title of course/seminar:** Web 2.0 y Docencia Universitaria: Proyecto de Uso de Blogs  
**Goals of the course/seminar:** Adaptación de la educación superior a las tecnologías de la información y la comunicació  
**Organising entity:** Universitat de Barcelona **Type of entity:** University  
**Faculty, institute or centre:** Institut de Ciències de la Educació  
**Duration in hours:** 30 hours  
**Start-End date:** 23/10/2012 - 21/12/2012
- 3 Title of course/seminar:** Competencias básicas para el profesorado universitario  
**Goals of the course/seminar:** Adaptación de la educación superior a la enseñanza por competencias  
**Organising entity:** Universitat de Barcelona **Type of entity:** University  
**Faculty, institute or centre:** Institut de Ciències de la Educació  
**Duration in hours:** 30 hours  
**Start-End date:** 28/02/2012 - 11/05/2012
- 4 Title of course/seminar:** Curso de aptitud pedagógica  
**Organising entity:** Universitat de València **Type of entity:** University  
**Duration in hours:** 300 hours  
**Start-End date:** 12/11/2001 - 31/03/2002

## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	B2	B2	B2	B2	B2
English	C1	C1	C1	C1	C1
Catalan	C2	C2	C2	C2	C2

## Teaching experience



## General teaching experience

- 1** **Type of teaching:** Official teaching  
**Name of the course:** Pharmakologisch-toxikologischer Demonstrationkurs für Pharmazeuten  
**Type of programme:** Bachelor's degree  
**Type of subject:** Core  
**University degree:** Pharmacy Degree  
**Course given:** Cuarto  
**Start date:** 04/2019 **End date:** 05/2019  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 30  
**Entity:** Ruprecht-Karls-Universität Heidelberg **Type of entity:** University  
**Faculty, institute or centre:** Pharmakologisches Institut der Medizinischen Fakultät  
**Department:** Pharmakologisches Institut  
**City of entity:** Heidelberg, Germany  
**Subject language:** English
- 2** **Type of teaching:** Official teaching  
**Name of the course:** Pharmakologisch-toxikologischer Demonstrationkurs für Pharmazeuten  
**Type of programme:** Bachelor's degree  
**Type of subject:** Core  
**University degree:** Pharmacy Degree  
**Course given:** Cuarto  
**Start date:** 03/2016 **End date:** 05/2017  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 15  
**Entity:** Ruprecht-Karls-Universität Heidelberg **Type of entity:** University  
**Faculty, institute or centre:** Pharmakologisches Institut der Medizinischen Fakultät  
**Department:** Pharmakologisches Institut  
**City of entity:** Heidelberg, Germany  
**Subject language:** English
- 3** **Type of teaching:** Official teaching  
**Name of the course:** BIOQUÍMICA  
**Type of programme:** Bachelor's degree **Type of teaching:** Laboratory work  
**Type of subject:** Optional  
**University degree:** GRADO DE BIOTECNOLOGIA / GRADO C. AMBIENTALES  
**Course given:** 1º  
**Start date:** 01/10/2013 **End date:** 30/06/2014  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 15  
**Entity:** Universidad Miguel Hernández de Elche **Type of entity:** University  
**Department:** BIOQUÍMICA Y BIOLOGÍA MOLECULAR  
**City of entity:** ELCHE, Valencian Community, Spain  
**Subject language:** English
- 4** **Type of teaching:** Official teaching  
**Name of the course:** DESARROLLO DE MOLECULAS BIOACTIVAS  
**Type of programme:** Bachelor's degree **Type of teaching:** Laboratory work



**Type of subject:** Core

**University degree:** GRADO DE BIOTECNOLOGIA

**Course given:** 4º

**Start date:** 01/10/2013

**End date:** 30/06/2014

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 18

**Entity:** Universidad Miguel Hernández de Elche

**Type of entity:** University

**Department:** BIOQUÍMICA Y BIOLOGÍA MOLECULAR

**City of entity:** ELCHE, Valencian Community, Spain

**Subject language:** Spanish

**5** **Type of teaching:** Official teaching

**Name of the course:** Laboratorio Integrado de Experimentación Bioquímica II

**Type of programme:** Bachelor's degree

**Type of teaching:** Laboratory work

**Type of subject:** Core

**University degree:** Licenciado en Bioquímica

**Course given:** Quinto

**Start date:** 2011

**End date:** 2012

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 20

**Entity:** Universidad Miguel Hernández de Elche

**Type of entity:** University

**Faculty, institute or centre:** Instituto Universitario de Biología Molecular y Celular

**Department:** Bioquímica y Biología Molecular

**City of entity:** Elche, Valencian Community, Spain

**Subject language:** Spanish

**6** **Type of teaching:** Official teaching

**Name of the course:** Functional Genomics and Proteomics

**Type of programme:** Doctorate

**Type of teaching:** In person theory

**Type of subject:** Doctorate

**University degree:** Doctorado en Biología Molecular y Celular

**Start date:** 2010

**End date:** 2011

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1

**Entity:** Universidad Miguel Hernández de Elche

**Type of entity:** University

**Faculty, institute or centre:** Instituto Universitario de Biología Molecular y Celular

**Department:** Bioquímica y Biología Molecular

**City of entity:** Elche, Valencian Community, Spain

**Subject language:** English

**7** **Type of teaching:** Official teaching

**Name of the course:** Biosíntesis de Macromoléculas y Regulación del Metabolismo

**Type of programme:** Bachelor's degree

**Type of teaching:** In person theory

**Type of subject:** Core

**University degree:** Licenciado en Bioquímica

**Course given:** Quinto

**Start date:** 2010

**End date:** 2011

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,3

**Entity:** Universidad Miguel Hernández de Elche

**Type of entity:** University

**Faculty, institute or centre:** Instituto Universitario de Biología Molecular y Celular



**Department:** Bioquímica y Biología Molecular  
**City of entity:** Elche, Valencian Community, Spain  
**Subject language:** Spanish

**8** **Type of teaching:** Official teaching  
**Name of the course:** Laboratorio Integrado de Experimentación Bioquímica II  
**Type of programme:** Bachelor's degree **Type of teaching:** Laboratory work  
**Type of subject:** Core  
**University degree:** Licenciado en Bioquímica  
**Course given:** Quinto  
**Start date:** 2010 **End date:** 2011  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 15  
**Entity:** Universidad Miguel Hernández de Elche **Type of entity:** University  
**Faculty, institute or centre:** Instituto Universitario de Biología Molecular y Celular  
**Department:** Bioquímica y Biología Molecular  
**City of entity:** Elche, Valencian Community, Spain  
**Subject language:** Spanish

**9** **Type of teaching:** Official teaching  
**Name of the course:** Técnicas Instrumentales y analíticas  
**Professional category:** Becario  
**Type of programme:** Bachelor's degree **Type of teaching:** Laboratory work  
**Type of subject:** Obligatory  
**Assessment type:** Survey  
**University degree:** Licenciado en Biología  
**Course given:** Quinto  
**Start date:** 2005 **End date:** 2006  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 6  
**Entity:** Universitat de València **Type of entity:** University  
**Faculty, institute or centre:** Facultat de Ciències Biològiques  
**Department:** Bioquímica i Biologia Molecular  
**City of entity:** Valencia, Valencian Community, Spain  
**Assessment type:** Survey  
**Subject language:** Catalan

**10** **Type of teaching:** Official teaching  
**Name of the course:** Técnicas Instrumentales y analíticas  
**Professional category:** Becario  
**Type of programme:** Bachelor's degree **Type of teaching:** Laboratory work  
**Type of subject:** Obligatory  
**Assessment type:** Survey  
**University degree:** Licenciado en Biología  
**Course given:** Quinto **Frequency of the activity:** 2  
**Start date:** 2004 **End date:** 2005  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 1  
**Entity:** Universitat de València **Type of entity:** University  
**Faculty, institute or centre:** Facultat de Ciències Biològiques  
**Department:** Bioquímica i Biologia Molecular



**City of entity:** Valencia, Valencian Community, Spain  
**Assessment type:** Survey  
**Subject language:** Spanish

- 11** **Type of teaching:** Official teaching  
**Name of the course:** Tecnología de Proteínas  
**Professional category:** Becario  
**Type of programme:** Bachelor's degree  
**Type of subject:** Optional  
**Assessment type:** Survey  
**University degree:** Licenciado en Bioquímica  
**Course given:** Quinto  
**Start date:** 2004  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 2,4  
**Entity:** Universitat de València  
**Faculty, institute or centre:** Facultad de Ciencias Biológicas  
**Department:** Bioquímica i Biologia Molecular  
**City of entity:** Valencia, Valencian Community, Spain  
**Assessment type:** Survey  
**Subject language:** Catalan
- Type of teaching:** Laboratory work  
**End date:** 2005  
**Type of entity:** University

### Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** DESCUBRIMIENTO Y ANALISIS FUNCIONAL DE PROTEINAS ASOCIADAS A PIEZO2 EN LOS TERMINALES NERVIOSOS DE RECEPTORES DEL TACTO.  
**Entity:** Universidad Miguel Hernández de Elche  
**Student:** Sergio Sarrió Ferrández  
**Date of reading:** 09/2025  
**Type of entity:** University
- 2** **Project title:** Characterization of spinal cord circuits involved in cold/burning-pain sensory crosstalk and its therapeutic applications in chronic pain relief.  
**Entity:** Universidad Miguel Hernández de Elche  
**Student:** Chiara Nappi  
**Date of reading:** 09/2024  
**Type of entity:** University

### Participation in conferences with talks focused on teacher training

**Name of the event:** CIDUI 2016  
**Type of event:** Conference  
**City of event:** Barcelona, Catalonia, Spain  
**Date of presentation:** 05/06/2016  
**Organising entity:** Universitat de Barcelona  
**Type of entity:** University



## 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:** Functional and cellular characterization of spinal cord circuits involved in chronic pain.  
**Entity where project took place:** Instituto de Neurociencias de Alicante **Type of entity:** University Research Institute  
**City of entity:** San Juan de Alicante, Valencian Community, Spain  
**Name principal investigator (PI, Co-PI....):** Francisco J Taberner Sanchis  
**Nº of researchers:** 1  
**Funding entity or bodies:** Conselleria d'Educació, Investigació, Cultura i esports **Type of entity:** State agency  
**City funding entity:** Valencia, Valencian Community, Spain  
**Start-End date:** 01/10/2020 - 30/09/2024  
**Total amount:** 409.100 €
- 2** **Name of the project:** Descubrimiento y análisis funcional de proteínas asociadas a Piezo2 en los terminales nerviosos de los receptores del tacto (PID2020-116381GA-I00)  
**Entity where project took place:** Instituto de Neurociencias de Alicante **Type of entity:** State agency  
**City of entity:** San Juan de Alicante,  
**Name principal investigator (PI, Co-PI....):** Francisco J Taberner Sanchis  
**Nº of researchers:** 1  
**Start-End date:** 01/09/2021 - 31/12/2023  
**Total amount:** 157.300 €
- 3** **Name of the project:** Silent Nociceptors in mice and humans  
**Entity where project took place:** University Heidelberg **Type of entity:** University  
**City of entity:** Heidelberg, Germany  
**Name principal investigator (PI, Co-PI....):** Martin Schmeltz; Stefan G Lechner  
**Nº of researchers:** 4  
**Funding entity or bodies:** DFG, German Research Foundation **Type of entity:** State agency  
**City funding entity:** Berlin, Germany  
**Start-End date:** 01/07/2019 - 30/06/2023  
**Total amount:** 671.301 €
- 4** **Name of the project:** Rapid generation of wide-strain vaccines based on viral multi-epitope decoration (Viral-MED)  
**Entity where project took place:** Instituto de Neurociencias de Alicante **Type of entity:** University Research Institute  
**City of entity:** San Juan de Alicante,  
**Name principal investigator (PI, Co-PI....):** Francisco J Taberner Sanchis; Cristina García Frigola



**Nº of researchers:** 2

**Funding entity or bodies:**

Generalitat Valenciana

**Type of entity:** Public funding

**Start-End date:** 01/02/2022 - 31/12/2022

**Total amount:** 88.715 €

**5 Name of the project:** A viral approach for fast and simultaneous expression of transgens in different populations of somatosensory neurons

**Entity where project took place:** Institute of Pharmacology / University Heidelberg

**City of entity:** Heidelberg, Germany

**Name principal investigator (PI, Co-PI....):** Francisco J Taberner

**Nº of researchers:** 1

**Funding entity or bodies:**

Grünenthal / SFB1158

**Type of entity:** Business

**City funding entity:** Germany

**Start-End date:** 02/10/2019 - 30/06/2020

**Total amount:** 14.900 €

**6 Name of the project:** Defining the contribution of C-fibre low threshold mechanoreceptors to nociception, acute pain and pain chronicity.

**Entity where project took place:** European

**Type of entity:** R&D Centre

Molecular Biology Laboratory

**Name principal investigator (PI, Co-PI....):** Paul Heppenstall

**Nº of researchers:** 5

**Funding entity or bodies:**

German Research Foundation (DFG)

**Type of entity:** State agency

**City funding entity:** Germany

**Start-End date:** 01/06/2015 - 30/06/2019

**Total amount:** 255.560 €

**7 Name of the project:** An optogenetic approach for studying the cellular and molecular mechanism of A-fibre nociceptor-evoked acute and inflammatory pain.

**Entity where project took place:** University

**Type of entity:** University

Heidelberg

**City of entity:** Heidelberg, Germany

**Name principal investigator (PI, Co-PI....):** Stefan Lechner

**Nº of researchers:** 4

**Funding entity or bodies:**

German Research Foundation (DFG)

**Type of entity:** State agency

**City funding entity:** Germany

**Start-End date:** 01/08/2016 - 31/07/2018

**Total amount:** 280.000 €

**8 Name of the project:** Identification of a yet unknown ion channel that detects painful mechanical stimuli

**Entity where project took place:** University

**Type of entity:** University

Heidelberg

**City of entity:** Heidelberg, Germany

**Name principal investigator (PI, Co-PI....):** Stefan Lechner

**Nº of researchers:** 4

**Funding entity or bodies:**





University Heidelberg intramural fundings  
**City funding entity:** Heidelebrg, Germany

**Type of entity:** University

**Start-End date:** 01/01/2015 - 31/12/2015

**Total amount:** 44.000 €

**9 Name of the project:** Mecanismos y Modulación Farmacológica de la Sensibilización inflamatoria de nociceptores

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

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

**Nº of researchers:** 10

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Gobierno de España

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/01/2013 - 31/12/2015

**Total amount:** 378.730 €

**10 Name of the project:** On the role of skin touch receptors in pain hypersensitivity after nerve injury and inflammation

**Entity where project took place:** Univeristy Heidelberg

**Type of entity:** University

**City of entity:** Heidelberg, Germany

**Name principal investigator (PI, Co-PI....):** Stefan Lechner

**Nº of researchers:** 4

**Funding entity or bodies:**

German Research Fundation (DFG)

**Type of entity:** State agency

**City funding entity:** Germany

**Start-End date:** 01/08/2013 - 31/07/2015

**Total amount:** 480.000 €

**11 Name of the project:** The Spanish Ion Channel Initiative (SICI)

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

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

**Nº of researchers:** 140

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Gobierno de España

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/01/2008 - 31/12/2013

**Total amount:** 6.000.000 €

**12 Name of the project:** Mecanismos Neuronales de Sensibilización Inflamatoria Periférica

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

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

**Nº of researchers:** 10

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Gobierno de España

**City funding entity:** Madrid, Community of Madrid, Spain



**Start-End date:** 01/01/2009 - 31/12/2012

**Total amount:** 383.000 €

**13 Name of the project:** Mecanismos de regulación espacial en el control del ciclo celular

**Entity where project took place:** Universitat de València **Type of entity:** University

**City of entity:** Valencia, Valencian Community, Spain

**Name principal investigator (PI, Co-PI....):** Juan Carlos Igual García

**Nº of researchers:** 3

**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

**City funding entity:** Spain

**Start-End date:** 31/12/2004 - 31/12/2007

**Total amount:** 188.200 €

**14 Name of the project:** Mecanismos de regulación espacial en el control del ciclo celular

**Entity where project took place:** Universitat de València **Type of entity:** University

**City of entity:** Valencia, Valencian Community, Spain

**Name principal investigator (PI, Co-PI....):** Juan Carlos Igual García

**Nº of researchers:** 3

**Funding entity or bodies:**

Generalitat Valenciana

**Type of entity:** Gobierno autonómico

**City funding entity:** Valencia, Valencian Community, Spain

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

**Total amount:** 15.558 €

**15 Name of the project:** Ayuda a grupos: Biología Molecular y Celular de levaduras

**Entity where project took place:** Universitat de València **Type of entity:** University

**City of entity:** Valencia, Valencian Community, Spain

**Name principal investigator (PI, Co-PI....):** Juan Carlos Igual García

**Nº of researchers:** 7

**Funding entity or bodies:**

Generalitat Valenciana

**Type of entity:** Gobierno autonómico

**City funding entity:** Valencia, Valencian Community, Spain

**Start-End date:** 01/01/2004 - 31/12/2005

**Total amount:** 45.322 €

**16 Name of the project:** Controles Internos en la iniciación del ciclo celular de *Saccharomyces cerevisiae*

**Entity where project took place:** Universitat de València **Type of entity:** University

**City of entity:** Valencia, Valencian Community, Spain

**Name principal investigator (PI, Co-PI....):** Juan Carlos Igual García

**Nº of researchers:** 5

**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

**City funding entity:** Spain

**Start-End date:** 31/12/2002 - 31/12/2004

**Total amount:** 190.821 €**R&D non-competitive contracts, agreements or projects with public or private entities****Name of the project:** Patrones epigenéticos en la proliferación celular**Identify key words:** Biomedicine**Type of project:** Basic research (including archaeological digs, etc)**Entity where project took place:** University of Valencia**Degree of contribution:** Researcher**Entity where project took place:** University of Valencia**Name principal investigator (PI, Co-PI....):** Gerardo López Rodas; Luis Franco Vera**Nº of researchers:** 2**Funding entity or bodies:**

University of Valencia

**Type of entity:** University**Start date:** 01/05/2009**Duration:** 6 months**Scientific and technological activities****Scientific production****H index:** 11**Date of application:** 05/07/2022**Fuente de Índice H:** WOS**Publications, scientific and technical documents**

- 1** Francisco J Taberner; Vincenzo Prato; Irina Schaefer; Katrin Schrenk-Siemens; Paul Heppenstall; Stefan Lechner. Structure-guided examination of the mechanogating mechanism of PIEZO2. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 116 - 28, pp. 14260 - 14269. NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 09/07/2019. ISSN 0027-8424

**DOI:** 10.1073/pnas.1905985116**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 6**Corresponding author:** No**Impact source:** ISI**Category:** Multidisciplinary**Impact index in year of publication:** 9.58**Journal in the top 25%:** Yes**Position of publication:** 7**No. of journals in the cat.:** 69**Source of citations:** WOS**Citations:** 32**Relevant publication:** Yes

- 2** Rahul Dhandapani; Cintia M Arokiaraj; Francisco J Taberner Sanchis; Paola Pacifico; S Raja; Linda Nocchi; C Portulano; Federica Franciosa; Mariano Maffei; AF Hussain; Fernanda de Castro Reis; L Reymonds; E Perlas; S Garcovich; S Barth; K Johnsson; Stefan G Lechner; Paul A Heppenstall. Control of mechanical pain hypersensitivity in mice through ligand-targeted photoablation of TrkB-positive sensory neurons. Nature Communications. 9 - 1, Nature Publishing Group, 24/04/2018. Available on-line at: <<https://www.nature.com/articles/s41467-018-04049-3>>.

**DOI:** 10.1038/s41467-018-04049-3**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 18**Impact source:** ISI**Impact index in year of publication:** 12.12**Position of publication:** 3**Source of citations:** WOS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64**Citations:** 46

- 3** Vincenzo Prato; Francisco J Taberner Sanchis; James RF Hockley; Gerard Callejo; Alice Arcourt; Bassim Tazir; Leoni Hammer; Paulina Schad; Paul A Heppenstall; Ewan S Smith; Stefan G Lechner. Functional and Molecular Characterization of Mechanoinsensitive "Silent" Nociceptors. *Cell Reports*. 21 - 11, pp. 3102 - 3115. Cell Press, 12/12/2017. Available on-line at: <[https://www.cell.com/cell-reports/fulltext/S2211-1247\(17\)31718-7?\\_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS2211124717317187%3Fshowall%3Dtrue](https://www.cell.com/cell-reports/fulltext/S2211-1247(17)31718-7?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS2211124717317187%3Fshowall%3Dtrue)>.

**DOI:** 10.1016/j.celrep.2017.11.066**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 11**Impact source:** ISI**Impact index in year of publication:** 8.032**Position of publication:** 28**Source of citations:** WOS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - CELL BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 190**Citations:** 62

- 4** 1; Alice Arcourt; Louise Gorham; Rahul Dhandapani; Vincenzo Prato; Francisco J Taberner; Hagen Wende; Vijayan Gangadharan; Carmen Birchmeier; Paul Heppenstall. Touch Receptor-Derived Sensory Information Alleviates Acute Pain Signaling and Fine-Tunes Nociceptive Reflex Coordination. *Neuron*. Cell Press, 04/01/2017. Available on-line at: <[https://www.cell.com/neuron/fulltext/S0896-6273\(16\)30865-0?\\_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS0896627316308650%3Fshowall%3Dtrue](https://www.cell.com/neuron/fulltext/S0896-6273(16)30865-0?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS0896627316308650%3Fshowall%3Dtrue)>.

**DOI:** 10.1016/j.neuron.2016.11.027**Type of production:** Scientific paper**Position of signature:** 5**Total no. authors:** 10**Impact source:** ISI**Impact index in year of publication:** 14.319**Position of publication:** 7**Source of citations:** WOS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - NEUROSCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 261**Citations:** 109

- 5** FRANCISCO JOSÉ TABERNER SANCHIS; GREGORIO FERNANDEZ BALLESTER; ASIA FERNANDEZ CARVAJAL; ANTONIO FERRER MONTIEL. TRP CHANNELS INTERACTION WITH LIPIDS AND ITS IMPLICATIONS IN DISEASE. *BBA BIOMEMBRANES*. 1848 - 9, pp. 1818 - 1827. ELSEVIER, 09/2015. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0005273615001017?via%3Dihub>>.

**DOI:** 10.1016/j.bbamem.2015.03.022



**Type of production:** Scientific paper  
**Corresponding author:** No  
**Impact source:** ISI  
**Impact index in year of publication:** 3.84  
**Position of publication:** 18  
**Source of citations:** WOS  
**Relevant publication:** Yes

**Format:** Journal

**Category:** Science Edition - BIOPHYSICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 73  
**Citations:** 34

- 6 REBECA CAIRES; LUIS ENOCH; FRANCISCO JOSÉ TABERNER SANCHIS; GREGORIO FERNANDEZ BALLESTER; ANTONIO FERRER MONTIEL; ENDRE BALAZS; ANA GOMIS; CARLOS BELMONTE; ELVIRA DE LA PEÑA. HYALURONAN MODULATES TRPV1 CHANNEL OPENING, REDUCING PERIPHERAL NOCICEPTOR ACTIVITY AND PAIN. NATURE COMMUNICATIONS. 6, MACMILLAN PUBLISHERS LIMITED, 27/08/2015. Available on-line at: <<https://www.nature.com/articles/ncomms9095>>.

**DOI:** 10.1038/ncomms9095

**Type of production:** Scientific paper  
**Position of signature:** 3

**Total no. authors:** 9

**Impact source:** ISI

**Impact index in year of publication:** 11.47

**Position of publication:** 2

**Source of citations:** WOS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 53

**Citations:** 44

- 7 FRANCISCO JOSÉ TABERNER SANCHIS; AINARA LOPEZ CORDOBA; GREGORIO FERNANDEZ BALLESTER; YURI KORCHEV; ANTONIO FERRER MONTIEL. The region adjacent to the C-end of the inner gate in transient receptor potential melastatin 8 (TRPM8) channels plays a central role in allosteric channel activation. JOURNAL OF BIOLOGICAL CHEMISTRY. 289 - 41, pp. 28579 - 28594. ROCKVILLE PIKE (United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 10/10/2014. Available on-line at: <<http://www.jbc.org/>>. ISSN 0021-9258

**DOI:** 10.1074/jbc.M114.577478

**Type of production:** Scientific paper  
**Position of signature:** 1

**Impact source:** ISI

**Impact index in year of publication:** 4.863

**Position of publication:** 65

**Source of citations:** WOS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** BIOCHEMISTRY & MOLECULAR BIOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 291

**Citations:** 20

- 8 Jose Taberner, Francisco; Quilis, Inma; Sendra, Josep; Carmen Bano, Maria; Carlos Igual, Juan. Regulation of cell cycle transcription factor Swi5 by karyopherin Msn5. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1823 - 4, pp. 959 - 970. Elsevier, 30/04/2012. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0167488912000493?via%3Dihub>>. ISSN 0167-4889

**Type of production:** Scientific paper  
**Position of signature:** 1

**Total no. authors:** 5

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Impact source:** ISI

**Impact index in year of publication:** 5,538

**Position of publication:** 45

**Source of citations:** WOS

**Relevant publication:** Yes

**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 290

**Citations:** 4

- 9** Vijayan Gangadharan; Hongwei Zheng; Francisco J.) Taberner; Jonathan Landry; Timo A. Nees; Jelena Pistolic; Nitin Agarwal; Deepitha Maennich; Vladimir Benes; Moritz Helmstaedter; Bjoern Ommer; Stefan G. Lechner; Thomas Kuner; Rohini Kuner. Neuropathic pain caused by miswiring and abnormal end organ targeting. *Nature*. 606 - 7912, pp. 137. 06/06/2022. Available on-line at: <<https://www.nature.com/articles/s41586-022-04777-z>>.

**DOI:** 10.1038/s41586-022-04777-z

**Type of production:** Scientific paper

**Corresponding author:** No

**Impact source:** ISI

**Impact index in year of publication:** 69.504

**Position of publication:** 1

**Source of citations:** WOS

**Format:** Journal

**Category:** Multidisciplinary Science

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 73

**Citations:** 1

- 10** Clement Verkest; Irina Schaefer; Timo A. Nees; Juri M. Jegelka; Francisco J. Taberner; Stefan G. Lechner. Intrinsically disordered intracellular domains control key features of the mechanically-gated ion channel PIEZO2. *Nature Communications*. 13 - 1, pp. 1365. 15/03/2022. Available on-line at: <<https://www.nature.com/articles/s41467-022-28974-6>>.

**DOI:** 10.1038/s41467-022-28974-6

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 6

**Impact source:** ISI

**Impact index in year of publication:** 17.694

**Position of publication:** 6

**Source of citations:** WOS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Multidisciplinary Science

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 73

**Citations:** 1

- 11** Timo A. Nees; Na Wang; Pavel Adamek; Clement Verkest; Irina Schaefer; Julie Virnich; Selin Balkaya; Vincenzo Prato; Chiara Morelli; Nadja Zeitzschel; Valerie Begay; Young Jae Lee; Gary R. Lewin; Paul A. Heppenstall; Francisco J. Taberner; Stefan G. Lechner. The molecular mechanism and physiological role of silent nociceptor activation. *bioRxiv*. Cold Spring Harbor Laboratory, 2022. Available on-line at: <<https://www.biorxiv.org/content/early/2022/04/10/2022.04.07.486730>>.

**Type of production:** Scientific paper

**Format:** Journal

- 12** Chiara Morelli; Laura Castaldi; Sam J. Brown; Lina L. Streich; Alexander Websdale; Francisco J Taberner Sanchis; Blanka Cerreti; Alessandro Barenghi; Kevin M. Blum; Julie Sawitzke; Tessa Frank; Laura Steffens; Balint Doleschall; Joana Serrao; Denise Ferrarini; Stefan Lechner; Robert Prevedel; Paul Heppenstall. Identification of a novel population of peripheral sensory neuron that regulates blood pressure. *Cell Reports*. 35 - 9, 06/2021. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S2211124721005374>>.

**DOI:** 10.1016/j.celrep.2021.109191

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 18

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Impact source:** ISI**Impact index in year of publication:** 9.995**Position of publication:** 33**Source of citations:** WOS**Category:** Cell Biology**Journal in the top 25%:** Yes**No. of journals in the cat.:** 194**Citations:** 3

- 13** Fred Schwaller; Valerie Bégay; Gema Garcia Garcia; Francisco J. Taberner; Rabih Moshourab; Brennan McDonald; Trevor Docter; Johannes Kühnemund; Julia Ojeda Alonso; Ricardo Paricios Montesinos; Stefan G. Lechner; James F.A. Poulet; Jose M. Millan; Gary R Lewin. USH2A is a Meissner corpuscle protein necessary for normal vibration sensing in mice and humans. *Nature Neuroscience*. Nature, 01/2021. Available on-line at: <<https://www.nature.com/articles/s41593-020-00751-y>>.

**DOI:** 10.1038/s41593-020-00751-y**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 14**Impact source:** ISI**Impact index in year of publication:** 28.771**Position of publication:** 2**Source of citations:** WOS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** NEUROSCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 274**Citations:** 11

- 14** Nitin Agarwal; Francisco J Taberner; Daniel Rangel-Rojas; Mirko Moroni; Damir Omberbasic; Christian Njoo; Alexandra Andrieux; Pooja Gupta; Kiran K Bali; Esther Herpel; Faramarz Faghihi; Thomas Fleming 5; Anne Dejean; Stefan G. Lechner; Peter P. Nawroth; Gary Lewin; R Kuner. SUMOylation of Enzymes and Ion Channels in Sensory Neurons Protects against Metabolic Dysfunction, Neuropathy, and Sensory Loss in Diabetes. *Neuron*. 107 - 6, pp. 1141 - 1159. *Cell Press*, 23/09/2020. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0896627320304918>>.

**DOI:** 10.1016/j.neuron.2020.06.037**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 17**Impact source:** ISI**Impact index in year of publication:** 18.688**Position of publication:** 8**Source of citations:** WOS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - NEUROSCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 274**Citations:** 13

- 15** Inma Quilis; Francisco J Taberner Sanchis; Carlos A Martínez Garay; Paula Alepuz; Juan Carlos Igual García. Karyopherin Msn5 is involved in a novel mechanism controlling the cellular level of cell cycle regulators Cln2 and Swi5. *Cell Cycle*. Tylor&Francis Online, 26/03/2019. Available on-line at: <<https://www.tandfonline.com/doi/full/10.1080/15384101.2019.1578148>>.

**DOI:** 10.1080/15384101.2019.1578148**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 3.699**Source of citations:** WOS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Medicine (miscellaneous)**Journal in the top 25%:** Yes**Citations:** 1

- 16** Irina Schaefer; Vincenzo Prato; Alice Arcourt; Francisco J Taberner Sanchis; Stefan Lechner. Differential modulation of voltage-gated sodium channels by nerve growth factor in three major subsets of TrkA-expressing nociceptors. *Molecular Pain*. 14, pp. 1 - 15. SAGE Publishing, 27/11/2018. Available on-line at: <<https://journals.sagepub.com/doi/10.1177/1744806918814640>>.  
**DOI:** 10.1177/1744806918814640  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 5  
**Impact source:** ISI  
**Impact index in year of publication:** 2.746  
**Source of citations:** WOS  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Anaesthesiology and Pain Medicine  
**Journal in the top 25%:** Yes  
**Citations:** 5
- 17** P Narayanan; M Hütte; G Kudryasheva; Francisco J Taberner Sabchis; Stefan G Lechner; F Rehfeldt; David Gomez Valera; Manuela Schmidt. Myotubularin related protein-2 and its phospholipid substrate PIP2 control Piezo2-mediated mechanotransduction in peripheral sensory neurons. *Elife*. 7 - e32346, 14/03/2018. Available on-line at: <<https://doi.org/10.7554/eLife.32346>>.  
**DOI:** 10.7554/elife.32346  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 8  
**Impact source:** ISI  
**Impact index in year of publication:** 7.616  
**Position of publication:** 4  
**Source of citations:** WOS  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** BIOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 85  
**Citations:** 17
- 18** Aguado-Llera, David; Bacarizo, Julio; Gregorio-Teruel, Lucia; Taberner, Francisco J.; Camara-Artigas, Ana; Neira, Jose L.. Biophysical characterization of the isolated C-terminal region of the transient receptor potential vanilloid 1. *FEBS LETTERS*. 586 - 8, pp. 1154 - 1159. Elsevier, 24/04/2012. Available on-line at: <<https://febs.onlinelibrary.wiley.com/doi/full/10.1016/j.febslet.2012.03.030>>. ISSN 0014-5793  
**DOI:** 10.1016/j.febslet.2012.03.030  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 6  
**Impact source:** ISI  
**Impact index in year of publication:** 3,538  
**Position of publication:** 102  
**Source of citations:** WOS  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 290  
**Citations:** 4
- 19** Jose Taberner, Francisco; Carlos Igual, Juan. Yeast karyopherin Kap95 is required for cell cycle progression at Start. *BMC CELL BIOLOGY*. 11, BIOMED CENTRAL LTD, 29/06/2010. Available on-line at: <<https://bmcmolcellbiol.biomedcentral.com/articles/10.1186/1471-2121-11-47>>. ISSN 1471-2121  
**DOI:** 10.1186/1471-2121-11-47  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Format:** Journal





**Total no. authors:** 2

**Impact source:** ISI

**Impact index in year of publication:** 2,654

**Position of publication:** 114

**Source of citations:** WOS

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - CELL BIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 181

**Citations:** 7

- 20** Taberner, Francisco J.; Quilis, Inmaculada; Igual, J. Carlos. Spatial regulation of the start repressor Whi5. CELL CYCLE. 8 - 18, pp. 3010 - 3018. LANDES BIOSCIENCE, 15/09/2009. Available on-line at: <<https://www.tandfonline.com/doi/abs/10.4161/cc.8.18.9621>>. ISSN 1538-4101

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 3

**Impact source:** ISI

**Impact index in year of publication:** 4,087

**Position of publication:** 44

**Source of citations:** SCOPUS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - CELL BIOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 181

**Citations:** 34

- 21** Lukovic, D; Plasencia, I; Taberner, FJ; Salgado, J; Calvete, JJ; Perez-Gil, J; Mingarro, I. Production and characterisation of recombinant forms of human pulmonary surfactant protein C (SP-C): Structure and surface activity. BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. 1758 - 4, pp. 509 - 518. Elsevier, 30/04/2006. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0005273606000927?via%3Dihub>>. ISSN 0005-2736

**DOI:** 10.1016/j.bbamem.2006.03.005

**Type of production:** Scientific paper

**Position of signature:** 3

**Impact source:** ISI

**Impact index in year of publication:** 3,587

**Position of publication:** 16

**Source of citations:** WOS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - BIOPHYSICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 74

**Citations:** 18

- 22** FRANCISCO JOSÉ TABERNER SANCHIS; ISABEL DEVESA GINER; Antonio Ferrer Montiel. Calcium entry through thermosensory channels. Calcium entry pathways in non- excitable cells. SPRINGER, 02/05/2016.

**DOI:** 10.1007/978-3-319-26974-0\_12

**Type of production:** Book chapter

**Position of signature:** 1

**Total no. authors:** 3

**Format:** Book

**Corresponding author:** Yes

- 23** Oraez, M; Taberner, FJ; Perez-Paya, E; Mingarro, I. Helix-Helix packing between transmembrane fragments. METHODS IN PROTEOME AND PROTEIN ANALYSIS. pp. 1 - 14. SPRINGER-VERLAG BERLIN, 01/01/2004. Available on-line at: <[http://www.newbooks-services.de/MediaFiles/Texts/6/9783540202226\\_Excerpt\\_001.pdf](http://www.newbooks-services.de/MediaFiles/Texts/6/9783540202226_Excerpt_001.pdf)>.

**Type of production:** Book chapter

**Source of citations:** WOS

**Format:** Book

**Citations:** 0



## Works submitted to national or international conferences

- 1** **Title of the work:** Characterization of spinal cord circuits involved in cold/burning-pain sensory crosstalk.  
**Name of the conference:** VIII Congreso Red Española de Canales Iónicos  
**Corresponding author:** Yes  
**City of event:** San Juan de Alicante, Spain  
**Date of event:** 24/05/2022  
**End date:** 27/05/2022  
**Organising entity:** Red Española de Canales Iónicos (RECI)  
Francisco J Taberner; Espe Selva; Chiara Nappi. "POSTER PRESENTATION".
- 2** **Title of the work:** Piezo2 Channels: from structure to nociception.  
**Name of the conference:** VIII Congreso Red Española de Canales Iónicos  
**Corresponding author:** Yes  
**City of event:** San Juan de Alicante, Spain  
**Date of event:** 24/05/2022  
**End date:** 27/05/2022  
**Organising entity:** Red Española de Canales Iónicos (RECI)  
Francisco J Taberner. "INVITED TALK".
- 3** **Title of the work:** Ab-fiber LTMRs initiate spinal cord injury-induced neuropathic pain along with Ad and C-fiber nociceptor hypersensitivity and plasticity.  
**Name of the conference:** International Satellite EFIC Symposium: Neural Ciurcuits of Pain -IV  
**Corresponding author:** No  
**City of event:** Heidelberg, Germany  
**Date of event:** 24/04/2022  
**End date:** 27/04/2022  
**Organising entity:** European Pain Federeation  
Christopher Sliwinski; Laura Heurtehaus; Francisco J Taberner; Xing Cheng; Bahardokht Tolou-Dabbaghian; Vasileos Kampanis; Lisa Weiss; Melanie Motsch; Paul Heppenstall; Rohini Kuner; Steffen Franz; Stefan G Lechner; Norbert Weidner; Radhika Puttagunta. "POSTER PRESENTATION".
- 4** **Title of the work:** Intrinsically disordered intracellular domains control key features of the mechanically-gated ion channel PIEZO2.  
**Name of the conference:** International Satellite EFIC Symposium: Neural Ciurcuits of Pain -IV  
**Corresponding author:** No  
**City of event:** Heidelberg, Germany  
**Date of event:** 24/04/2022  
**End date:** 26/04/2022  
**Organising entity:** European Pain Federeation  
Clement Verkest; Irina Schaefer; Timo A. Nees; Na Wang; Juri M Jegelka; Francisco J Taberner; Stefan G Lechner. "POSTER PRESENTATION".
- 5** **Title of the work:** Structure-guided examination of the mechanogating mechanism of PIEZO2  
**Name of the conference:** MOLECULAR BIOLOGY AND BIOPHYSICS OF ION CHANNELS AND TRANSPORTERS  
**Corresponding author:** Yes  
**City of event:** Sestri Levante, Liguria, Italy  
**Date of event:** 01/10/2019



**End date:** 03/10/2019

**Organising entity:** Societa Italiana de Biofisica      **Type of entity:** Associations and Groups  
FRANCISCO J TABERNER; VINCENZO PRATO; IRINA SCHAEFER; KATRIN SCHRENK-SIEMENS;  
PAUL HEPENSTALL; STEFAN LECHNER.

**6 Title of the work:** Understanding the activation and regulation of Piezo2

**Name of the conference:** Young Scientist Retreat

**Type of event:** Workshop

**Geographical area:** National

**Type of participation:** Participatory - oral communication

**City of event:** Grassellenbach, Germany

**Date of event:** 01/10/2018

**End date:** 02/10/2018

**Organising entity:** SFB1158

Francisco J Taberner Sanchis; Vincenzo Prato; Stefan Lechner.

**7 Title of the work:** Identification of sensory neurons that mediate mechanical allodynia

**Name of the conference:** 11th FENS Forum of Neuroscience

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** 'Participatory - poster

**City of event:** Berlin, Germany

**Date of event:** 07/07/2018

**End date:** 11/07/2018

**Organising entity:** Federation of European Neuroscience Societies

Paola Pacifico; Rahul Dhandapani; Cynthia Arokiaraj; Francisco J Taberner Sanchis; Sruthi Raja; Carla Portulano; Federica Franciosa; Mariano Maffei; de Castro Reis Fernanda; Luc Reymond; Emerald Perlas; Simone Garcovich; Stefan Barth; Kai Johnsson; Stefan Lechner; Paul Heppenstall.

**8 Title of the work:** Genetic identification of mechanoinensitive 'silent' nociceptors

**Name of the conference:** SFB1158 Annual Symposium

**Type of event:** Workshop

**Geographical area:** National

**Type of participation:** Participatory - oral communication

**City of event:** Heidelberg, Germany

**Date of event:** 01/12/2017

**End date:** 01/12/2017

**Organising entity:** SFB1158

Francisco J Taberner Sanchis; Vincenzo Prato; Stefan Lechner.

**9 Title of the work:** THE CELLULAR IDENTITY OF "SILENT" NOCICEPTORS

**Name of the conference:** 10th Congress of the European Pain Federation EFIC

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** 'Participatory - poster

**City of event:** Copenhagen, Denmark

**Date of event:** 06/09/2017

**End date:** 09/09/2017

**Organising entity:** EUROPEAN PAIN FEDERATION

Francisco J Taberner Sanchis; Vincezo Prato; Stefan G Lechner.

**10 Title of the work:** THE MOLECULAR MECHANISM OF NGF-INDUCED MECHANICAL HYPERALGESIA

**Name of the conference:** 10th Congress of the European Pain Federation EFIC

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** 'Participatory - poster



**City of event:** Copenhagen, Denmark  
**Date of event:** 06/09/2017  
**End date:** 09/09/2017  
**Organising entity:** EUROPEAN PAIN FEDERATION  
Vincezo Prato; Francisco J Taberner Sanchis; Stefan G Lechner.

- 11** **Title of the work:** THE CELLULAR IDENTITY OF "SILENT" NOCICEPTORS  
**Name of the conference:** Neural Circuits of Pain - EFIC satellite symposium  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Schwetzingen, Germany  
**Date of event:** 03/09/2017  
**End date:** 05/09/2017  
**Organising entity:** Heidelberg Pain Consortium  
Francisco J Taberner Sanchis; Vincezo Prato; Stefan G Lechner.
- 12** **Title of the work:** THE MOLECULAR MECHANISM OF NGF-INDUCED MECHANICAL HYPERALGESIA  
**Name of the conference:** Neural Circuits of Pain - EFIC satellite symposium  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Schwetzingen, Germany  
**Date of event:** 03/09/2017  
**End date:** 05/09/2017  
**Organising entity:** Heidelberg Pain Consortium  
Vincezo Prato; Francisco J Taberner Sanchis; Stefan G Lechner.
- 13** **Title of the work:** Bringing Light to the Spinal Cord Circuitry  
**Name of the conference:** IASAT2017  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - invited/keynote talk  
**Corresponding author:** Yes  
**City of event:** Liverpool, United Kingdom  
**Date of event:** 01/09/2017  
**End date:** 03/09/2017  
**Organising entity:** International Association for the Study of Affective Touch
- 14** **Title of the work:** Measuring peripheral nerve activity in rodents  
**Name of the conference:** SFB1158 Annual Symposium  
**Type of event:** Workshop **Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**City of event:** Heidelberg, Germany  
**Date of event:** 16/06/2016  
**End date:** 16/06/2016  
**Organising entity:** SFB1158  
Francisco J Taberner Sanchis; Stefan Lechner.
- 15** **Title of the work:** MODULATION OF TRPV1 CHANNELS BY SODIUM HYALURONATE  
**Name of the conference:** NEUROSCIENCE 2015  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** No



**City of event:** CHICAGO, United States of America

**Date of event:** 17/10/2015

**Organising entity:** SOCIETY FOR NEUROSCIENCES

ELVIRA DE LA PEÑA; REBECA CAIRES; ENOCH LUIS; FRANCISCO J TABERNER; GREGORIO FERNANDEZ BALLESTER; ANTONIO FERRER MONTIEL; ENDRE BALAZS; ANA GOMIS; CARLOS BELMONTE.

- 16 Title of the work:** SODIUM HYALURONATE MODULATES TRPV1 CHANNEL OPENING, REDUCING PERIPHERAL NOCICEPTOR ACTIVITY AND PAIN

**Name of the conference:** RECI 2015

**Type of event:** Conference

**Geographical area:** National

**Type of participation:** 'Participatory - poster

**Corresponding author:** No

**City of event:** BARCELONIA, Catalonia, Spain

**Date of event:** 04/10/2015

**Organising entity:** RED ESPAÑOLA DE CANALES IONICOS

ELVIRA DE LA PEÑA; REBECA CAIRES; ENOCH LUIS; FRANCISCO J TABERNER; GREGORIO FERNANDEZ BALLESTER; ANTONIO FERRER MONTIEL; ENDRE BALAZS; ANA GOMIS; CARLOS BELMONTE.

- 17 Title of the work:** PURIFICATION AND CHARACTERISATION OF THE TRPV1 C-TERMINUS

**Name of the conference:** SBE2014

**Type of event:** Conference

**Geographical area:** National

**Type of participation:** 'Participatory - poster

**Corresponding author:** Yes

**City of event:** ALCALÁ DE HENARES, Community of Madrid, Spain

**Date of event:** 13/07/2014

**Organising entity:** SOCIEDAD DE BIOFISICA DE ESPAÑA

MAITE ARTERO; FRANCISCO J TABERNER SANCHIS; GREGORIO FERNANDEZ BALLESTER; ANTONIO FERRER MONTIEL.

- 18 Title of the work:** THE S6-TRPBOX LINKER DOMAIN IN TRPM8 PLAYS A CENTRAL ROLE IN ALLOSTERIC CHANNEL ACTIVATION

**Name of the conference:** SBE2014

**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**Corresponding author:** Yes

**City of event:** ALCALA DE HENARES, Community of Madrid, Spain

**Date of event:** 13/07/2014

**Organising entity:** SOCIEDAD DE BIOFISICA DE ESPAÑA

**With external admission assessment committee:** Yes

FRANCISCO J TABERNER SANCHIS; AINARA LOPEZ CORDOBA; GREGORIO FERNANDEZ BALLESTER; YURI KORCHEV; ANTONIO FERRER MONTIEL.

- 19 Title of the work:** THE S6-TRPBOX REGION PLAYS AN IMPORTANT ROLE IN TRPM8 GATING

**Name of the conference:** MOLECULAR BIOLOGY AND BIOPHYSICS OF ION CHANNELS AND TRANSPORTERS

**Corresponding author:** Yes

**City of event:** MALLORCA, Balearic Islands, Spain

**Date of event:** 17/09/2013

**Organising entity:** THE SPANISH ION CHANNEL INITIATIVE



FRANCISCO J TABERNER SANCHIS; AINARA LOPEZ CORDOBA; GREGORIO FERNANDEZ BALLESTER; YURI KORCHEV; ANTONIO FERRER MONTIEL.

- 20** **Title of the work:** MUTATIONS IN THE TRP DOMAIN DIFFERENTIALLY AFFECTS THE FUNCTION OF TRPM8  
**Name of the conference:** BIOPHYSICAL SOCIETY 57TH MEETING  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** PHILADELPHIA, United States of America  
**Date of event:** 02/02/2013  
**Organising entity:** BIOPHYSICAL SOCIETY  
FRANCISCO J TABERNER SANCHIS; AINARA LOPEZ CORDOBA; GREGORIO FERNANDEZ BALLESTER; YURI KORCHEV; ANTONIO FERRER MONTIEL.
- 21** **Title of the work:** Mutations within the first aminoacids of the TRP domain differentially affect the function of TRPM8 channel  
**Name of the conference:** International Workshop on Transient Receptor Potential (TRP) Channels  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 12/09/2012  
**End date:** 14/09/2012  
**Organising entity:** Cátedra Santiago Grisolí **Type of entity:** Foundation  
Francisco J Taberner Sanchis; Ainara Lopez Cordoba; Gregorio Fernandez; Antonio V Ferrer Montiel.
- 22** **Title of the work:** Mecanismos de especialización funcional de complejos CDK-ciclinas CLN  
**Name of the conference:** XXX Biochemistry and Molecular Biology Spanish Society  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Elche, Valencian Community, Spain  
**Date of event:** 10/09/2007  
**Organising entity:** Sociedad Española de Bioquímica y Biología Molecular  
Inmaculada Quilis; Francisco José Taberner Sanchis; Elena Zalve; Juan Carlos Igual García.
- 23** **Title of the work:** Regulación de Cln2 por la carioferina Msn5  
**Name of the conference:** XXIX Biochemistry and Molecular Biology Spanish Society  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Elche, Valencian Community, Spain  
**Date of event:** 10/09/2006  
**Organising entity:** Sociedad Española de Bioquímica y Biología Molecular  
Francisco José Taberner Sanchis; Josep Sendra; Inmaculada Quilis; Juan Carlos Igual García.
- 24** **Title of the work:** Mecanismos de regulación espacial en el control del ciclo celular: nuevas funciones de la carioferina Msn5  
**Name of the conference:** Workshop: Cell cycle: genomic and proteomic approach in yeast models  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Lleida, Catalonia, Spain  
**Date of event:** 12/06/2006



**Organising entity:** Universitat de Lleida  
Francisco José Taberner Sanchis; Josep Sendra; Inmaculada Quilis; Juan Carlos Igual García.

**Type of entity:** University

- 25** **Title of the work:** Influence of proline residues in transmembrane helix packing  
**Name of the conference:** 14th Methods of Protein Structure Analysis Conference  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 08/09/2002  
**Organising entity:** MPSA  
Mar Orzáez; Jesus Salgado; Francisco Taberner Sanchis; Ana Giménez; Ismael Mingarro Muñoz.

- 26** **Title of the work:** Proline induced disruptions of transmembrane interactions.  
**Name of the conference:** The 16th Annual Symposium of The Protein Society  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** San Diego, United States of America  
**Date of event:** 01/08/2002  
**Organising entity:** The Protein Society  
Mar Orzáez; Jesus Salgado; Francisco Taberner Sanchis; Ana Giménez; Ismael Mingarro Muñoz.

- 27** **Title of the work:** Interacciones entre hélices transmembrana: minimización de un motivo de dimerización.  
**Name of the conference:** XXIV Biochemistry and Molecular Biology Spanish Society  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 18/09/2001  
**Organising entity:** Sociedad Española de Bioquímica y Biología Molecular  
Mar Orzáez; Francisco José Taberner Sanchis; Ismael Mingarro Muñoz.

- 28** **Title of the work:** Pro-scanning in transmembrane helices.  
**Name of the conference:** Molecular dynamics of membrane Biogenesis  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Corse, France  
**Date of event:** 01/06/2001  
**Organising entity:** FEBS **Type of entity:** Associations and Groups  
Mar Orzaez; Francisco J. Taberner; Ismael Mingarro.

### Other dissemination activities

- 1** **Title of the work:** Demostración y explicación de experimentos de electrofisiología al público de la Semana del Cerebro  
**Name of the event:** Semana del Cerebro  
**Type of event:** Fairs and exhibitions  
**City of event:** San Juan de Alicante, Valencian Community, Spain  
**Date of event:** 14/03/2022  
**Organising entity:** Instituto de Neurociencias de Alicante **Type of entity:** University Research Institute  
**City organizing entity:** San Juan de Alicante, Valencian Community, Spain



- 2** **Title of the work:** Organizador del stand de electrofisiología de la Semana del cerebro del Inst. Neurociencias de Alicante  
**Name of the event:** Semana del Cerebro  
**Type of event:** Fairs and exhibitions  
**City of event:** San Juan de Alicante, Valencian Community, Spain  
**Date of event:** 14/03/2022  
**Organising entity:** Instituto de Neurociencias de Alicante      **Type of entity:** University Research Institute  
**City organizing entity:** San Juan de Alicante, Valencian Community, Spain
- 3** **Title of the work:** Piezo Channels  
**Name of the event:** 20th Public MPMU Research Day  
**Type of event:** Open Day talks  
**Reasons for participation:** Representing  
**City of event:** Heidelberg, Germany  
**Date of event:** 01/10/2018  
**Organising entity:** European Molecular Biology Laboratory      **Type of entity:** Public Research Body  
**City organizing entity:** Heidelberg, Germany  
**With external admission assessment committee:** Yes  
Francisco J Taberner Sanchis.
- 4** **Title of the work:** Research in Academia  
**Name of the event:** I Jornadas de empleo en Biotecnología  
**Type of event:** Conferences given  
**City of event:** Elche, Valencian Community, Spain  
**Date of event:** 02/12/2012  
**Organising entity:** Universidad Miguel Hernández de Elche      **Type of entity:** University  
**City organizing entity:** Elcher, Valencian Community, Spain  
Francisco J Taberner Sanchis.

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** TRIBUNAL DE DOCTORADO DE DOÑA MAITE ARTERO MORALES  
**Affiliation entity:** Universidad Miguel Hernández de Elche      **Type of entity:** University  
**City affiliation entity:** ELCHE, Valencian Community, Spain  
**Start-End date:** 23/11/2018 - 23/11/2018
- 2** **Committee title:** TRIBUNAL DE DOCTORADO DE DOÑA ESTEFANIA MONTOYA  
**Affiliation entity:** Universidad Miguel Hernández de Elche      **Type of entity:** University  
**City affiliation entity:** ELCHE, Valencian Community, Spain  
**Start-End date:** 29/07/2016 - 29/07/2016





- 3** **Committee title:** TRIBUNAL DE DOCTORADO DE DOÑA LUCIA GREGORIO TERUEL  
**Affiliation entity:** Universidad Miguel Hernández de Elche **Type of entity:** University  
**City affiliation entity:** ELCHE, Valencian Community, Spain  
**Start-End date:** 17/12/2013 - 17/12/2013
- 4** **Committee title:** TRIBUNAL DE DOCTORADO DE DON AARON GARCÍA NAVARRO  
**Affiliation entity:** Universidad Miguel Hernández de Elche **Type of entity:** University  
**City affiliation entity:** ELCHE, Valencian Community, Spain  
**Start-End date:** 16/09/2011 - 16/09/2011

### Organization of R&D activities

**Title of the activity:** INTERNATIONAL WORKSHOP ON CHRONIC PAIN AND ITCH: MECHANISMS AND CIRCUITS  
**Type of activity:** Research congress  
**Convening entity:** Universidad Miguel Hernández de Elche **Type of entity:** University  
**City convening entity:** Elche, Spain  
**Start-End date:** 20/10/2021 - 22/10/2021

### Other achievements

#### Stays in public or private R&D centres

- |          |   |  |
|----------|---|--|
| <b>1</b> | <b>Entity:</b> European Molecular Biology Laboratory<br><b>City of entity:</b> Heidelberg, Germany<br><b>Start-End date:</b> 01/07/2016 - 30/06/2019<br><b>Goals of the stay:</b> Post-doctoral   | <b>Type of entity:</b> Public Research Body<br><br><b>Duration:</b> 3 years          |
| <b>2</b> | <b>Entity:</b> Heidelberg University<br><b>Faculty, institute or centre:</b> Pharmacology Insittute<br><b>City of entity:</b> Heidelberg, Germany<br><b>Start-End date:</b> 04/05/2015 - 30/06/2016<br><b>Goals of the stay:</b> Post-doctoral  | <b>Type of entity:</b> University<br><br><b>Duration:</b> 1 year - 1 month - 26 days |
| <b>3</b> | <b>Entity:</b> Universidad Miguel Hernández de Elche<br><b>Faculty, institute or centre:</b> Instituto Universitario de Biología Molecular y Celular<br><b>City of entity:</b> Elche, Valencian Community, Spain<br><b>Start-End date:</b> 01/04/2010 - 01/05/2015<br><b>Goals of the stay:</b> Post-doctoral | <b>Type of entity:</b> University<br><br><b>Duration:</b> 5 years - 1 month          |
| <b>4</b> | <b>Entity:</b> UNIKLINIK KÖLN<br><b>Faculty, institute or centre:</b> DEP. OF ANESTHESIOLOGY AND PAIN RESEARCH<br><b>City of entity:</b> COLONIA, Köln, Germany<br><b>Start-End date:</b> 01/09/2014 - 31/10/2014<br><b>Goals of the stay:</b> Invited Researcher   | <b>Type of entity:</b> University<br><br><b>Duration:</b> 2 months                   |

**Provable tasks:** APRENDIZAJE DE TÉCNICAS DE HIGH CONTENT MICROSCOPY

- 5** **Entity:** University Heidelberg **Type of entity:** University Department  
**Faculty, institute or centre:** Pharmacology Institute  
**City of entity:** Heidelberg, Germany  
**Start date:** 01/07/2019  
**Goals of the stay:** Post-doctoral

**Obtained grants and scholarships**

- 1** **Name of the grant:** Becario de Colaboración "Mecanismos de Regualación espacial en el ciclo celular"  
**Aims:** Research Assistant  
**Awarding entity:** Universitat de València **Type of entity:** University  
**Conferral date:** 16/09/2007  
**End date:** 31/12/2007  
**Entity where activity was carried out:** Universitat de València  
**Faculty, institute or centre:** Departament de Bioquímica i Biologia Molecular
- 2** **Name of the grant:** Beca de Colaboración "Mecanismos de regulación espacial en el control del ciclo celular"  
**Aims:** Research Assistant  
**Awarding entity:** Universitat de Valencia **Type of entity:** University  
**Conferral date:** 16/07/2006  
**End date:** 31/12/2006  
**Entity where activity was carried out:** Universitat de València  
**Faculty, institute or centre:** Departament de Bioquímica i Biologia Molecular
- 3** **Name of the grant:** Beca Formación Personal Investigador  
**Aims:** Pre-doctoral  
**Awarding entity:** Ministerio de Educación y Ciencia **Type of entity:** State agency  
**Conferral date:** 01/07/2002  
**End date:** 30/06/2006  
**Entity where activity was carried out:** Universitat de València  
**Faculty, institute or centre:** Dep. Bioquímica i Biologia Molecular
- 4** **Name of the grant:** Beca de Colaboración para inicio a la Investigación  
**Aims:** Research Initiation Grant  
**Awarding entity:** Ministerio de Educación Cultura y Deporte **Type of entity:** State agency  
**Conferral date:** 29/11/2000 **Duration:** 1 year  
**Entity where activity was carried out:** Universitat de València  
**Faculty, institute or centre:** Departament de Bioquímica i Biologia Molecular



## Scientific societies and professional associations

- 1 Name of the society:** International Association for the Study of Pain (IASP)  
**City:** Washington, United States of America  
**N° of members:** 7.500  
**Start-End date:** 01/05/2018 - 01/05/2019
- 2 Name of the society:** Sociedad de Biofísica de España  
**City affiliation entity:** Spain  
**Start date:** 01/01/2013
- 3 Name of the society:** Sociedad Española de Bioquímica y Biología Molecular  
**City affiliation entity:** Madrid, Community of Madrid, Spain  
**Start date:** 17/07/2002

## Co-operation networks

- 1 Name of the network:** Heidelberg Pain Consortium  
**Identification of the network:** Pain Research  
**Participating entity/entities:** Medical Faculty Heidelberg, Heidelberg University; Faculty of Biosciences, Heidelberg University; Saarland University; University Hospital Würzburg; Central Institute of Mental Health Mannheim; German Cancer Research Center (DKFZ), Heidelberg; German Center for Neurodegenerative Diseases  
**Start date:** 2015  
**Type of entity:** University; University; University; University; R&D Centre; R&D Centre; R&D Centre
- 2 Name of the network:** The Spanish Ion Channel Initiative (SICI) / RECI  
**Identification of the network:** Ion Channel Research  
**Participating entity/entities:** Universidad Complutense de Madrid; Universidad Miguel Hernández de Elche; Universidad de Alicante; Universidad de Castilla la Mancha; Universidad de La Laguna; Universidad de Oviedo; Universidade de Vigo; Universitat de Barcelona; Centro de Investigación Príncipe Felipe; Instituto de Química Médica; Hospital Universitario Ramón y Cajal; CIC bioGUNE, Centro de Investigación Cooperativa en Biociencias  
**Start date:** 2008  
**Type of entity:** University; University; University; University; University; University; University; University; Foundation; State agency; Healthcare Institutions; Innovation and Technology Centres



## Summary of other achievements

- 1** **Description of the achievement:** Generación de Software libre para análisis de resultados de Patch Clamp  
**Accrediting entity:** **Type of entity:** Business  
<https://github.com/FTS-LAB/Mechano-Gated-Channels>  
**Conferral date:** 27/07/2022
- 2** **Description of the achievement:** Asistencia a "EPI XIII. Iberian Peptide Meeting"  
**Accrediting entity:** Instituto de Bioquímica y Biología Molecular (UMH) **Type of entity:** University Research Institute  
**City accrediting entity:** Alicante, Valencian Community, Spain  
**Conferral date:** 01/02/2012
- 3** **Description of the achievement:** Colaborador en el XXIV Congreso de la Sociedad española de Bioquímica  
**Accrediting entity:** Sociedad Española de Bioquímica y Biología Molecular **Type of entity:** Sociedad Científica  
**City accrediting entity:** Madrid, Community of Madrid, Spain  
**Conferral date:** 21/09/2001
- 4** **Description of the achievement:** Reviewer for different journals