



José María Ferrero De Loma-Osorio

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**José María Ferrero De Loma-Osorio**

Surname(s): **Ferrero De Loma-Osorio**
Name: **José María**
DNI: **29166617H**
Date of birth: **28/08/1966**
Gender: **Male**
Land line phone: **(034) 963877000**
Email: **cferrero@eln.upv.es**

Current professional situation

Employing entity: UNIVERSITAT POLITÈCNICA DE VALÈNCIA
Type of entity: University
Department: D. Ingeniería Electrónica, E.T.S.I. Industrial
Professional category: Catedrático/a de Universidad
Educational Management (Yes/No): Yes
Email: cferrero@eln.upv.es
Start date: 22/05/2003
Type of contract: Civil servant
Dedication regime: Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Politècnica de València	Catedrático/a de Universidad	14/05/2007
2	Universitat Politècnica de València	Catedrático/a de Universidad	22/05/2003
3	Universitat Politècnica de València	Profesor/a Titular de Universidad	19/08/1997
4	Universitat Politècnica de València	Profesor/a Titular Escuela Universitaria	21/01/1993
5	Universitat Politècnica de València	Profesor/a Titular Escuela Univ. -Inter,	16/10/1990

1 **Employing entity:** Universitat Politècnica de València
Professional category: Catedrático/a de Universidad
Start date: 14/05/2007

2 **Employing entity:** Universitat Politècnica de València
Professional category: Catedrático/a de Universidad
Start date: 22/05/2003
Duration: 3 years - 11 months - 22 days

3 **Employing entity:** Universitat Politècnica de València
Professional category: Profesor/a Titular de Universidad
Start date: 19/08/1997
Duration: 5 years - 9 months - 2 days



- 4** **Employing entity:** Universitat Politècnica de València
Professional category: Profesor/a Titular Escuela Universitaria
Start date: 21/01/1993 **Duration:** 4 years - 6 months - 28 days
- 5** **Employing entity:** Universitat Politècnica de València
Professional category: Profesor/a Titular Escuela Univ. -Inter,
Start date: 16/10/1990 **Duration:** 2 years - 3 months - 4 days



Education

University education

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

University degree: INGENIERO INDUSTRIAL

Name of qualification: INGENIERO INDUSTRIAL

City degree awarding entity: Valencia, Spain

Degree awarding entity: UNIVERSIDAD
POLITÉCNICA DE VALENCIA

Type of entity: University

Date of qualification: 08/10/1990

Average mark: Excellent

Doctorates

Doctorate programme: Ingeniería Electrónica

Degree awarding entity: UNIVERSIDAD
POLITÉCNICA DE VALENCIA

Type of entity: University

City degree awarding entity: Valencia, Spain

Date of degree: 27/11/1995

Thesis title: MODELIZACIÓN DEL COMPORTAMIENTO ELÉCTRICO DEL CANAL DE POTASIO
DEPENDIENTE DE ATP EN CÉLULAS DEL MIOCARDIO. APLICACIÓN A SITUACIONES DE HIPOXIA E
ISQU

Obtained qualification: Apto Cum Laude

Language skills

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

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- Project title:** Análisis de un algoritmo de deep learning para detectar picos R en señales ECG.

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , LAFUENTE ALCAZAR, BEATRIZ

Obtained qualification: 10.0

Date of reading: 17/06/2022



- 2** **Project title:** Investigación mecánica y microestructural de plantas tubulares descelularizadas para la producción de modelos de vasos endotelizados naturales
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , LUCAS SALIDO, GEMMA
Obtained qualification: 10.0
Date of reading: 07/06/2022
- 3** **Project title:** Desarrollo, optimización y evaluación de bancos de pruebas para la evaluación de dispositivos médicos
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , BRASSEUR, MANON CLAIRE
Obtained qualification: 9.5
Date of reading: 22/09/2021
- 4** **Project title:** Modelado y simulación de neuronas DRG cultivadas
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , PUCHE GARCIA, VIOLETA
Obtained qualification: 10.0
Date of reading: 22/09/2021
- 5** **Project title:** Modelado matemático y simulación computacional del potencial de acción en neuronas con oscilaciones gamma en entorno Matlab
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , ESCOBAR CARRERA, XIOMARA ISABEL
Obtained qualification: 9.0
Date of reading: 27/07/2021
- 6** **Project title:** Estudio mediante simulación computacional de las causas de los alternantes de origen isquémico en cardiomiocitos ventriculares
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , LLORENTE LIPE, INES
Obtained qualification: 10.0
Date of reading: 14/07/2021
- 7** **Project title:** CONTRIBUTION TO THE IMPROVEMENT OF ELECTRICAL THERAPIES AND TO THE COMPREHENSION OF ELECTROPHYSIOLOGICAL MECHANISMS IN HEART FAILURE AND ACUTE ISCHEMIA USING COMPUTATIONAL SIMULATION
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Carpio Garay, Edison Fernando
Obtained qualification: SOBRESALIENTE (cum laude)
Date of reading: 26/01/2021
Quality recognition: No



- 8** **Project title:** Estudio mediante modelado matemático y simulación computacional de los efectos de la isquemia miocárdica aguda en el tejido cardíaco humano
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , ESTEBAN PATON, CLAUDIA
Obtained qualification: 10.0
Date of reading: 11/12/2020
- 9** **Project title:** Modelado y simulación computacional de la electroestimulación de neuronas piramidales in-vitro
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , SERRANO PALLICER, EMMA
Obtained qualification: 9.5
Date of reading: 24/09/2020
- 10** **Project title:** In silico study of calcium handling in the human failing heart
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Mora Fenoll, M^a Teresa
Obtained qualification: SOBRESALIENTE (cum laude)
Date of reading: 23/09/2020
Quality recognition: No
- 11** **Project title:** MODELADO COMPUTACIONAL Y SIMULACIÓN DEL POTENCIAL DE ACCIÓN DEL NODO AURICULOVENTRICULAR DE RATÓN
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , SALES BELLES, CLARA
Obtained qualification: 10.0
Date of reading: 11/09/2020
- 12** **Project title:** Desarrollo de un software para la simulación computacional del síndrome de Wolff-Parkinson-White
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , COSIN TOMAS, ALEXANDRE
Obtained qualification: 9.3
Date of reading: 08/09/2020
- 13** **Project title:** Modelado y simulación computacional de los efectos electrofisiológicos de la isquemia miocárdica en células cardíacas humanas aisladas
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GIRONES SANGUESA, MARTA
Obtained qualification: 9.2
Date of reading: 09/07/2020
- 14** **Project title:** Análisis computacional del papel de la corriente "funny" en el nodo auriculoventricular
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , MARTINEZ SEGURA, MARIA ISABEL
Obtained qualification: 10.0



Date of reading: 27/09/2019

- 15** **Project title:** Modelado y simulación de los efectos del síndrome de Brugada en el potencial de acción cardíaco
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , ESTEVE DOMINGUEZ, ANNA
Obtained qualification: 9.5
Date of reading: 25/09/2019
- 16** **Project title:** Desarrollo de un modelo computacional para la simulación de isquemia e hiperkalemia en cardiomiocitos ventriculares humanos.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GONZALEZ ASCASO, ANA
Obtained qualification: 10.0
Date of reading: 20/09/2019
- 17** **Project title:** Análisis computacional de ablaciones virtuales e inserciones de vías de conducción rápida en un tejido auricular 2D
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , PUCHE GARCIA, VIOLETA
Obtained qualification: 10.0
Date of reading: 16/09/2019
- 18** **Project title:** Estudio mediante modelado y simulación del efecto de las mitocondrias en el potencial de acción y la concentración de calcio en células cardíacas
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , ESTEBAN PATON, CLAUDIA
Obtained qualification: 10.0
Date of reading: 12/09/2019
- 19** **Project title:** Computational modelling of the human heart and multiscale simulation of its electrophysiological activity aimed at the treatment of cardiac arrhythmias related to ischaemia and Infarction
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: López Pérez, Alejandro Daniel
Obtained qualification: SOBRESALIENTE (cum laude)
Date of reading: 18/07/2019
Quality recognition: No
- 20** **Project title:** Modelado y simulación computacional de arritmias en tejidos formados por cardiomiocitos derivados de células pluripotenciales inducidas
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , DASÍ MARTINEZ, ALBERT
Obtained qualification: 10.0
Date of reading: 09/07/2019



- 21** **Project title:** Desarrollo de un software para la simulación computacional de la influencia de las mitocondrias en la dinámica intracelular de calcio en cardiomiocitos
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , ALBELLÀ HECTOR, ISABEL
Obtained qualification: 9.5
Date of reading: 28/09/2018
- 22** **Project title:** Estudio mediante modelado y simulación del efecto de la isquemia miocárdica sobre la pérdida de potasio en cardiomiocitos ventriculares
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , OLCINA GONZALEZ, PATRICIA
Obtained qualification: 10.0
Date of reading: 25/09/2018
- 23** **Project title:** Estudio de las manifestaciones electrocardiográficas de la isquemia miocárdica mediante modelado y simulación
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , KASSARA GUENNOUN, CHAIMAE
Obtained qualification: 9.5
Date of reading: 11/07/2018
- 24** **Project title:** Modelado y simulación del efecto de la fibrosis en insuficiencia cardíaca
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , GABALDON SANCHEZ, MARIA VICTORIA
Obtained qualification: 8.7
Date of reading: 30/01/2018
- 25** **Project title:** Análisis de regresión multivariable aplicado al modelado y simulación de la variabilidad electrofisiológica cardíaca
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , LOPEZ IBAÑEZ, DAVID
Obtained qualification: 8.5
Date of reading: 27/09/2017
- 26** **Project title:** Modelado y simulación del efecto de la fibrosis en isquemia miocárdica
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , FRANCES OLIVER, LORENA
Obtained qualification: 9.5
Date of reading: 27/09/2017
- 27** **Project title:** ESTUDIO COMPARATIVO DEL PAPEL DE LAS CORRIENTES IÓNICAS TRANSMEMBRANA EN EL POTENCIAL DE ACCIÓN VENTRICULAR CARDÍACO EN DIFERENTES ESPECIES ANIMALES MEDIANTE SIMULACIÓN COMPUTACIONAL
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València



Student: , HIDALGO SAURA, IRENE

Obtained qualification: 8.0

Date of reading: 21/09/2017

28 Project title: Estudio comparativo mediante modelado y simulación del efecto de los cambios isquémicos en el potencial de acción cardíaco de diferentes especies animales

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , PLANES LLINARES, CARLA LETICIA

Obtained qualification: 8.5

Date of reading: 14/09/2017

29 Project title: Desarrollo de un software para el estudio de la influencia de las proteínas transportadoras mitocondriales en la actividad bioeléctrica de los cardiomiocitos

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , ASENSIO ORTS, AINHOA

Obtained qualification: 10.0

Date of reading: 14/09/2017

30 Project title: Estudio mediante modelado y simulación del efecto de los fármacos y las mutaciones en la regulación intracelular del calcio en cardiomiocitos ventriculares de perro

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , RENU CARRETERO, ESTEFANIA

Obtained qualification: 10.0

Date of reading: 14/07/2017

31 Project title: Estudio mediante modelado y simulación del efecto del estiramiento miocárdico en el potencial de acción y en la regulación de potasio en cardiomiocitos de conejo

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , DIAZ MARTINEZ, MARIA DEL ALBA

Obtained qualification: 10.0

Date of reading: 14/07/2017

32 Project title: Desarrollo de un software para el estudio, mediante simulación computacional, de las causas de la hiperkalemia durante la isquemia miocárdica aguda

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , OLCINA GONZALEZ, PATRICIA

Obtained qualification: 10.0

Date of reading: 11/07/2017

33 Project title: Desarrollo de un software para el modelado de los efectos de la hiperglucemia en la actividad bioeléctrica del tejido nervioso del hipocampo

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , CHAVARRIA MARQUES, INES

Obtained qualification: 10.0

Date of reading: 11/07/2017



- 34** **Project title:** IMPACTO DE LA INFORMACIÓN DE CONTACTO EN LAS ABLACIONES CON CATÉTER EN TEJIDO AURICULAR: ANÁLISIS DESCRIPTIVO DE LA EXPERIENCIA DE UN CENTRO DE LA COMUNIDAD VALENCIANA.
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , PEREZ RAFELS, ELENA
Obtained qualification: 9.5
Date of reading: 22/09/2016
- 35** **Project title:** DESARROLLO DE UN ALGORITMO PARA LA DETECCIÓN DE CANALES LENTOS DE CONDUCCIÓN EN PACIENTES CON INFARTO DE MIOCARDIO ANTIGUO.
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , HERRAEZ GOMEZ, ANDRES VICENTE
Obtained qualification: 9.0
Date of reading: 22/09/2016
- 36** **Project title:** Modelado y simulación computacional del efecto de los canales de potasio sensibles a ATP en la cardioprotección miocárdica en isquemia aguda
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , PASSERA HERRERO, CRISTIAN
Obtained qualification: 8.5
Date of reading: 12/09/2016
- 37** **Project title:** Análisis de imágenes de tomografía axial computerizada cardiaca para la segmentación automática de grandes trabéculas
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , ROBERTO VELERT, CARLOS
Obtained qualification: 7.5
Date of reading: 12/09/2016
- 38** **Project title:** Estudio de la relación entre la hiperglucemia diabética y la epilepsia mediante simulación y modelado computacional de las neuronas del hipocampo
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , TORKI, BOUCHRA
Obtained qualification: 8.5
Date of reading: 18/07/2016
- 39** **Project title:** Estudio de las causas eléctricas de la hiperkalemia durante la isquemia miocárdica aguda en corazón humano mediante simulación computacional
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GARCIA DARAS, MIREIA
Obtained qualification: 10.0
Date of reading: 18/07/2016



- 40** **Project title:** Modelado del efecto eléctrico de los fármacos voltaje-dependientes en las células ventriculares de corazón: nuevo marco teórico
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GISBERT ROCA, FERNANDO
Obtained qualification: 9.7
Date of reading: 12/07/2016
- 41** **Project title:** Modelado del comportamiento eléctrico de los cardiomiocitos y cardiomiocitos derivados de células madre con mutaciones asociadas al síndrome LQT1
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , ESSAOUIBA, AMAL
Obtained qualification: 9.5
Date of reading: 12/07/2016
- 42** **Project title:** Estudio mediante modelado y simulación del efecto de la isquemia miocárdica aguda en las fibras de Purkinje de corazón humano
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GARCIA ESCOLANO, ALBA
Obtained qualification: 10.0
Date of reading: 12/07/2016
- 43** **Project title:** Modelado de arritmias reentrantes de origen eléctrico en corazones humanos personalizados a paciente con infarto de miocardio en fase crónica
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , FERRERO MICO, DANIEL
Obtained qualification: 9.7
Date of reading: 11/07/2016
- 44** **Project title:** ESTUDIO MEDIANTE SIMULACIÓN COMPUTACIONAL DE LAS CAUSAS DE LA ACUMULACIÓN EXTRACELULAR DE POTASIO EN ISQUEMIA MIOCÁRDICA AGUDA EN MODELO DE CONEJO.
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , SANCHEZ ARCINIEGAS, JORGE PATRICIO
Obtained qualification: 8.5
Date of reading: 07/07/2016
- 45** **Project title:** MODELADO MATEMÁTICO Y SIMULACIÓN COMPUTACIONAL DEL EFECTO DE LA ISQUEMIA MIOCÁRDICA AGUDA EN LAS FIBRAS DE PURKINJE DE CORAZÓN HUMANO
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , MORA FENOLL, MARIA TERESA
Obtained qualification: 10.0
Date of reading: 24/09/2015
- 46** **Project title:** Diseño y desarrollo de un sistema de electrocardiografía para el registro del vectocardiograma.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València



Student: , LLORCA NAVARRO, ROSA

Obtained qualification: 9.5

Date of reading: 16/07/2015

47 Project title: SIMULACIÓN COMPUTACIONAL DE LA RESPUESTA FARMACOLÓGICA EN MODELOS DE POTENCIAL DE ACCIÓN DE CORAZÓN DE PERRO

Type of project: Final Master Thesis

Entity: Universitat Politècnica de València

Student: , MADRID MONTOYA, ALBA

Obtained qualification: 9.0

Date of reading: 08/07/2015

48 Project title: RESPUESTA FARMACOLÓGICA EN MODELOS DE POTENCIAL DE CONEJO

Type of project: Final Master Thesis

Entity: Universitat Politècnica de València

Student: , BERENGUER VEGA, INES ANGELES

Obtained qualification: 9.3

Date of reading: 23/09/2014

49 Project title: MARKOV VERSUS HODGKIN & HUXLEY FORMALISM IN THE MODELLING OF CARDIAC ION CHANNELS: A SIMULATION STUDY OF THE DELAYED RECTIFIER K⁺ CURRENT

Type of project: Final Master Thesis

Entity: Universitat Politècnica de València

Student: , GODOY, EDUARDO JORGE

Obtained qualification: 9.0

Date of reading: 11/07/2013

50 Project title: DESARROLLO DE UN MODELO TRIDIMENSIONAL DE VENTRÍCULOS HUMANOS ANATÓMICAMENTE DETALLADO PARA SIMULACIÓN DE ELECTROFISIOLOGÍA CARDÍACA

Type of project: Final Master Thesis

Entity: Universitat Politècnica de València

Student: , LOPEZ PEREZ, ALEJANDRO DANIEL

Obtained qualification: 10.0

Date of reading: 11/07/2013

51 Project title: CARACTERIZACIÓN Y MODELADO MATEMÁTICO DE LOS MECANISMOS IÓNICOS CAUSANTES DEL SÍNDROME DE BRUGADA.

Type of project: Final Master Thesis

Entity: Universitat Politècnica de València

Student: , ROJAS SANCHEZ, CRISTINA

Obtained qualification: 10.0

Date of reading: 27/09/2012

52 Project title: MODELIZACIÓN Y SIMULACIÓN DE CORRIENTES IÓNICAS Y POTENCIAL DE ACCIÓN EN CÉLULAS ENDOCÁRDICAS, MIDMIOCÁRDICAS Y EPICÁRDICAS DE PERRO.

Type of project: Final Master Thesis

Entity: Universitat Politècnica de València

Student: , ROMERO RODRIGUEZ, JOAQUIN

Obtained qualification: 10.0

Date of reading: 05/07/2012

- 53** **Project title:** MODELIZACIÓN Y SIMULACIÓN DE CORRIENTES IÓNICAS DE POTASIO EN CÉLULAS CARDÍACAS A PARTIR DE DATOS DE PATCH-CLAMP:DESARROLLO DE LA HERRAMIENTA VOLTAGE-CLAMP FIT
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , CRUZ MONTILLA, NATALIA
Obtained qualification: 10.0
Date of reading: 02/02/2012
- 54** **Project title:** DESARROLLO Y ANÁLISIS DE UN MODELO COMPUTACIONAL DE LA DINÁMICA DE CALCIO EN EL MIOCITO VENTRICULAR
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , SERRA LLETI, JOSE MIGUEL
Obtained qualification: 9.5
Date of reading: 29/09/2011
- 55** **Project title:** SIMULATING THE EFFECTS OF POLYUNSATURATED FATTY ACIDS ON HUMAN SLOWLY ACTIVATING DELAYED RECTIFIER POTASSIUM CHANNEL (KCNQ1-KCNE1)
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , STARY, TOMAS
Obtained qualification: 9.5
Date of reading: 29/09/2011
- 56** **Project title:** MODELADO Y SIMULACIÓN DE LA CORRIENTE TRANSITORIA DE POTASIO EN CÉLULAS MIOCÁRDICAS DE PERRO. ANÁLISIS DE SU ROL EN LA RESERVA DE REPOLARIZACIÓN
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , CARBONELL PASCUAL, BEATRIZ
Obtained qualification: 10.0
Date of reading: 29/09/2011
- 57** **Project title:** ESTUDIO SOBRE UN SISTEMA PARA ELECTROPORACIÓN IN SITU DE CÉLULAS ADHERENTES
Type of project: Final Master Thesis
Entity: Universitat Politècnica de València
Student: , GARCIA SANCHEZ, TOMAS
Obtained qualification: 10.0
Date of reading: 30/11/2010
- 58** **Project title:** DISEÑO E IMPLEMENTACIÓN DE UN SISTEMA DE TRANSPORTE Y MAQUINARIA ORIENTADO A LA MEJORA DE LA EFICIENCIA DE LA LÍNEA DE MONTAJE DE MOTORES DURATEC-HE DE FORD ESPAÑA S.L.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , COSTAS MARCO, ELENA
Obtained qualification: 9.3
Date of reading: 24/09/2010



- 59** **Project title:** Sistema para Electroporación In Situ de Células Adherentes con Microelectrodos Interdigitados.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GARCIA SANCHEZ, TOMAS
Obtained qualification: 10.0
Date of reading: 19/07/2010
- 60** **Project title:** Algoritmos para ecuaciones de reacción-difusión aplicados a electrofisiología
Type of project: Doctoral thesis
Entity: UNIVERSIDAD DE ZARAGOZA
Student: Heidenreich, Elvio
Obtained qualification: Apto Cum Laude
Date of reading: 24/07/2009
- 61** **Project title:** SIMULACIÓN, DISEÑO Y DESARROLLO DE UN SISTEMA DE TELEMETRÍA PARA EL CONTROL DE MOTORES DE DC CON MONITORIZACIÓN MEDIANTE ENTORNO LABVIEW.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , SANCHEZ DIANA, LUIS DAVID
Obtained qualification: 9.3
Date of reading: 26/03/2009
- 62** **Project title:** Nuevo sistema de amplificación y conversión de señales analógicas de bajo nivel basado en circuitos de conmutación
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Vela Aguirre, Noé de Jesús
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 21/11/2008
Quality recognition: No
- 63** **Project title:** DISEÑO Y DESARROLLO DE UN ROBOT MÓVIL DIRIGIDO POR RADIOFRECUENCIA CON CONTROL MEDIANTE PIC.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , LLOPIS GOMEZ, JUAN MIGUEL
Obtained qualification: 9.0
Date of reading: 31/10/2008
- 64** **Project title:** Modelización matemática y simulación de los efectos de la lidocaína sobre la actividad eléctrica cardíaca en tejido ventricular.
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Cardona Urrego, Karen Eliana
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 24/07/2008
Quality recognition: Yes
- 65** **Project title:** Modelización matemática y simulación de los efectos de la isquemia miocárdica aguda sobre la conducción eléctrica en el tejido cardíaco ventricular.
Type of project: Doctoral thesis



Entity: Universitat Politècnica de València
Student: Romero Pérez, Lucia
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 19/12/2007
Quality recognition: Yes

66 Project title: Vulnerabilidad a arritmias por reentrada en pared ventricular heterogénea en presencia de isquemia regional: estudio teórico de simulación.

Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Henao Gallo, Óscar Alberto
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 18/07/2007
Quality recognition: No

67 Project title: DISEÑO Y DESARROLLO DE SISTEMAS DE MODULACIÓN Y DEMODULACIÓN LINEAL PARA APLICACIONES DIDÁCTICAS.

Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , SALINAS RAMON, LUIS MIGUEL
Obtained qualification: 9.2
Date of reading: 26/04/2007

68 Project title: DISEÑO, SIMULACIÓN E IMPLEMENTACIÓN HARDWARE DE EFECTOS DE AUDIO PARA GUITARRA ELÉCTRICA.

Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , REY FRAGA, MIGUEL
Obtained qualification: 9.5
Date of reading: 27/10/2006

69 Project title: CARACTERIZACIÓN DE LA VULNERABILIDAD A ARRITMIAS POR REENTRADA EN VENTRÍCULO HETEROGÉNEO EN PRESENCIA DE ISQUEMIA REGIONAL: ESTUDIO MEDIANTE SIMULACIÓN EN EPICARDIO Y PARED TRANSMURAL

Type of project: Work leading to an ASD
Entity: Universitat Politècnica de València
Student: , HENAO GALLO, OSCAR ALBERTO
Date of reading: 10/05/2006

70 Project title: ESTUDIO COMPARATIVO DE METODOS DE PREPROCESADO, SEGMENTACIÓN Y EXTRACCIÓN DE PARÁMETROS EN EL ELECTROCARDIOGRAMA. APLICACIÓN A LA DETECCIÓN DE LA ISQUEMIA

Type of project: Work leading to an ASD
Entity: Universitat Politècnica de València
Student: , AVENDAÑO, LUIS ENRIQUE
Date of reading: 10/05/2006

71 Project title: LA DURACIÓN DE LA ONDA T DEL ELECTROCARDIOGRAMA COMO INDICADOR DE LA DISPERSION EN LA REPOLARIZACIÓN CARDÍACA: ESTUDIO MEDIANTE SIMULACIÓN

Type of project: Work leading to an ASD
Entity: Universitat Politècnica de València
Student: , IBÁÑEZ NEYRA, ANA JULIA



Date of reading: 09/02/2006

- 72** **Project title:** MODELIZACION DEL COMPORTAMIENTO ELÉCTRICO DEL FÁRMACO ANTIARRÍTMICO CLASE IB-LIDOCAÍNA EN CÉLULAS DEL MIOCARDIO EN COBAYA Y CONEJO
Type of project: Work leading to an ASD
Entity: Universitat Politècnica de València
Student: , CARDONA URREGO, KAREN ELIANA
Date of reading: 18/10/2005
- 73** **Project title:** EFECTO DE LA ISQUEMIA SOBRE LAS CURVAS DE RESTITUCIÓN EN TEJIDO VENTRICULAR
Type of project: Work leading to an ASD
Entity: Universitat Politècnica de València
Student: , ROMERO PEREZ, LUCIA
Date of reading: 04/05/2005
- 74** **Project title:** DISEÑO Y DESARROLLO DE UN SISTEMA SOFTWARE PARA EL DIAGNÓSTICO AUTOMÁTICO DE PATOLOGÍAS CARDÍACAS.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GIMENEZ CISILINO, GABRIEL
Obtained qualification: 9.5
Date of reading: 25/02/2005
- 75** **Project title:** DISEÑO Y DESARROLLO DE SISTEMAS DE MODULACIÓN Y DEMODULACIÓN NO LINEAL PARA APLICACIONES DIDÁCTICAS.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , JORDA SERRANO, JORGE
Obtained qualification: 8.7
Date of reading: 27/02/2004
- 76** **Project title:** ESTUDIO DE LA FIBRILACIÓN AURICULAR MEDIANTE TÉCNICAS TIEMPO-FRECUENCIA.
Type of project: Work leading to an ASD
Entity: Universitat Politècnica de València
Student: , GARCIA GOMEZ, GILBERTO
Date of reading: 30/06/2003
- 77** **Project title:** Modelización matemática y simulación de los efectos del pinacidil y el nicorandil sobre la actividad eléctrica de las células cardíacas en la fase aguda de la isquemia miocárdica.
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Trénor Gomis, Beatriz Ana
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 11/12/2001
Quality recognition: No
- 78** **Project title:** Modelización de la actividad eléctrica de las células cardíacas. Estudio de la acumulación extracelular de K⁺ en la fase aguda de la Isquemia Miocárdica.
Type of project: Doctoral thesis
Entity: Universitat Politècnica de València
Student: Rodríguez López, Blanca



Obtained qualification: SOBRESALIENTE CUM LAUDE

Date of reading: 10/12/2001

Quality recognition: No

- 79** **Project title:** Modelización y simulación del efecto de la corriente transitoria de salida sobre la actividad eléctrica de las células epicárdicas. Aplicación al estudio de mecanismos arritmogénicos.

Type of project: Doctoral thesis

Entity: Universitat Politècnica de València

Student: Torres Carot, Vicente

Obtained qualification: SOBRESALIENTE CUM LAUDE

Date of reading: 08/02/2001

Quality recognition: No

- 80** **Project title:** DESARROLLO DE UN PROGRAMA DE SIMULACIÓN DE LA ACTIVIDAD ELÉCTRICA DEL CORAZÓN BASADO EN UN MODELO DE AUTÓMATA CELULAR.

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , GONET, JEAN-MICHEL

Obtained qualification: 10.0

Date of reading: 14/04/2000

- 81** **Project title:** Estudio mediante modelización matemática de la actividad ectópica inducida por postdespolarizaciones tempranas en tejido cardíaco ventricular

Type of project: Doctoral thesis

Entity: Universitat Politècnica de València

Student: Monserrat Del Río, Marta María

Obtained qualification: SOBRESALIENTE CUM LAUDE

Date of reading: 09/07/1999

Quality recognition: No

- 82** **Project title:** Emulador de "ratón" integrado para usuarios con discapacidades motoras.

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , MONTERDE DIAZ, RAFAEL

Obtained qualification: 10.0

Date of reading: 25/09/1998

- 83** **Project title:** DESARROLLO DE UN MODELO DE COMPORTAMIENTO ELECTRICO DE LOS MIOCITOS AURICULARES.

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , MARTINEZ TALLO, ANGEL

Obtained qualification: 10.0

Date of reading: 09/09/1998

- 84** **Project title:** Diseño e implantación de un sistema de producción con tecnología avanzada en una planta elaboradora y embotelladora de vino, situada en Alcalá del Júcar.

Type of project: Bachelor's Degree Final Project

Entity: Universitat Politècnica de València

Student: , TORRES CEBRIAN, MOISES

Obtained qualification: 9.5



Date of reading: 24/07/1998

- 85** **Project title:** Instalación para tratamiento y secado de los lodos de mecanizado, procedentes de las operaciones de fabricación de las plantas de motores HCS y ZETEC-SE en Ford
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , SELMA MONTILLA, MARINA
Obtained qualification: 9.5
Date of reading: 24/07/1998
- 86** **Project title:** Diseño, Simulación e Implementación de un Circuito Analógico para la Simulación de la Actividad Eléctrica de las Células Neuronales.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , RODRIGUEZ LOPEZ, BLANCA
Obtained qualification: 10.0
Date of reading: 10/12/1997
- 87** **Project title:** Diseño e Implementación de un Circuito Analógico para la Simulación de la Actividad Eléctrica de las Células Cardíacas.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , TRENOR GOMIS, BEATRIZ
Obtained qualification: 10.0
Date of reading: 10/12/1997
- 88** **Project title:** Proyecto de desarrollo integral para las Comunidades de reubicación en Chalatenango (El Salvador)
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , BLASCO CERVERA, IGNACIO
Obtained qualification: 10.0
Date of reading: 26/09/1997
- 89** **Project title:** DISEÑO DE UN SISTEMA DE ADQUISICION DE DATOS ELECTROCARDIOGRAFICOS SOBRE PC.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , SIMO MELENDEZ, JUAN-RAFAEL
Obtained qualification: 10.0
Date of reading: 16/11/1995
- 90** **Project title:** DETECCION DE CARDIOPATIAS. SISTEMA DE ANALISIS DE ECG.
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , MATEU MULLOR, JUAN
Obtained qualification: 10.0
Date of reading: 29/09/1995
- 91** **Project title:** DESARROLLO DE UN MODELO DE LA CONDUCCION ELECTRICA EN EL CORAZON, BASADO EN LAS ECUACIONES DE DIFRANCESCO-NOBLE Y NOBLE-NOBLE
Type of project: Bachelor's Degree Final Project



Entity: Universitat Politècnica de València
Student: , MONSERRAT DEL RIO, MARTA MARIA
Obtained qualification: 10.0
Date of reading: 16/12/1994

92 **Project title:** DESARROLLO DE ALGORITMOS DE COMPRESION, EN TIEMPO REAL, DE REGISTROS ELECTROCARDIOGRAFICOS DE LARGA DURACION
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , GONZALEZ VALERO, NURIA-CARMEN
Obtained qualification: 10.0
Date of reading: 27/09/1993

93 **Project title:** ESTUDIO TEORICO-EXPERIMENTAL DE LA APLICACION DE TECNICAS DE MODULACION A LA CAPTACION DE SEÑALES BIOELECTRICAS
Type of project: Bachelor's Degree Final Project
Entity: Universitat Politècnica de València
Student: , FORNER CORDERO, ARTURO
Obtained qualification: 10.0
Date of reading: 11/01/1993

Educational or pedagogical publications, books, articles, etc.

- 1** Alejandra Boni Aristizábal; José Félix Lozano Aguilar; Eva Adam Picazo; Enrique Berjano Zanón; Carola Calabuig Tormo; Carmen Amparo Capilla Roma; Javier Carballeira Morado; José María Ferrero De Loma-Orsorio; M^a de los Llanos Gómez Torres; Penélope Mac Donald Lightbound; Cristóbal Javier Miralles Insa; Pau Miró Martínez; José M^a Monzó Balbuena; María Coral Ortiz Sánchez; Guillermo Palau Salvador; Vicente Rioja Castellano; KATHARINA SABINE SCHLIERF. La educación en valores en la universidad Los dilemas morales como herramienta de trabajo en los estudios científico-técnicos. 2^a edición ampliada. Editorial de la UPV, 2006. ISBN 84-8363-042-7
Format: Book
- 2** José María Ferrero Corral; José María Ferrero De Loma-Orsorio. Manual de Diseño de Circuitos Analógicos con Amplificadores Operacionales. S.P.U.P.V., 2001. ISBN 84-9705-060-6
Format: Book
- 3** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio; Yolanda Jiménez Jiménez; Tomás Carlos Sogorb Devesa. Sistemas Electrónicos de Comunicaciones I. Servicio de Publicaciones UPV, 2000. ISBN 84-7721-879-X
Format: Book
- 4** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio; Yolanda Jiménez Jiménez; Tomás Carlos Sogorb Devesa. Sistemas Electrónicos de Comunicaciones II. Servicio de Publicaciones UPV, 2000. ISBN 84-7721-909-5
Format: Book
- 5** José María Ferrero Corral; José María Ferrero De Loma-Orsorio. Bioelectrónica. Señales bioeléctricas. SPUPV, 1994. ISBN 84-7721-250-3
Format: Book
- 6** José María Ferrero Corral; Enrique Domingo Guijarro Estelles; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. Instrumentación Electrónica. Sensores (1). Servicio de Publicaciones U.P.V., 1994. ISBN 84-7721-271-6



Format: Book

- 7** José María Ferrero De Loma-Orsorio. Introducción a las Técnicas Analógicas. El Amplificador Operacional. SPUPV, 1990. ISBN 84-7721-122-1
Format: Book
- 8** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Comportamiento de los componentes electrónicos y circuitos a alta frecuencia. Tratamiento y Transmisión de Señales. 1, pp. 1 - 13. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books
- 9** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Conceptos sobre el ruido y la distorsión no lineal en los circuitos electrónicos. Tratamiento y Transmisión de Señales. 2, pp. 1 - 17. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books
- 10** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Redes Selectivas y de adaptación de Impedancias. Tratamiento y Transmisión de Señales. 3, pp. 1 - 17. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books
- 11** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Osciladores. Tratamiento y Transmisión de Señales. 5, pp. 1 - 18. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books
- 12** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Circuitos y subsistemas electrónicos en emisores y receptores. Tratamiento y Transmisión de Señales. 7, pp. 1 - 19. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books
- 13** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Bucles de enganche de fase. Tratamiento y Transmisión de Señales. 6, pp. 1 - 26. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books
- 14** Antonio Arnau Vives; José María Ferrero De Loma-Orsorio. Amplificadores de pequeña señal a altas frecuencias. Tratamiento y Transmisión de Señales. 4, pp. 1 - 42. Enrique Sanchís Peris y Vicente Gonzalez Millán, 1999. ISBN 84-699-1565-7
Format: Chapters of books

Awards received for innovation in the field teaching

- 1** **Name of the prize:** Premio de Excelencia Docente 2017 de la Escuela Técnica Superior de Ingenieros Industriales
Conferral date: 2017
- 2** **Name of the prize:** Premio Bancaja como tutor del mejor Proyecto Final de Carrera 2010
Conferral date: 2010



Scientific and technological experience

Research and development groups/teams

Name of the group: Centro de Investigación e Innovación en Bioingeniería

Scientific or technological activities

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

- 1** **Name of the project:** SIMULATION OF CARDIAC DEVICES & DRUGS FOR IN-SILICO TESTING AND CERTIFICATION (101016496)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Beatriz Ana Trenor Gomis
Nº of researchers: 10
Funding entity or bodies:
COMISION DE LAS COMUNIDADES EUROPEA
Start date: 01/01/2021 **Duration:** 3 years - 11 months - 30 days
Total amount: 592.125 €
- 2** **Name of the project:** MODELO MULTIESCALA DE PATOLOGIAS CARDIACAS Y OPTIMIZACION DE TERAPIAS PERSONALIZADAS (PID2019-104356RB-C41)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez; Beatriz Ana Trenor Gomis
Nº of researchers: 10
Funding entity or bodies:
AGENCIA ESTATAL DE INVESTIGACION
Start date: 01/06/2020 **Duration:** 2 years - 11 months - 30 days
Total amount: 198.077 €
- 3** **Name of the project:** MODELOS IN-SILICO MULTI-FISICOS Y MULTI-ESCALA DEL CORAZON PARA EL DESARROLLO DE NUEVOS METODOS DE PREVENCION, DIAGNOSTICO Y TRATAMIENTO EN MEDICINA PERSONALIZADA (HEART IN-SILICO MODELS) (PROMETEO/2020/043)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez
Nº of researchers: 8
Funding entity or bodies:
GENERALITAT VALENCIANA
Start date: 01/01/2020 **Duration:** 3 years - 11 months - 30 days
Total amount: 161.136 €

- 4** **Name of the project:** PLATAFORMA DE COMPUTACION INTENSIVA MEDIANTE ACELERADORES GRAFICOS (GPUS) PARA SU APLICACION EN MEDICINA PERSONALIZADA (IDIFEDER/2018/032)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Ignacio Blanquer Espert
Nº of researchers: 22
Funding entity or bodies:
GENERALITAT VALENCIANA
Start date: 01/01/2018 **Duration:** 1 year - 11 months - 30 days
Total amount: 318.111,4 €
- 5** **Name of the project:** TECNOLOGIAS COMPUTACIONALES PARA LA OPTIMIZACION DE TERAPIAS PERSONALIZADAS DE PATOLOGIAS AURICULARES Y VENTRICULARES (DPI2016-75799-R)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Beatriz Ana Trenor Gomis
Nº of researchers: 6
Funding entity or bodies:
AGENCIA ESTATAL DE INVESTIGACION
Start date: 30/12/2016 **Duration:** 2 years - 11 months - 30 days
Total amount: 122.210 €
- 6** **Name of the project:** MODELOS COMPUTACIONALES PERSONALIZADOS MULTI-ESCALA PARA LA OPTIMIZACION DEL DIAGNOSTICO Y TRATAMIENTO DE ARRITMIAS CARDIACAS (PERSONALISED DIGITAL HEART) (PROMETEO/2016/088)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez
Nº of researchers: 5
Funding entity or bodies:
GENERALITAT VALENCIANA
Start date: 01/01/2016 **Duration:** 3 years - 11 months - 30 days
Total amount: 204.167 €
- 7** **Name of the project:** COMPUTATIONAL TECHNOLOGIES FOR PERSONALIZED ANTI-ARRHYTHMIC TREATMENTS (PCARDIOTREAT). (APE/2015/028)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez
Nº of researchers: 4
Funding entity or bodies:
GENERALITAT VALENCIANA
Start date: 01/01/2015 **Duration:** 11 months - 30 days
Total amount: 4.000 €
- 8** **Name of the project:** AYUDAS PARA CONTRATOS PREDOCTORALES PARA LA FORMACION DE DOCTORES-LOPEZ PEREZ ALEJANDRO DANIEL (BES-2013-064089)
Entity where project took place: Universitat Politècnica de València
Nº of researchers: 3
Funding entity or bodies:
MINISTERIO DE ECONOMIA Y EMPRESA
Start date: 01/01/2014 **Duration:** 4 years
Total amount: 82.400 €

- 9** **Name of the project:** Corazón Humano Completo Fisiológico Virtual: mejoras en el tratamiento de arritmias cardiacas orientado a paciente (TIN2012-37546-C03-01)

Degree of contribution: Researcher

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 8

Funding entity or bodies:

MINISTERIO DE ECONOMIA Y EMPRESA

Start date: 01/01/2013

Duration: 2 years - 11 months - 30 days

Total amount: 156.780 €

- 10** **Name of the project:** CARACTERIZACIÓN Y MODELADO MATEMÁTICO DE LOS EFECTOS DE LA TEMPERATURA SOBRE LA HOMEOSTASIS DEL CALCIO EN EL SÍNDROME DE BRUGADA (SP20120431)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): María Salud Guillem Sánchez

Nº of researchers: 5

Funding entity or bodies:

UNIVERSIDAD POLITÉCNICA DE VALENCIA

Start date: 31/12/2012

Duration: 1 year

Total amount: 8.500 €

- 11** **Name of the project:** MEJORA EN LA PREVENCIÓN Y TRATAMIENTO DE PATOLOGÍAS CARDÍACAS A TRAVÉS DE LA MODELIZACIÓN MULTI-ESCALA Y LA SIMULACIÓN COMPUTACIONAL (DIGITAL HEART) (PROMETEO/2012/030)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez

Nº of researchers: 5

Funding entity or bodies:

GENERALITAT VALENCIANA; GENERALITAT VALENCIANA

Start date: 01/01/2012

Duration: 3 years - 11 months - 30 days

Total amount: 189.482 €

- 12** **Name of the project:** ESTUDIO DE TERAPIAS FARMACOLÓGICAS APLICADAS A PACIENTES CON PATOLOGÍAS CONGENITAS MEDIANTE EL MODELADO Y SIMULACIÓN MULTI-ESCALA DEL CORAZÓN. (2002)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Lucía Romero Pérez

Nº of researchers: 6

Funding entity or bodies:

UNIVERSIDAD POLITÉCNICA DE VALENCIA

Start date: 01/12/2011

Duration: 2 years

Total amount: 12.000 €

- 13** **Name of the project:** CARACTERIZACIÓN Y MODELADO MATEMÁTICO DE LOS MECANISMOS IONICOS CAUSANTES DEL SÍNDROME DE BRUGADA (2795)

Degree of contribution: Researcher

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio



Nº of researchers: 5

Funding entity or bodies:

UNIVERSIDAD POLITECNICA DE VALENCIA

Start date: 01/12/2011

Duration: 1 year

Total amount: 8.500 €

14 Name of the project: CONTRATO FPI MINISTERIO DUX-SANTOY HURTADO (BES-2009-016071)

Degree of contribution: Researcher

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 3

Funding entity or bodies:

MINISTERIO DE EDUCACION

Start date: 01/09/2011

Duration: 2 years

Total amount: 7.187,39 €

15 Name of the project: LOCALIZACIÓN DEL ORIGEN DE ARRITMIAS CARDIACAS MEDIANTE MODELADO Y TECNOLOGÍAS DE LA INFORMACIÓN Y COMUNICACIONES (TSI-020100-2010-469)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Beatriz Ana Trenor Gomis

Nº of researchers: 5

Funding entity or bodies:

MINISTERIO DE INDUSTRIA, COMERCIO Y TURISMO

Start date: 01/01/2011

Duration: 2 years - 5 months - 29 days

Total amount: 51.356,42 €

16 Name of the project: DESARROLLO DE UN CORAZON VIRTUAL ADAPTADO A PACIENTES CON PATOLOGIA ISQUEMICA Y DEFECTOS GENETICOS PARA LA SIMULACION DE SU ACTIVIDAD ELECTRICA Y LA MEJORA DEL DIAGNOSTICO (PAID-06-09-2843)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Beatriz Ana Trenor Gomis

Nº of researchers: 7

Funding entity or bodies:

UNIVERSIDAD POLITECNICA DE VALENCIA

Start date: 01/12/2009

Duration: 2 years

Total amount: 9.000 €

17 Name of the project: MODELO MULTI-ESCALA DEL CORAZON. APLICACION EN LA PREVENCION, DIAGNOSTICO Y TRATAMIENTO DE ARRITMIAS CARDIACAS (TEC2008-02090)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez

Nº of researchers: 12

Funding entity or bodies:

MINISTERIO DE EDUCACION

Start date: 01/01/2009

Duration: 2 years - 11 months - 30 days

Total amount: 271.403 €



- 18** **Name of the project:** MODELO MULTI-ESCALA DEL CORAZON, APLICACION EN LA PREVENCION, DIAGNOSTICO Y TRATAMIENTO DE ARRITMIAS CARDIACAS (ACOMP/2009/233)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez
Nº of researchers: 9
Funding entity or bodies:
GENERALITAT VALENCIANA
Start date: 01/01/2009 **Duration:** 1 year
Total amount: 8.000 €
- 19** **Name of the project:** COMPUTATIONAL PREDICTION OF DRUG CARDIAC TOXICITY (224381)
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez
Nº of researchers: 9
Funding entity or bodies:
COMISION DE LAS COMUNIDADES EUROPEA
Start date: 01/06/2008 **Duration:** 3 years
Total amount: 521.478 €
- 20** **Name of the project:** MODELOS TEÓRICOS Y COMPUTACIÓN AVANZADA EN EL ESTUDIO DE SEÑALES BIOELÉCTRICAS EN CÉLULAS Y TEJIDOS. IMPLICACIONES EN EL ANÁLISIS DE ARRITMIAS CARDÍACAS, ELECTROESTIMULACIÓN Y ABLACIÓN POR RADIOFR.... (TEC2005-04199)
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio
Nº of researchers: 13
Funding entity or bodies:
MINISTERIO DE EDUCACION
Start date: 31/12/2005 **Duration:** 3 years
Total amount: 191.114,2 €
- 21** **Name of the project:** GESTION ANTICIPO REINTEGRABLE (200600107) (TEC2005-04199-AR)
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio
Nº of researchers: 2
Funding entity or bodies:
MINISTERIO DE EDUCACION
Start date: 31/12/2005 **Duration:** 3 years
Total amount: 133.779,8 €
- 22** **Name of the project:** GESTION ANTICIPO REINTEGRABLE (20050166) (TIN2004-03602-AR)
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio
Nº of researchers: 2
Funding entity or bodies:
MINISTERIO DE EDUCACION
Start date: 01/05/2005 **Duration:** 3 years



Total amount: 9.660 €

- 23** **Name of the project:** COMPUTACION AVANZADA EN LA MODELIZACION DE LA ACTIVIDAD ELECTRICA DEL CORAZON. SIMULACION Y ANALISIS DE RITMOS COMPLEJOS ASOCIADOS A ARRITMIAS CARDIACAS EN ESTRUCTURAS ANATOMICAMENTE REALISTAS. (TIN2004-03602)

Degree of contribution: Researcher

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 12

Funding entity or bodies:

MINISTERIO DE EDUCACION

Start date: 01/05/2005

Duration: 1 year

Total amount: 13.800 €

- 24** **Name of the project:** EVALUACION DE LA TEXTURA DEL QUESO MEDIANTE EL USO DE LA ELECTROMIOGRAFIA (PPI-05-01 5916)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Antonio Mulet Pons

Nº of researchers: 11

Funding entity or bodies:

UNIVERSIDAD POLITECNICA DE VALENCIA

Start date: 27/09/2001

Duration: 2 years

Total amount: 18.030,36 €

- 25** **Name of the project:** ESTUDIO TEORICO DE LOS EFECTOS PROARRITMICOS Y ... (Desconocido)

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 4

Funding entity or bodies:

CONSELLERIA DE CULTURA, EDUCACIÓN Y CIENCIA. D.G. DE ENSEÑANZAS UNIVERSITARIAS E INVESTIGACIÓN

Start date: 01/01/1999

Duration: 2 years

Total amount: 8.714,68 €

- 26** **Name of the project:** ESTUDIO TEORICO DE LOS EFECTOS PROARRITMICOS Y ANTIARRITMICOS DE LA ACTIVACION DE LA CORRIENTE DE POTASIO SENSIBLE A ATP EN LA FASE AGUDA DE LA ISQUEMIA MIOCARDICA. MODELIZACION DEL EFECTO DE LOS FARMACOS MODULADORES DE LOS CANALES DE POTASIO (Desconocido)

Degree of contribution: Researcher

Entity where project took place: UPV

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 5

Funding entity or bodies:

Vicerrectorado de Investigación

Start date: 01/01/1999

Duration: 2 years

Total amount: 15.866,72 €

27 **Name of the project:** ESTUDIO TEORICO DE LOS EFECTOS PROARRITMICOS Y ANTIARRITMICOS DE LA ACTIVACION DE LA CORRIENTE DE POTASIO SENSIBLE A ATP EN LA FASE AGUDA DE LA ISQUEMIA MIOCARDICA. MODELIZACION DEL EFECTO DE LOS FARMACOS MODULADORES DE LOS CANALES DE POTASIO (GV98-12-78)

Degree of contribution: Researcher

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 4

Funding entity or bodies:

GENERALITAT VALENCIANA

Start date: 01/01/1999

Duration: 2 years

Total amount: 12.020,25 €

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

1 **Name of the project:** PREDICTIVE MULTISCALE IN SILICO CARDIO-PHARMACOLOGY

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Lucia Romero Pérez

Nº of researchers: 5

Funding entity or bodies:

UNIVERSITY OF CALIFORNIA, DAVIS

Start date: 05/07/2016

Duration: 2 years - 11 months - 25 days

Total amount: 99.747,02 €

2 **Name of the project:** PRESTACIONES DE SERVICIO DE JOSE MARIA FERRERO DE LOMA-OSORIO

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 1

Funding entity or bodies:

ELZABURU, S.L.P.

Start date: 25/06/2013

Duration: 3 years - 6 months - 5 days

Total amount: 19.691,85 €

3 **Name of the project:** PREDICTION OF THE CARDIOTOXICITY OF ANTIARRHYTHMIC DRUGS USING CARDIAC MODELING

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Beatriz Ana Trenor Gomis

Nº of researchers: 5

Funding entity or bodies:

GILEAD SCIENCES, INC

Start date: 01/10/2011

Duration: 11 months - 29 days

Total amount: 210.000 €

4 **Name of the project:** ASESORAMIENTO Y APOYO TECNOLÓGICO EN TEMAS RELACIONADOS CON LA TRADUCCIÓN DE PATENTES

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 1

Funding entity or bodies:



ELZABURU, S.L.P.

Start date: 28/06/2010

Duration: 3 years

Total amount: 14.351,02 €

5 Name of the project: DESARROLLO DE UN PROTOTIPO N-MOTE EN EL MARCO DEL PROYECTO NUUBO-2

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez

Nº of researchers: 7

Funding entity or bodies:

SMART SOLUTIONS TECHNOLOGIES, S.L.

Start date: 01/05/2010

Duration: 6 months

Total amount: 53.200 €

6 Name of the project: ROLE OF LATE SODIUM CURRENT IN ACTION POTENTIAL OF VENTRICULAR CELLS

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez

Nº of researchers: 5

Funding entity or bodies:

GILEAD PALO ALTO, INC

Start date: 15/03/2010

Duration: 6 months

Total amount: 23.700 €

7 Name of the project: DESARROLLO DE UN PROTOTIPO N-MOTE EN EL MARCO DEL PROYECTO BT-WBS-NUUBO

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez

Nº of researchers: 5

Funding entity or bodies:

SMART SOLUTIONS TECHNOLOGIES, S.L.

Start date: 01/12/2008

Duration: 3 months

Total amount: 23.100 €

8 Name of the project: ACCION COMPLEMENTARIA DEL MEC A LA ORGANIZACION EDICION Nº 33 CONGRESO COMPUTERS IN CARDIOLOGY (TEC2006-26841-E)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 4

Funding entity or bodies:

MINISTERIO DE EDUCACION

Start date: 01/03/2006

Duration: 1 year - 7 months

Total amount: 9.000 €

9 Name of the project: GESTION ANTICIPO REINTEGRABLE (20070259) (TEC2006-26841-E-AR)

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Osorio

Nº of researchers: 2

Funding entity or bodies:



MINISTERIO DE EDUCACION

Start date: 01/03/2006**Duration:** 1 year - 7 months**Total amount:** 6.300 €**10 Name of the project:** SW DE DETECCION DE ARRITMIAS CARDIACAS**Entity where project took place:** Universitat Politècnica de València**Name principal investigator (PI, Co-PI....):** Francisco Javier Saiz Rodríguez**Nº of researchers:** 6**Funding entity or bodies:**

CORPORACION EMPRESARIAL ALTRA, S.L.

Start date: 01/03/2006**Duration:** 7 months**Total amount:** 28.392 €**11 Name of the project:** 33RD EDITION OF COMPUTERS IN CARDIOLOGY CONFERENCE (PAID-03-06-2644)**Entity where project took place:** Universitat Politècnica de València**Name principal investigator (PI, Co-PI....):** José María Ferrero De Loma-Osorio; José María Ferrero Corral**Nº of researchers:** 3**Funding entity or bodies:**

UNIVERSIDAD POLITECNICA DE VALENCIA

Start date: 01/01/2006**Duration:** 1 year - 10 months**Total amount:** 4.000 €**12 Name of the project:** COMPUTERS IN CARDIOLOGY (ADIF06/018)**Entity where project took place:** Universitat Politècnica de València**Name principal investigator (PI, Co-PI....):** José María Ferrero De Loma-Osorio**Nº of researchers:** 1**Funding entity or bodies:**

GENERALITAT VALENCIANA

Start date: 01/01/2006**Duration:** 1 year**Total amount:** 8.210 €**13 Name of the project:** SISTEMA JERARQUIZADO Y AUTONOMO PARA EL CONTROL Y VIGILANCIA DE PACIENTES EN REHABILITACION CARDIACA FASE III, CONVICARE III**Entity where project took place:** Universitat Politècnica de València**Name principal investigator (PI, Co-PI....):** Francisco Javier Saiz Rodríguez**Nº of researchers:** 10**Funding entity or bodies:**

MERCEV. ELECTROMEDICINA, S.L.

Start date: 01/01/2005**Duration:** 1 year - 3 months**Total amount:** 70.770 €**14 Name of the project:** AYUDA DE LA UPV AL II CONGRESO PATRIMONIO CULTURAL Y COOPERACION AL DESARROLLO (PPI-04-05-2741)**Entity where project took place:** Universitat Politècnica de València**Name principal investigator (PI, Co-PI....):** Gaspar Muñoz Cosme**Nº of researchers:** 2**Funding entity or bodies:**



UNIVERSIDAD POLITECNICA DE VALENCIA

Start date: 01/01/2005

Duration: 1 year

Total amount: 1.500 €

15 **Name of the project:** INVESTIGACION, DISEÑO Y DESARROLLO DE UN MARCAPASOS TRANSTORACICO

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): Francisco Javier Saiz Rodríguez

Nº of researchers: 5

Funding entity or bodies:

OSATU, SOCIEDAD COOPERATIVA

Start date: 01/11/2001

Duration: 6 months

Total amount: 23.259,17 €

16 **Name of the project:** INICIATIVA POR EL DESARROLLO RURAL DE NICARAGUA

Entity where project took place: Universitat Politècnica de València

Name principal investigator (PI, Co-PI....): José María Ferrero De Loma-Ororio

Nº of researchers: 3

Funding entity or bodies:

MINISTERIO AGROPECUARIO Y FORESTAL

Start date: 01/06/2000

Duration: 7 months

Total amount: 6.475,67 €

Results

Industrial and intellectual property

Title registered industrial property: Método y dispositivo para la amplificación y conversión de señales analógicas

Type of industrial property: Patent of invention

Inventors/authors/obtainers: José María Ferrero Corral; José María Ferrero De Loma-Ororio; Enrique Domingo Guijarro Estelles

Entity holder of rights: UNIVERSIDAD POLITECNICA DE VALENCIA

Nº of application: 200302004

Date of register: 14/08/2003



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 EDISON FERNANDO CARPIO GARAY; Juan Francisco Gómez García; José Félix Rodríguez Matas; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. Analysis of vulnerability to reentry in acute myocardial ischemia using a realistic human heart model. *Computers in Biology and Medicine*. 141, 2022. ISSN 0010-4825. DOI: 10.1016/j.combiomed.2021.105038
Type of production: Scientific paper **Format:** Journal
- 2 Albert Dasí Martínez; Ismael Hernández Romero; Juan Francisco Gómez García; Batiste Andreu Martínez Climent; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. Analysis of the response of human iPSC-derived cardiomyocyte tissue to I CaL block. A combined in vitro and in silico approach. *Computers in Biology and Medicine*. 137, pp. 1 - 10. 2021. ISSN 0010-4825. DOI: <https://doi.org/10.1016/j.combiomed.2021.104796>
Type of production: Scientific paper **Format:** Journal
- 3 MARÍA TERESA MORA FENOLL; Juan Francisco Gómez García; Gregory Morley; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. Mechanistic investigation of Ca²⁺ alternans in human heart failure and its modulation by fibroblasts. *PLoS ONE*. 14, pp. 1 - 19. 2019. ISSN 1932-6203. DOI: 10.1371/journal.pone.0217993
Type of production: Scientific paper **Format:** Journal
- 4 EDISON FERNANDO CARPIO GARAY; Juan Francisco Gómez García; Rafael Sebastian; ALEJANDRO DANIEL LÓPEZ PÉREZ; Eduardo Castellanos; Jesus Almendral; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. Optimization of Lead Placement in the Right Ventricle During Cardiac Resynchronization Therapy. A Simulation Study. *Frontiers in Physiology*. 10, pp. 1 - 17. 2019. ISSN 1664-042X. DOI: 10.3389/fphys.2019.00074
Type of production: Scientific paper **Format:** Journal
- 5 MARÍA TERESA MORA FENOLL; José María Ferrero De Loma-Orsorio; Juan Francisco Gómez García; Eric A Sobie; Beatriz Ana Trenor Gomis. Ca²⁺ Cycling Impairment in Heart Failure Is Exacerbated by Fibrosis: Insights Gained From Mechanistic Simulations. *Frontiers in Physiology*. 9, 2018. ISSN 1664-042X. DOI: 10.3389/fphys.2018.01194
Type of production: Scientific paper **Format:** Journal
- 6 Andrés Mena Tobar; José María Ferrero De Loma-Orsorio; Francesco Migliavacca; José Félix Rodríguez Matas. Vulnerability in regionally ischemic human heart. Effect of the extracellular potassium concentration. *Journal of Computational Science*. 24, pp. i.p. - i.p.. 2018. ISSN 1877-7503. DOI: 10.1016/j.jocs.2017.11.009
Type of production: Scientific paper **Format:** Journal
- 7 MARÍA TERESA MORA FENOLL; José María Ferrero De Loma-Orsorio; Lucia Romero Pérez; Beatriz Ana Trenor Gomis. Sensitivity analysis revealing the effect of modulating ionic mechanisms on calcium dynamics in simulated human heart failure. *PLoS ONE*. 12, pp. 1 - 19. 2017. ISSN 1932-6203. DOI: 10.1371/journal.pone.0187739
Type of production: Scientific paper **Format:** Journal

- 8** Beatriz Carbonell Pascual; EDUARDO JORGE GODOY; ANA FERRER ALBERO; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio. Comparison between Hodgkin-Huxley and Markov formulations of cardiac ion channels. *Journal of Theoretical Biology*. 399, pp. 92 - 102. 2016. ISSN 0022-5193. DOI: 10.1016/j.jtbi.2016.03.039
Type of production: Scientific paper **Format:** Journal
- 9** Andrés Mena; José María Ferrero De Loma-Orsorio; José Félix Rodríguez Matas. GPU accelerated solver for nonlinear reaction-diffusion systems. Application to the electrophysiology problem. *Computer Physics Communications*. 196, pp. 280 - 289. 2015. ISSN 0010-4655. DOI: doi:10.1016/j.cpc.2015.06.018
Type of production: Scientific paper **Format:** Journal
- 10** ALEJANDRO DANIEL LÓPEZ PÉREZ; Rafael Sebastián Aguilar; José María Ferrero De Loma-Orsorio. Three-dimensional cardiac computational modelling: methods, features and applications. *BioMedical Engineering OnLine*. 14, pp. 1 - 31. 2015. ISSN 1475-925X. DOI: doi:10.1186/s12938-015-0033-5
Type of production: Scientific paper **Format:** Journal
- 11** Juan Francisco Gómez García; Karen Eliana Cardona Urrego; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. Electrophysiological and Structural Remodeling in Heart Failure Modulate Arrhythmogenesis. 1D Simulation Study. *PLoS ONE*. 9, pp. 1 - 14. 2014. ISSN 1932-6203
Type of production: Scientific paper **Format:** Journal
- 12** Esteban Ramirez; Francisco Javier Saiz Rodríguez; Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. In silico ischaemia-induced reentry at the Purkinje-ventricle interface. *EP Europace*. 16, pp. 444 - 451. 2014. ISSN 1099-5129. DOI: 10.1093/europace/eut386
Type of production: Scientific paper **Format:** Journal
- 13** José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; Lucia Romero Pérez. Multiscale computational analysis of the bioelectric consequences of myocardial ischaemia and infarction. *EP Europace*. 16, pp. 405 - 415. 2014. ISSN 1099-5129. DOI: doi:10.1093/europace/eut405
Type of production: Scientific paper **Format:** Journal
- 14** Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; C. Frank Starmer. Non-Uniform Dispersion of the Source-Sink Relationship Alters Wavefront Curvature. *PLoS ONE*. pp. 1 - 12. 2013. ISSN 1932-6203. DOI: 10.1371/journal.pone.0078328
Type of production: Scientific paper **Format:** Journal
- 15** José Félix Rodríguez Matas; Catalina Tobón Zuluaga; José María Ferrero De Loma-Orsorio; Fernando Hornero; Francisco Javier Saiz Rodríguez. Dominant frequency and organization index maps in a realistic three-dimensional computational model of atrial fibrillation. *EP Europace*. 14, pp. 25 - 32. 2012. ISSN 1099-5129. DOI: 10.1093/europace/eus268
Type of production: Scientific paper **Format:** Journal
- 16** Sridharan Rajamani; Francisco Javier Saiz Rodríguez; Luiz Belardinelli; Beatriz Ana Trenor Gomis; Karen Eliana Cardona Urrego; Juan Francisco Gómez García; José María Ferrero De Loma-Orsorio. Simulation and Mechanistic Investigation of the Arrhythmogenic Role of the Late Sodium Current in Human Heart Failure. *PLoS ONE*. 7, pp. 1 - 12. 2012. ISSN 1932-6203. DOI: 10.1371/journal.pone.0032659
Type of production: Scientific paper **Format:** Journal
- 17** László Virág; Norbert Jost; R Papp; István Koncz; Attila Kristóf; Zsófia Kohajda; G Harmati; JG Papp; PP Nánási; András Varró; Beatriz Carbonell Pascual; José María Ferrero De Loma-Orsorio. Analysis of the contribution of Ito to repolarization in canine ventricular myocardium. *British Journal of Pharmacology*. 162, pp. 1476 - 1481. 2011. ISSN 0007-1188. DOI: 10.1111/j.1476-5381.2011.01331.x
Type of production: Scientific paper **Format:** Journal

- 18** Francisco Javier Saiz Rodríguez; Julio Gomis-Tena Dolz; Marta María Monserrat Del Río; José María Ferrero De Loma-Orsorio; Karen Eliana Cardona Urrego; JAVIER CHORRO. Effects of the Antiarrhythmic Drug Dofetilide on Transmural Dispersion of Repolarization in Ventriculum. A Computer Modeling Study. IEEE Transactions on Biomedical Engineering. 58, pp. 43 - 53. 2011. ISSN 0018-9294. DOI: 10.1109/TBME.2010.2077292
Type of production: Scientific paper **Format:** Journal
- 19** Lydia Dux-Santoy Hurtado; Rafael Sebastián Aguilar; JOSÉ FÉLIX RODRÍGUEZ MATAS; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. Interaction of Specialized Cardiac Conduction System With Antiarrhythmic Drugs: A Simulation Study. IEEE Transactions on Biomedical Engineering. 58, pp. 3475 - 3478. 2011. ISSN 0018-9294. DOI: 10.1109/TBME.2011.2165213
Type of production: Scientific paper **Format:** Journal
- 20** Lucia Romero Pérez; Beatriz Carbonell Pascual; Beatriz Ana Trenor Gomis; Blanca Rodriguez; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. Systematic characterization of the ionic basis of rabbit cellular electrophysiology using two ventricular models. Progress in Biophysics and Molecular Biology. 107, pp. 60 - 73. 2011. ISSN 0079-6107. DOI: 10.1016/j.pbiomolbio.2011.06.012
Type of production: Scientific paper **Format:** Journal
- 21** ELVIO HEIDENREICH; José María Ferrero De Loma-Orsorio; MANUEL DOBLARÉ CASTELLANO; JOSÉ FÉLIX RODRÍGUEZ MATAS. Adaptive Macro Finite Elements for the Numerical Solution of Monodomain Equations in Cardiac Electrophysiology. Annals of Biomedical Engineering. 38, pp. 2331 - 2345. 2010. ISSN 0090-6964. DOI: 10.1007/s10439-010-9997-2
Type of production: Scientific paper **Format:** Journal
- 22** ELVIO HEIDENREICH; Francisco J Gaspar; José María Ferrero De Loma-Orsorio; José Félix Rodríguez Matas. Compact schemes for anisotropic reaction-diffusion equations with adaptive time step. International Journal for Numerical Methods in Engineering. 82, pp. 1022 - 1043. 2010. ISSN 0029-5981. DOI: 10.1002/nme.2801
Type of production: Scientific paper **Format:** Journal
- 23** Karen Eliana Cardona Urrego; Beatriz Ana Trenor Gomis; Germán Moltó Martínez; Miguel Andrés Martínez Iranzo; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. Exploring the role of pH in modulating the effects of lidocaine in virtual ischemic tissue. AJP Heart and Circulatory Physiology. 299, pp. 1615 - 1624. 2010. ISSN 0363-6135. DOI: 10.1152/ajpheart.00425.2
Type of production: Scientific paper **Format:** Journal
- 24** Rafael Sebastián; ELVIO HEIDENREICH; Lydia Dux-Santoy Hurtado; JOSÉ FÉLIX RODRÍGUEZ MATAS; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. Modelling drug effects on personalized 3D models of the heart: a simulation study. Lecture Notes in Computer Science. 6364, pp. 222 - 231. 2010. ISSN 0302-9743. DOI: 10.1007/978-3-642-15835-3_23
Type of production: Scientific paper **Format:** Journal
- 25** Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José Miguel Alonso Abalos; Catalina Tobón Zuluaga; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. The Relative Role of Refractoriness and Source-Sink Relationship in Reentry Generation during Simulated Acute Ischemia. Annals of Biomedical Engineering. 37, pp. 1560 - 1671. 2009. ISSN 0090-6964. DOI: 10.1007/s10439-009-9721-2
Type of production: Scientific paper **Format:** Journal
- 26** José Miguel Alonso Abalos; José María Ferrero De Loma-Orsorio; Vicente Hernández García; Germán Moltó Martínez; Francisco Javier Saiz Rodríguez; Beatriz Ana Trenor Gomis. A Grid Computing-based Approach for the Acceleration of Simulations in Cardiology. IEEE Transactions on Information Technology in Biomedicine. 12, pp. 138 - 144. 2008. ISSN 1089-7771. DOI: 10.1109/TITB.2007.907982
Type of production: Scientific paper **Format:** Journal



- 27** Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Gustavo Adolfo Puerto Leguizamón. Modelado y Simulación de la Actividad Eléctrica de Células Ventriculares. Revista Facultad de Ingeniería Universidad de Antioquia. pp. 80 - 89. 2008. ISSN 0120-6230
Type of production: Scientific paper **Format:** Journal
- 28** Beatriz Ana Trenor Gomis; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; José Miguel Alonso Abalos. Vulnerability to Reentry in a Regionally Ischemic Tissue: A Simulation Study. Annals of Biomedical Engineering. 35, pp. 1756 - 1770. 2007. ISSN 0090-6964
Type of production: Scientific paper **Format:** Journal
- 29** Luís David Avendaño Valencia; LUIS ENRIQUE AVENDAÑO; José María Ferrero De Loma-Orsorio; Germán Castellanos Domínguez. Reducción de interferencia de línea de potencia en señales electrocardiográficas mediante el filtro dual de Kalman. Ingeniería e Investigación. 27, pp. 77 - 88. 2007. ISSN 0120-5609
Type of production: Scientific paper **Format:** Journal
- 30** Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Fulgencio Montilla Meoro. Effects of pinacidil on reentrant arrhythmias generated during acute regional ischemia: a simulation study. Annals of Biomedical Engineering. 33, pp. 897 - 906. 2005. ISSN 0090-6964
Type of production: Scientific paper **Format:** Journal
- 31** José Miguel Alonso Abalos; José María Ferrero De Loma-Orsorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. Three-Dimensional Cardiac Electrical Activity Simulation on Cluster and Grid Platforms. Lecture Notes in Computer Science. 3402, pp. 219 - 232. 2005. ISSN 0302-9743
Type of production: Scientific paper **Format:** Journal
- 32** Blanca Rodríguez López; José María Ferrero De Loma-Orsorio. Effect of acute global ischemia on the upper limit of vulnerability: a simulation study. AJP Heart and Circulatory Physiology. 286, pp. 78 - 88. 2004. ISSN 0363-6135
Type of production: Scientific paper **Format:** Journal
- 33** José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; Blanca Rodríguez López; Francisco Javier Saiz Rodríguez. Electrical activity and reentry during acute regional myocardial ischemia: insights from simulations. International Journal of Bifurcation and Chaos. 13, pp. 3703 - 3715. 2003. ISSN 0218-1274
Type of production: Scientific paper **Format:** Journal
- 34** Blanca Rodríguez López; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. Mechanistic investigation of extracellular K⁺ accumulation during acute myocardial ischemia: a simulation study. AJP Heart and Circulatory Physiology. 283, pp. 490 - 500. 2002. ISSN 0363-6135
Type of production: Scientific paper **Format:** Journal
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City of event: Rimini, Italia,
Date of event: 16/09/2020
 Marta Gironés Sangüesa; claudia Esteban; Ana González Ascaso; José Félix Rodríguez Matas; José María Ferrero De Loma-Orsorio. "Computing in Cardiology 2020; Vol 47". pp. null - null. IEEE,
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Name of the conference: 47th Computing in Cardiology Conference (CinC 2020)
City of event: Rimini, Italia,
Date of event: 16/09/2020
 EDISON FERNANDO CARPIO GARAY; Juan Francisco Gómez García; José Félix Rodríguez Matas; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "Computing in Cardiology 2020; Vol 47". pp. 96 - null. IEEE,
- 3** **Title of the work:** Multiscale modeling of human heart failure to optimize treatments
Name of the conference: 2019 Cardiac Physiome Meeting
City of event: Maastricht, Netherlands,
Date of event: 06/12/2019
 EDISON FERNANDO CARPIO GARAY; MARÍA TERESA MORA FENOLL; Juan Francisco Gómez García; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. pp. null - null.
- 4** **Title of the work:** El bloqueo de la corriente de calcio tipo-L dificulta la génesis y estabilidad de reentradas en tejidos formados por cardiomiocitos adultos y derivados de iPSC
Name of the conference: XXXVII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2019)
City of event: Santander, España,
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- 5** **Title of the work:** Understanding Ventricular Tachyarrhythmias related to Acute Myocardial Ischemia: a Computational Modeling Approach
Name of the conference: VIII Congreso Latinoamericano de Ingeniería Biomédica (CLAIB 2019)
City of event: Cancún, México,
Date of event: 05/10/2019
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- 6** **Title of the work:** Blocking L-Type Calcium Current Reduces Vulnerability to Re-Entry in Human iPSC-Derived Cardiomyocytes Tissue
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City of event: Singapore,
Date of event: 11/09/2019
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- 7** **Title of the work:** Why Does Extracellular Potassium Rise in Acute Ischemia? Insights from Computational Simulations
Name of the conference: 46th Computing in Cardiology Conference (CinC 2019)
City of event: Singapore,
Date of event: 11/09/2019
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- 8** **Title of the work:** Optimization of Cardiac Resynchronization Therapy in 3D Electrophysiological Ventricular Models
Name of the conference: Workshop on Cardiac Modeling. Towards an integrated numerical heart model
City of event: Bad Herrenalb, Germany,
Date of event: 17/04/2019
EDISON FERNANDO CARPIO GARAY; Juan Francisco Gómez García; Rafael Sebastian; ALEJANDRO DANIEL LÓPEZ PÉREZ; Eduardo Castellanos; Jesus Almendral; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. pp. 11 - 12.
- 9** **Title of the work:** Isoform-specific beta-adrenergic receptor stimulation modulates action potentials and intracellular Ca²⁺ in healthy and failing human ventricular myocytes
Name of the conference: 2019 Gordon Research Conference (GRC) on Cardiac Arrhythmia Mechanisms
City of event: Lucca, Italy,
Date of event: 05/04/2019
MARÍA TERESA MORA FENOLL; Jingqi Gong; Igor Efimov; José María Ferrero De Loma-Orsorio; Eric A Sobie; Beatriz Ana Trenor Gomis. pp. 0 - 0.
- 10** **Title of the work:** Modulation of action potentials and intracellular [Ca²⁺] by isoform specific beta-adrenergic receptor stimulation in human ventricular myocytes
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- 35 Title of the work:** Estudio de Simulación de los Mecanismos Electrofisiológicos del Fenotipo de Insuficiencia Cardíaca
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City of event: Cáceres (Spain),
Date of event: 18/11/2011



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Date of event: 11/07/2011
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. pp. 3 - 3.
- 38** **Title of the work:** Understanding Human Heart Failure Remodeling through Computer Simulations
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Date of event: 01/11/2010
Lydia Dux-Santoy Hurtado; Rafael Sebastián Aguilar; ELVIO HEIDENREICH; JOSÉ FÉLIX RODRÍGUEZ MATAS; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; Francisco Javier Saiz Rodríguez. "Libro de Actas". pp. 182 - 182. Universidad Carlos III madrid, ISSN 978-84-8058-1
- 42** **Title of the work:** Papel de la Corriente Transitoria de Salida de Potasio en la Repolarización del Potencial de Acción. Estudio de Simulación.
Name of the conference: XXVIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (2010)



City of event: Madrid,

Date of event: 01/11/2010

László Virág; Norbert Jost; András Varró; Beatriz Carbonell Pascual; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "Libro de Actas". pp. 1 - 9. Universidad CARlos III madrid, ISSN 978-84-8058-1

43 Title of the work: A biophysical model of atrial fibrillation to simulate the Maze III ablation pattern.

Name of the conference: XXXVII Computing in Cardiology (2010)

City of event: Belfast, Ireland,

Date of event: 26/09/2010

Catalina Tobón Zuluaga; C RUIZ; JOSÉ FÉLIX RODRÍGUEZ MATAS; Fernando Hornero; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedings Computers in Cardiology 2010". pp. 621 - 624. IEEE, ISSN 0276-6574

44 Title of the work: Gender and age based differences in risk of proarrhythmia by dofetilide. A computational model study

Name of the conference: XXXVII Computing in Cardiology (2010)

City of event: Belfast, Ireland,

Date of event: 26/09/2010

Julio Gomis-Tena Dolz; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedings Computers in Cardiology 2010". pp. 641 - 644. IEEE, ISSN 0276-6574

45 Title of the work: Role of the Late Sodium Current in Arrhythmias related to Low Repolarization Reserve

Name of the conference: XXXVII Computing in Cardiology (2010)

City of event: Belfast, Ireland,

Date of event: 26/09/2010

Karen Eliana Cardona Urrego; Beatriz Ana Trenor Gomis; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedings Computers in Cardiology 2010". pp. 617 - 620. IEEE, ISSN 0276-6574

46 Title of the work: The Role of the Transient Outward Current in Action Potential Repolarization: a Simulation Study

Name of the conference: XXXVII Computing in Cardiology (2010)

City of event: Belfast, Ireland,

Date of event: 26/09/2010

László Virág; Norbert Jost; András Varró; Beatriz Carbonell Pascual; José María Ferrero De Loma-Orsorio. "Proceedings Computers in Cardiology 2010". pp. 657 - 661. IEEE, ISSN 0276-6574

47 Title of the work: Effects of Late Sodium Current Enhancement During LQT-related

Name of the conference: 32nd ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY

City of event: Buenos Aires (Argentina),

Date of event: 04/09/2010

Karen Eliana Cardona Urrego; Beatriz Ana Trenor Gomis; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedings". pp. 3237 - 3240. IEEE Press, ISSN 978-1-4244-4124-2

48 Title of the work: Human and Rabbit Inter-species Comparison of Ionic Mechanisms of Arrhythmic Risk: A Simulation Study

Name of the conference: 32nd ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY

City of event: Buenos Aires (Argentina),

Date of event: 04/09/2010



Lucia Romero Pérez; Beatriz Carbonell Pascual; Beatriz Ana Trenor Gomis; Blanca Rodríguez López; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. "Proceedings". pp. 3253 - 3256. IEEE Press, ISSN 978-1-4244-4124-2

- 49** **Title of the work:** Sex and age related differences in drug induced QT prolongation by dofetilide under reduced repolarization reserve in sumalated ventricular cells.
Name of the conference: 32nd ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY
City of event: Buenos Aires (Argentina),
Date of event: 04/09/2010
Julio Gomis-Tena Dolz; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedings". pp. 3245 - 3248. IEEE Press, ISSN 978-1-4244-4124-2
- 50** **Title of the work:** Vulnerability for reentry in a three dimensional model of human atria: a simulation study.
Name of the conference: 32nd ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY
City of event: Buenos Aires (Argentina),
Date of event: 04/09/2010
Catalina Tobón Zuluaga; C RUIZ; JOSÉ FÉLIX RODRÍGUEZ MATAS; Fernando Hornero; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedings". pp. 224 - 227. IEEE Press, ISSN 978-1-4244-4124-2
- 51** **Title of the work:** Ionic basis of arrhythmic risk biomarkers on rabbit hearts: a simulation study
Name of the conference: Joint SIAM/RSME-SCM-SEMA Meeting: Emerging Topics in Dynamical Systems and Partial Differential Equations (DSPDEs'10)
City of event: Barcelona, España,
Date of event: 04/06/2010
Lucia Romero Pérez; Beatriz Carbonell Pascual; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "Libro de Actas". pp. 61 - 61. SIAM / RSME-SCM-SEMA,
- 52** **Title of the work:** Anatomical realistic 3D model of human atria. Application to the study of vulnerability to atrial arrhythmias.
Name of the conference: Heart Rhythm 2010 31st Annual Scientific Sessions
City of event: Denver, Colorado, USA,
Date of event: 12/05/2010
Catalina Tobón Zuluaga; C RUIZ; JOSÉ FÉLIX RODRÍGUEZ MATAS; Fernando Hornero; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Heart Rhythm (Supplement)". pp. 289 - 290. Elsevier, ISSN 1547-5271
- 53** **Title of the work:** Important Role Of Transient Outward Current in Cardiac Repolarization
Name of the conference: Heart Rhythm 2010 31st Annual Scientific Sessions
City of event: Denver, Colorado, USA,
Date of event: 12/05/2010
András Varró; Norbert Jost; Attila Kristóf; István Koncz; R Papp; Zsofia Kohajda; Beatriz Carbonell Pascual; José María Ferrero De Loma-Orsorio; JG Papp; László Virág. "Heart Rhythm (Supplement)". pp. 80 - 80. Elsevier, ISSN 1547-5271
- 54** **Title of the work:** Inter-species Comparison Of Ionic Mechanisms Of Arrhythmic Risk In Rabbit And Human
Name of the conference: Heart Rhythm 2010 31st Annual Scientific Sessions
City of event: Denver, Colorado, USA,
Date of event: 12/05/2010



Lucia Romero Pérez; Beatriz Carbonell Pascual; Beatriz Ana Trenor Gomis; Blanca Rodríguez López; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. "Heart Rhythm (Supplement)". pp. 413 - 413. Elsevier, ISSN 1547-5271

55 Title of the work: Adaptation of an Action Potential Minimal Model to Acute Ischemia.

Name of the conference: XXXVI Computers in Cardiology Conference (CinC)

City of event: Park city, Estados Unidos,

Date of event: 13/09/2009

José María Ferrero De Loma-Orsorio. "Proceedins Computers in Cardiology 2009". pp. 121 - 125. IEEE, ISSN 0276-6574

56 Title of the work: Combined Effects of Acquired LQT Syndrome by Dofetilide and Reduced Repolarization Reserve on Human Ventricular Action Potential: A Simulation Study

Name of the conference: XXXVI Computers in Cardiology Conference (CinC)

City of event: Park city, Estados Unidos,

Date of event: 13/09/2009

Lucia Romero Pérez; Julio Gomis-Tena Dolz; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Proceedins Computers in Cardiology 2009". pp. 445 - 448. IEEE, ISSN 0276-6574

57 Title of the work: ECTOPIC ACTIVITY GENERATED BY EARLY AFTERDEPOLARIZATIONS IN VENTRICULAR TISSUE. A COMPUTER SIMULATION STUDY

Name of the conference: XXXVI Computers in Cardiology Conference (CinC)

City of event: Park city, Estados Unidos,

Date of event: 13/09/2009

Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero De Loma-Orsorio; José María Ferrero Corral; NITISH V. THAKOR. "Proceedins Computers in Cardiology 2009". pp. 208 - 211. IEEE, ISSN 0276-6574

58 Title of the work: Electrical Propagation Patterns in a 3D Regionally Ischemic Human Heart: A Simulation Study

Name of the conference: XXXVI Computers in Cardiology Conference (CinC)

City of event: Park city, Estados Unidos,

Date of event: 13/09/2009

José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. "Proceedins Computers in Cardiology 2009". pp. 665 - 668. IEEE, ISSN 0276-6574

59 Title of the work: Influence of Atrial Dilatation in the Generation of Re-Entries Caused by Ectopic Activity in the Left Atrium

Name of the conference: XXXVI Computers in Cardiology Conference (CinC)

City of event: Park city, Estados Unidos,

Date of event: 13/09/2009

C RUIZ; Catalina Tobón Zuluaga; JOSÉ FÉLIX RODRÍGUEZ MATAS; José María Ferrero De Loma-Orsorio; Fernando Hornero; Francisco Javier Saiz Rodríguez. "Proceedins Computers in Cardiology 2009". pp. 457 - 460. IEEE, ISSN 0276-6574

60 Title of the work: Ionic Basis of Arrhythmic Risk Biomarkers on Simulated Rabbit Ventricular Myocytes

Name of the conference: XXXVI Computers in Cardiology Conference (CinC)

City of event: Park city, Estados Unidos,

Date of event: 13/09/2009

Lucia Romero Pérez; Beatriz Carbonell Pascual; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "Proceedins Computers in Cardiology 2009". pp. 433 - 436. IEEE, ISSN 0276-6574



- 61 Title of the work:** Potentiation of Dofetilide LQT-Related Effects by Late Sodium Current Activators. A Simulation Study.
Name of the conference: XXXVI Computers in Cardiology Conference (CinC)
City of event: Park city, Estados Unidos,
Date of event: 13/09/2009
Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; Lucia Romero Pérez; Beatriz Carbonell Pascual; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis. "Proceedins Computers in Cardiology 2009". pp. 441 - 444. IEEE, ISSN 0276-6574
- 62 Title of the work:** Role of the ATP-sensitive K⁺ current in the development of reentry in a ring model of cardiac tissue. A computer simulation study.
Name of the conference: XXXVI Computers in Cardiology Conference (CinC)
City of event: Park city, Estados Unidos,
Date of event: 13/09/2009
José María Ferrero De Loma-Orsorio; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Proceedins Computers in Cardiology 2009". pp. 511 - 514. IEEE, ISSN 0276-6574
- 63 Title of the work:** SIMULATIONS OF TRIGGERED ACTIVITY AND ABNORMAL AUTOMATICITY IN VENTRICULAR MYOCYTES
Name of the conference: XXXVI Computers in Cardiology Conference (CinC)
City of event: Park city, Estados Unidos,
Date of event: 13/09/2009
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; José María Ferrero Corral; LAURA M. ROA ROMERO; NITISH V. THAKOR. "Proceedins Computers in Cardiology 2009". pp. 345 - 348. IEEE, ISSN 0276-6574
- 64 Title of the work:** Effect of Lidocaine in Acute Ischemic Situations: A Computer Modelling Study
Name of the conference: XXXV Computers in Cardiology Conference (CinC)
City of event: Bolonia, Italia,
Date of event: 18/12/2008
Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Germán Moltó Martínez; Vicente Hernández García. "Proceedings of Computers in Cardiology". pp. 1017 - 1020. IEEE, ISSN 0276-6574
- 65 Title of the work:** Post-Repolarization Refractoriness in Human Ventricular Cardiac Cells
Name of the conference: XXXV Computers in Cardiology Conference (CinC)
City of event: Bolonia, Italia,
Date of event: 18/12/2008
JOSÉ FÉLIX RODRÍGUEZ MATAS; E HEIDENREICH; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; MANUEL DOBLARÉ CASTELLANO. "Proceedings of Computers in Cardiology". pp. 581 - 584. IEEE, ISSN 0276-6574
- 66 Title of the work:** Reentrant Activity in a Virtual 3D Ventricular Slab Preparation Subject to Regional Simulated Ischemia: Role in the Ischemic Zone Size
Name of the conference: XXXV Computers in Cardiology Conference (CinC)
City of event: Bolonia, Italia,
Date of event: 18/12/2008
Lucia Romero Pérez; E HEIDENREICH; JOSÉ FÉLIX RODRÍGUEZ MATAS; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; MANUEL DOBLARÉ CASTELLANO. "Proceedings of Computers in Cardiology". pp. 1025 - 1028. IEEE, ISSN 0276-6574



- 67** **Title of the work:** Safety in Purkinje to Ventricular Conduction and Ventricular Activity under Simulated 1D Ischemia
Name of the conference: XXXV Computers in Cardiology Conference (CinC)
City of event: Bolonia, Italia,
Date of event: 18/12/2008
Beatriz Ana Trenor Gomis; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Germán Moltó Martínez; Vicente Hernández García. "Proceedings of Computers in Cardiology". pp. 1013 - 1016. IEEE, ISSN 0276-6574
- 68** **Title of the work:** Efecto de la Lidocaína sobre la Restitución Eléctrica y la Vulnerabilidad
Name of the conference: XXVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2008)
City of event: Valladolid, España,
Date of event: 15/10/2008
Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Germán Moltó Martínez; Vicente Hernández García. "Actas CASEIB 2008". pp. 190 - 193. Universidad de Valladolid, ISSN 978-84-691-3641-6
- 69** **Title of the work:** Is Dispersion of Refractoriness the Key to Reentry Vulnerability in Myocardial Ischemia? Insights From Simulations.
Name of the conference: 12th Word Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2008)
City of event: Orlando (Florida,USA),
Date of event: 29/06/2008
José María Ferrero De Loma-Orsorio; Lucia Romero Pérez; Beatriz Ana Trenor Gomis; Francisco Javier Saiz Rodríguez; José Miguel Alonso Abalos; Germán Moltó Martínez. "Actas y CD con ISBN". pp. 0 - 0. WMSCI, ISSN 9781934272312
- 70** **Title of the work:** Análisis de la actividad reentrante en un tejido virtual mediante el factor de seguridad: papel de la refractariedad
Name of the conference: XXV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2007)
City of event: Cartagena, España,
Date of event: 14/11/2007
Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; José Miguel Alonso Abalos. "Actas CASEIB 2007". pp. 1 - 9. U.P. Cartagena, ISSN 84-612-0370-3
- 71** **Title of the work:** Efecto de la Variación del pH sobre la Acción de la Lidocaína en Tejidos Ventriculares
Name of the conference: XXV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2007)
City of event: Cartagena, España,
Date of event: 14/11/2007
Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Miguel Andrés Martínez Iranzo; Germán Moltó Martínez; Vicente Hernández García. "Actas CASEIB 2007". pp. 1 - 9. U.P. Cartagena, ISSN 84-612-0370-3
- 72** **Title of the work:** Vulnerabilidad a la reentrada de un tejido tridimensional virtual durante isquemia regional aguda
Name of the conference: XXV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2007)
City of event: Cartagena, España,
Date of event: 14/11/2007



ELVIO HEIDENREICH; Lucia Romero Pérez; JOSÉ FÉLIX RODRÍGUEZ MATAS; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; MANUEL DOBLARÉ CASTELLANO. "Actas CASEIB 2007". pp. 1 - 9. U.P. Cartagena, ISSN 84-612-0370-3

73 Title of the work: Dispersion of refractoriness in a simulated ischemic 2D tissue: implications in vulnerability to reentry

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,

Date of event: 03/10/2007

Beatriz Ana Trenor Gomis; Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; Vicente Hernández García. "Computers in Cardiology Vol.34". pp. 1 - 9. IEEE Press, ISSN 978-1-4244-2533-4

74 Title of the work: Effect of Ectopic Focus Frequency on Fibrillatory Conduction in Atrial Remodelling Tissue. A Simulation Study

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,

Date of event: 03/10/2007

Catalina Tobón Zuluaga; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Germán Moltó Martínez; José Miguel Alonso Abalos. "Computers in Cardiology Vol.34". pp. 1 - 9. IEEE Press, ISSN 978-1-4244-2533-4

75 Title of the work: Improvement of an extended Kalman filter power line interference suppressor for ECG signals

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,

Date of event: 03/10/2007

Luís David Avendaño Valencia; LUIS ENRIQUE AVENDAÑO; José María Ferrero De Loma-Orsorio; Germán Castellanos Domínguez. "Computers in Cardiology Vol.34". pp. 553 - 556. IEEE Press, ISSN 978-1-4244-2533-4

76 Title of the work: Influence of 1B ischemic ventricular tissue on the automaticity of purkinje fibers: a simulation study

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,

Date of event: 03/10/2007

Francisco Javier Saiz Rodríguez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Germán Moltó Martínez; Vicente Hernández García. "Computers in Cardiology Vol.34". pp. 1 - 9. IEEE Press, ISSN 978-1-4244-2533-4

77 Title of the work: The pH Dependence on the Electrophysiological Effect of Lidocaine in Ventricular Myocardium. A Computer Modelling Study

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,

Date of event: 03/10/2007

Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Miguel Andrés Martínez Iranzo; Germán Moltó Martínez; Vicente Hernández García. "Computers in Cardiology Vol.34". pp. 1 - 9. IEEE Press, ISSN 978-1-4244-2533-4

78 Title of the work: The Safety Factor Approach in the Analysis of Reentrant Patterns of Activation in the Ischemic Virtual Heart

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,



Date of event: 03/10/2007

Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; José Miguel Alonso Abalos. "Computers in Cardiology Vol.34". pp. 1 - 9. IEEE Press, ISSN 978-1-4244-2533-4

- 79 Title of the work:** Vulnerability to Reentry in a 3D Regionally Ischemic Ventricular Slab Preparation: a Simulation Study

Name of the conference: XXXIV Computers in Cardiology Conference (CinC 2007)

City of event: Durham, USA,

Date of event: 03/10/2007

ELVIO HEIDENREICH; Lucia Romero Pérez; JOSÉ FÉLIX RODRÍGUEZ MATAS; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; MANUEL DOBLARÉ CASTELLANO. "Computers in Cardiology Vol.34". pp. 1 - 9. IEEE Press, ISSN 978-1-4244-2533-4

- 80 Title of the work:** QRS complex detection algorithms: Optimization and performance evaluation

Name of the conference: 23rd ISPE/IEE International Conference On CAD/CAM, Robotics, & Factories Of The Future (CARs&FOF 2007)

City of event: Bogotá, Colombia,

Date of event: 18/08/2007

LUIS ENRIQUE AVENDAÑO; A.F. QUICENO MANRIQUE; Germán Castellanos Domínguez; José María Ferrero De Loma-Orsorio. "Proceedings". pp. 0 - 0. Militar Nueva Granada University,

- 81 Title of the work:** A WSRF-based Computational Gateway to the EGEE infrastructure for the Simulation of Cardiac Electrical Activity (Contribution ID 62)

Name of the conference: 2nd Enabling Grids for E-Science (EGEE) User Forum

City of event: Manchester, Reino Unido,

Date of event: 09/05/2007

José Miguel Alonso Abalos; José María Ferrero De Loma-Orsorio; Vicente Hernández García; Germán Moltó Martínez; Francisco Javier Saiz Rodríguez. "EGEE User Forum Book of Abstracts". pp. 62 - 62. CERN,

- 82 Title of the work:** Efecto de la Lidocaína sobre la Refractoriedad y la Vulnerabilidad a Reentradas

Name of the conference: XXIV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2006)

City of event: Pamplona, España,

Date of event: 08/11/2006

Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Miguel Andrés Martínez Iranzo; Germán Moltó Martínez; Vicente Hernández García. "Libro de Actas". pp. 201 - 204. Sociedad Española de Ingeniería Biomédica, ISSN 84-9769-160-1

- 83 Title of the work:** Estimation and denoising of ECG Signals using unscented Kalman filtering

Name of the conference: XXIV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2006)

City of event: Pamplona, España,

Date of event: 08/11/2006

LUIS ENRIQUE AVENDAÑO; A.F. QUICENO MANRIQUE; Luís David Avendaño Valencia; Germán Castellanos Domínguez; José María Ferrero De Loma-Orsorio. "Libro de Actas". pp. 587 - 590. Sociedad Española de Ingeniería Biomédica, ISSN 84-9769-160-1

- 84 Title of the work:** Estudio de la propagación y bloqueo en un tejido cardíaco virtual mediante el factor de seguridad

Name of the conference: XXIV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2006)

City of event: Pamplona, España,

Date of event: 08/11/2006

Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; José Miguel Alonso Abalos. "Libro de Actas". pp. 1 - 9. Sociedad Española de Ingeniería Biomédica, ISSN 84-9769-160-1

- 85 Title of the work:** Influencia de hiperkalemia y acidosis en la formación de rotores en pared transmural ventricular: una simulación teórica

Name of the conference: XXIV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2006)

City of event: Pamplona, España,

Date of event: 08/11/2006

Karen Eliana Cardona Urrego; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; OSCAR ALBERTO HENAO. "Libro de Actas". pp. 1 - 9. Sociedad Española de Ingeniería Biomédica, ISSN 84-9769-160-1

- 86 Title of the work:** Remoción de interferencia AC en ECG usando denoising y la medida Weighted Diagnostic Distortion

Name of the conference: XXIV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2006)

City of event: Pamplona, España,

Date of event: 08/11/2006

José Luís Rodríguez Sotelo; LUIS ENRIQUE AVENDAÑO; Germán Castellanos Domínguez; José María Ferrero De Loma-Orsorio. "Libro de Actas". pp. 0 - 0. Sociedad Española de Ingeniería Biomédica, ISSN 84-9769-160-1

- 87 Title of the work:** A New System for Integral Community Cardiac Rehabilitation Based on Technological Platforms for the Lifestyle Change Supporting System

Name of the conference: XXXIII Computers in Cardiology Conference (CinC)

City of event: Valencia, España,

Date of event: 20/09/2006

Jaime Guixeres Provinciale; Francisco Javier Saiz Rodríguez; Rafael Rodríguez de Sanabria Gil; Julio Gomis-Tena Dolz; José María Ferrero De Loma-Orsorio. "Computers in Cardiology Vol. 33". pp. 845 - 848. IEEE Press, ISSN 0276-6547

- 88 Title of the work:** Effect of Lidocaine on Reentrant Ventricular Circuits in Acute Ischemic Situations. A Computer Modelling Study

Name of the conference: XXXIII Computers in Cardiology Conference (CinC)

City of event: Valencia, España,

Date of event: 20/09/2006

Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Miguel Andrés Martínez Iranzo; Germán Moltó Martínez; Vicente Hernández García. "Computers in Cardiology Vol. 33". pp. 209 - 212. IEEE Press, ISSN 0276-6547

- 89 Title of the work:** Effect of Regional Ischemia in Arrhythmia Vulnerability for Heterogeneous Transmural Cardiac Wall: A Simulation Study

Name of the conference: XXXIII Computers in Cardiology Conference (CinC)

City of event: Valencia, España,

Date of event: 20/09/2006

OSCAR HENAO; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Lucia Romero Pérez; Germán Moltó Martínez; Vicente Hernández García. "Computers in Cardiology Vol. 33". pp. 777 - 780. IEEE Press, ISSN 0276-6547



- 90** **Title of the work:** Safety Factor in Simulated 2D Cardiac Tissue. Influence of Altered Membrane Excitability
Name of the conference: XXXIII Computers in Cardiology Conference (CinC)
City of event: Valencia, España,
Date of event: 20/09/2006
Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Germán Moltó Martínez; José Miguel Alonso Abalos. "Computers in Cardiology Vol. 33". pp. 217 - 220. IEEE Press, ISSN ISSN 0276-6547
- 91** **Title of the work:** Spectrum estimation and adaptive denoising of electrocardiographic signals using Kalman filters
Name of the conference: XXXIII Computers in Cardiology Conference (CinC)
City of event: Valencia, España,
Date of event: 20/09/2006
LUIS ENRIQUE AVENDAÑO; Germán Castellanos Domínguez; José María Ferrero De Loma-Orsorio. "Computers in Cardiology Vol. 33". pp. 925 - 928. IEEE Press, ISSN ISSN 0276-6547
- 92** **Title of the work:** The ECG T-Wave Duration as an Index of Dispersion of Ventricular Repolarization: Insights from Simulations
Name of the conference: XXXIII Computers in Cardiology Conference (CinC)
City of event: Valencia, España,
Date of event: 20/09/2006
Ana Ibáñez; José María Ferrero De Loma-Orsorio. "Computers in Cardiology Vol. 33". pp. 793 - 796. IEEE Press, ISSN ISSN 0276-6547
- 93** **Title of the work:** Modelling and Simulation of Bioelectric Systems. Application to the Study of Cardiac Electrical Activity
Name of the conference: International Medical Informatics and Biomedical Engineering. The First Jordanian European Symposium (IMIBE'06)
City of event: Aman, Jordania,
Date of event: 20/03/2006
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Lucia Romero Pérez; Beatriz Ana Trenor Gomis; Julio Gomis-Tena Dolz. "Proceedings". pp. 193 - 196. Yarmouk University,
- 94** **Title of the work:** A simulation study of the safety factor of propagation in metabolic inhibition
Name of the conference: 3rd European Conference of the International Federation for Medical and Biological Engineering (EMBEC' 05)
City of event: Praga, República Checa,
Date of event: 20/11/2005
Lucia Romero Pérez; José María Ferrero De Loma-Orsorio. "IFMBE Proceedings Vol.11, 2005". pp. 1 - 9. EMBEC05 & IFMBE, ISSN 1727-1983
- 95** **Title of the work:** Comparación de métodos para la eliminación de interferencia AC en ECG
Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2005)
City of event: Madrid, España,
Date of event: 10/11/2005
LUIS ENRIQUE AVENDAÑO; José Luis Rodríguez Sotelo; Germán Castellanos Domínguez; José María Ferrero De Loma-Orsorio. "Libro de Actas". pp. 0 - 0. Fund. Rogelio Segovia, ISSN 84-7402-325-4
- 96** **Title of the work:** Efecto de la Isquemia aguda y de sus componentes sobre el factor de seguridad
Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2005)



City of event: Madrid, España,

Date of event: 10/11/2005

Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "Libro de Actas". pp. 91 - 93. Fund. Rogelio Segovia, ISSN 84-7402-325-4

- 97 Title of the work:** Influencia del Acoplamiento Intercelular sobre la Acción de la Lidocaína en Tejido Ventricular

Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2005)

City of event: Madrid, España,

Date of event: 10/11/2005

Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; Lucia Romero Pérez; José Miguel Alonso Abalos. "Libro de Actas". pp. 103 - 105. Fund. Rogelio Segovia, ISSN 84-7402-325-4

- 98 Title of the work:** Reflexión inducida por postdespolarizaciones tempranas de fase 2 en tejido ventricular

Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2005)

City of event: Madrid, España,

Date of event: 10/11/2005

Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; V. HERNANDEZ; J. RAMIREZ. "Libro de Actas". pp. 95 - 98. Fund. Rogelio Segovia, ISSN 84-7402-325-4

- 99 Title of the work:** Simulación de la Propagación del Potencial de Acción en Tejido Auricular Humano

Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2005)

City of event: Madrid, España,

Date of event: 10/11/2005

Germán Moltó Martínez; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Julio Gomis-Tena Dolz; Catalina Tobón Zuluaga. "Libro de Actas". pp. 393 - 396. Fund. Rogelio Segovia, ISSN 84-7402-325-4

- 100 Title of the work:** A computer model of reflection induced by early afterdepolarizations in ventricular tissue

Name of the conference: XXXII Computers in Cardiology Conference (CinC)

City of event: Lyon, Francia,

Date of event: 25/09/2005

J. RAMIREZ; Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero De Loma-Orsorio; Julio Gomis-Tena Dolz; V. HERNANDEZ. "Computers in Cardiology Vol.32". pp. 889 - 892. IEEE Press, ISSN 0276-6574

- 101 Title of the work:** A sensitivity study of the safety factor for conduction in the myocardium

Name of the conference: XXXII Computers in Cardiology Conference (CinC)

City of event: Lyon, Francia,

Date of event: 25/09/2005

Lucia Romero Pérez; Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Computers in Cardiology Vol.32". pp. 873 - 876. IEEE Press, ISSN 0276-6574

- 102 Title of the work:** Effects of acute ischemia and its components on the safety factor of conduction: a simulation study

Name of the conference: XXXII Computers in Cardiology Conference (CinC)

City of event: Lyon, Francia,

Date of event: 25/09/2005



Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; Francisco Javier Saiz Rodríguez. "Computers in Cardiology Vol.32". pp. 877 - 879. IEEE Press, ISSN 0276-6574

- 103 Title of the work:** Effects of Antiarrhythmic Drug Lidocaine on Ventricular
Name of the conference: XXXII Computers in Cardiology Conference (CinC)
City of event: Lyon, Francia,
Date of event: 25/09/2005
Karen Eliana Cardona Urrego; Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero De Loma-Orsorio; Germán Moltó Martínez. "Computers in Cardiology Vol.32". pp. 893 - 896. IEEE Press, ISSN 0276-6574
- 104 Title of the work:** Modulation of Regional Dispersion of Repolarization by the Action of the Class III Antiarrhythmic Drug Dofetilide
Name of the conference: XXXII Computers in Cardiology Conference (CinC)
City of event: Lyon, Francia,
Date of event: 25/09/2005
Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero De Loma-Orsorio; Julio Gomis-Tena Dolz; Karen Eliana Cardona Urrego; F.JAVIER CHORRO GASCÓ; José Miguel Alonso Abalos. "Computers in Cardiology Vol.32". pp. 885 - 888. IEEE Press, ISSN 0276-6574
- 105 Title of the work:** Efecto de la isquemia aguda sobre las curvas de restitución del tejido ventricular
Name of the conference: XXII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2004)
City of event: Santiago de Compostela, España,
Date of event: 13/11/2004
Lucia Romero Pérez; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Beatriz Ana Trenor Gomis; Marta María Monserrat Del Río; José Miguel Alonso Abalos; Germán Moltó Martínez; Fulgencio Montilla Meoro. "Libro de actas". pp. 261 - 264. Comité Organizador del CASEIB' 04, ISSN 84-688-9318-8
- 106 Title of the work:** Efecto de la Lidocaina Sobre la Actividad Eléctrica en Tejido Miocárdico Ventricular
Name of the conference: XXII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2004)
City of event: Santiago de Compostela, España,
Date of event: 13/11/2004
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; Julio Gomis-Tena Dolz; José Miguel Alonso Abalos; Vicente Hernández García. "Libro de actas". pp. 287 - 289. Comité Organizador del CASEIB' 04, ISSN 84-688-9318-8
- 107 Title of the work:** Empleo de Técnicas Computacionales Avanzadas para la Aceleración de las Simulaciones Cardíacas
Name of the conference: XXII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2004)
City of event: Santiago de Compostela, España,
Date of event: 13/11/2004
José Miguel Alonso Abalos; José María Ferrero De Loma-Orsorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. "Libro de actas". pp. 267 - 270. Comité Organizador del CASEIB' 04, ISSN 84-688-9318-8
- 108 Title of the work:** Effects of Acute Ischemia on the Restitution Curves of Myocardial Tissue: A Simulation Study
Name of the conference: XXXI Computers in Cardiology Conference (CinC)
City of event: Chicago, Estados Unidos,



Date of event: 19/09/2004

Lucia Romero Pérez; José María Ferrero De Loma-Osorio; Francisco Javier Saiz Rodríguez; Beatriz Ana Trenor Gomis; Marta María Monserrat Del Río; Fulgencio Montilla Meoro; José Miguel Alonso Abalos; Germán Moltó Martínez. "Computers in Cardiology vol.31". pp. 525 - 528. IEEE Press, ISSN 0276-6547

- 109 Title of the work:** Effects of Pinacidil on Refractoriness in Acutely Ischemic Tissue: Insights from Experiments and Simulations.

Name of the conference: XXXI Computers in Cardiology Conference (CinC)

City of event: Chicago, Estados Unidos,

Date of event: 19/09/2004

Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Osorio; Francisco Javier Saiz Rodríguez; ANGEL FERRERO DE LOMA-OSORIO; F.JAVIER CHORRO GASCÓ; Marta María Monserrat Del Río; Vicente Hernández García; Germán Moltó Martínez. "Computers in Cardiology vol.31". pp. 529 - 532. IEEE Press, ISSN 0276-6547

- 110 Title of the work:** Effects of the Antiarrhythmic Drug Dofetilide on Regional Heterogeneity on Action Potential Duration: A Computer Modelling Study

Name of the conference: XXXI Computers in Cardiology Conference (CinC)

City of event: Chicago, Estados Unidos,

Date of event: 19/09/2004

Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero De Loma-Osorio; Julio Gomis-Tena Dolz; Karen Eliana Cardona Urrego; F.JAVIER CHORRO GASCÓ; Vicente Hernández García; José Miguel Alonso Abalos. "Computers in Cardiology vol.31". pp. 285 - 288. IEEE Press, ISSN 0276-6547

- 111 Title of the work:** Computación de Altas Prestaciones sobre Entornos Grid en la Simulación Eléctrica de Tejidos Cardíacos

Name of the conference: XV Jornadas de Paralelismo

City of event: Almeria, España,

Date of event: 17/09/2004

José Miguel Alonso Abalos; José María Ferrero De Loma-Osorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. "Actas de las XV Jornadas de Paralelismo". pp. 271 - 276. Servicio Publicaciones Universidad de Almeria, ISSN 84-8240-714-7

- 112 Title of the work:** Three-Dimensional Cardiac Electrical Activity Simulation on Cluster and Grid Platforms

Name of the conference: 6th International meeting on High Performance Computing for Computational Science (VECPAR 2004)

City of event: Valencia, España,

Date of event: 30/06/2004

José Miguel Alonso Abalos; José María Ferrero De Loma-Osorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. "Proceedings of VECPar' 04". pp. 485 - 498. UPV,

- 113 Title of the work:** Effects of the Antiarrhythmic Drug Dofetilide on Myocardial Electrical Activity: A Computer Modelling Study

Name of the conference: XXX Computers in Cardiology Conference (CinC)

City of event: Tesalonica, Grecia,

Date of event: 21/09/2003

Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Osorio; Marta María Monserrat Del Río; Julio Gomis-Tena Dolz; JAVIER CHORRO; ANGEL FERRERO DE LOMA-OSORIO. "Computers in Cardiology 2003". pp. 291 - 294. IEEE Press, ISSN 0-7803-8170-X



- 114 Title of the work:** Inhibition of Atrial Action Potentials Alternans by Calcium-Activated Chloride Current Blockade - Simulation Study
Name of the conference: XXX Computers in Cardiology Conference (CinC)
City of event: Tesalonica, Grecia,
Date of event: 21/09/2003
Julio Gomis-Tena Dolz; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Osorio. "Computers in Cardiology 2003". pp. 421 - 424. IEEE Press, ISSN 0-7803-8170-X
- 115 Title of the work:** Vulnerability to reentry during the acute phase of myocardial ischemia: a simulation study
Name of the conference: XXX Computers in Cardiology Conference (CinC)
City of event: Tesalonica, Grecia,
Date of event: 21/09/2003
José María Ferrero De Loma-Osorio; Beatriz Ana Trenor Gomis; Fulgencio Montilla Meoro; Francisco Javier Saiz Rodríguez; José Miguel Alonso Abalos; Germán Moltó Martínez. "Computers in Cardiology 2003". pp. 425 - 428. IEEE Press, ISSN 0-7803-8170-X
- 116 Title of the work:** Effect of acute global ischemia on cardiac vulnerability to electrical shocks of the canine heart
Name of the conference: 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Cancún, México,
Date of event: 17/09/2003
Blanca Rodríguez López; José María Ferrero De Loma-Osorio. "Proceedings (CD)". pp. 151 - 154. IEEE Org., ISSN 0-7803-7790-7
- 117 Title of the work:** Effect of Calcium-Activated Current Blockade on Alternans of Atrial Action Potential. Simulation Study
Name of the conference: 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Cancún, México,
Date of event: 17/09/2003
Julio Gomis-Tena Dolz; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Osorio. "Proceedings (CD)". pp. 36 - 39. IEEE Org., ISSN 0-7803-7790-7
- 118 Title of the work:** Electrical activity and reentry in acute regional ischemia: insights from simulations
Name of the conference: 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Cancún, México,
Date of event: 17/09/2003
José María Ferrero De Loma-Osorio; Beatriz Ana Trenor Gomis; Francisco Javier Saiz Rodríguez; Fulgencio Montilla Meoro; V. HERNANDEZ. "Proceedings (CD)". pp. 17 - 20. IEEE Org., ISSN 0-7803-7790-7
- 119 Title of the work:** Simulación de la Actividad Eléctrica Cardíaca: Una Implementación Basada en Computación de Altas Prestaciones
Name of the conference: XIV Jornadas de Paralelismo
City of event: Madrid, España,
Date of event: 17/09/2003
José Miguel Alonso Abalos; José María Ferrero De Loma-Osorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. "Actas de las XIV Jornadas de Paralelismo". pp. 33 - 38. Universidad Carlos III de Madrid, ISSN 84-89315-34-5



- 120 Title of the work:** Computer Simulation of Action Potential Propagation on Cardiac Tissues: An Efficient and Scalable Parallel Approach
Name of the conference: International Conference on Parallel Computing (ParCo)
City of event: Dresden, Alemania,
Date of event: 05/09/2003
José Miguel Alonso Abalos; José María Ferrero De Loma-Orsorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. "Proceedings of PARCO 2003". pp. 339 - 346. Elsevier, ISSN 0-444-51689-1
- 121 Title of the work:** High Performance Cardiac Tissue Electrical Activity Simulation on a Parallel Environment
Name of the conference: 1st European HealthGrid Conference (HealthGrid 2003)
City of event: Lyon, Francia,
Date of event: 17/01/2003
José Miguel Alonso Abalos; José María Ferrero De Loma-Orsorio; Vicente Hernández García; Germán Moltó Martínez; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez. "Proceedings of HealthGrid". pp. 84 - 91. Dr. Sofie Norager,
- 122 Title of the work:** Pinacidil Modifies the Vulnerability to Reentry during Regional Myocardial Ischemia in a Dose Dependent Manner: a Simulation Study
Name of the conference: XXIX Computers in Cardiology Conference (CinC)
City of event: Memphis, Estados Unidos,
Date of event: 22/09/2002
Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Fulgencio Montilla Meoro. "Computesr in Cardiology 2002". pp. 735 - 738. The IEEE Inc., ISSN ISBN 0-7803-7735
- 123 Title of the work:** Simulation of Figure-of-eight Reentry During Acute Inhomogeneous Myocardial Ischemia: Role of ATP-sensitive Potassium Current
Name of the conference: XXIX Computers in Cardiology Conference (CinC)
City of event: Memphis, Estados Unidos,
Date of event: 22/09/2002
José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; Francisco Javier Saiz Rodríguez; Fulgencio Montilla Meoro. "Computesr in Cardiology 2002". pp. 251 - 254. The IEEE Inc., ISSN ISBN 0-7803-7735
- 124 Title of the work:** Development and propagation of early afterdepolarizations in a Purkinje-ventricular computer model
Name of the conference: 23th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Estambul, Turquía,
Date of event: 25/10/2001
Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; José María Ferrero Corral; NITISH V. THAKOR. "Proceedings(EMBS 2001). CD-ROM". pp. 1 - 4. The IEEE INC, ISSN 0-7803-7213-1
- 125 Title of the work:** Integrated mechanisms of K⁺ loss in myocardial ischemia: a simulation study.
Name of the conference: 23th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Estambul, Turquía,
Date of event: 25/10/2001
Blanca Rodríguez López; José María Ferrero De Loma-Orsorio. "Proceedings(EMBS 2001). CD-ROM". pp. 122 - 125. The IEEE Inc, ISSN 0-7803-7213-1



- 126** **Title of the work:** Simulation of Action Potential Propagation Block on a Bidimensional Ventricular Tissue Model During Regional Myocardial Ischemia.
Name of the conference: 23th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Estambul, Turquía,
Date of event: 25/10/2001
Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Fulgencio Montilla Meoro. "Proceedings(EMBS 2001). CD-ROM". pp. 126 - 129. The IEEE Inc, ISSN 0-7803-7213-1
- 127** **Title of the work:** The effects of ischemia on the ectopic activity induced by EADs. Computer Simulation.
Name of the conference: 23th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Estambul, Turquía,
Date of event: 25/10/2001
Enrique Colomar Pous; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. "Proceedings(EMBS 2001). CD-ROM". pp. 130 - 133. The IEEE Inc, ISSN 0-7803-7213-1
- 128** **Title of the work:** Mechanistic Investigation Of The Causes Of Cellular Potassium Loss During Acute Myocardial Ischemia: A Simulation Study
Name of the conference: XXVIII Computers in Cardiology Conference (CinC)
City of event: Rotterdam Holanda,
Date of event: 25/09/2001
Blanca Rodríguez López; José María Ferrero De Loma-Orsorio. "Computers in Cardiology 2001". pp. 268 - 271. The IEEE Inc, ISSN 0-7803-7202-7
- 129** **Title of the work:** Patterns Of Electrical Activation In An Inhomogeneous Ischemic Sheet Of Myocardial Tissue: A Simulation Study
Name of the conference: XXVIII Computers in Cardiology Conference (CinC)
City of event: Rotterdam Holanda,
Date of event: 25/09/2001
Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Fulgencio Montilla Meoro. "Computers in Cardiology 2001". pp. 272 - 275. The IEEE Inc, ISSN 0-7803-7202-7
- 130** **Title of the work:** Simulation Of Reentry Induced By Early Afterdepolarizations During Acute Myocardial Ischemia
Name of the conference: XXVIII Computers in Cardiology Conference (CinC)
City of event: Rotterdam Holanda,
Date of event: 25/09/2001
Enrique Colomar Pous; José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez. "Computers in Cardiology 2001". pp. 256 - 259. The IEEE Inc, ISSN 0-7803-7202-7
- 131** **Title of the work:** Estudio mediante simulación de los efectos de la flecainida sobre las células de músculo ventricular
Name of the conference: III Congreso de la Federación Española de Sociedades de Biología Experimental
City of event: Alicante, España,
Date of event: 07/12/2000
Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; F.JAVIER CHORRO GASCÓ; Vicente Torres Carot; José María Ferrero De Loma-Orsorio. "Libro de Resúmenes II Congreso de la federación española de sociedades de biología experimental". pp. 102 - 102. FESBE,



- 132 Title of the work:** Effect of Na⁺-K⁺ pump inhibition on extracellular potassium accumulation during myocardial ischemia: a simulation study
Name of the conference: XXVII Computers in Cardiology Conference (CinC)
City of event: Cambridge, Estados Unidos,
Date of event: 24/09/2000
Blanca Rodríguez López; José María Ferrero De Loma-Osorio. "COMPUTERS IN CARDIOLOGY 2000". pp. 315 - 318. The IEEE Inc., ISSN 0-7803-6557-7
- 133 Title of the work:** Pinacidil-induced block of action potential propagation in ischaemic tissue: a simulation study
Name of the conference: XXVII Computers in Cardiology Conference (CinC)
City of event: Cambridge, Estados Unidos,
Date of event: 24/09/2000
Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Osorio. "COMPUTERS IN CARDIOLOGY 2000". pp. 319 - 322. The IEEE Inc., ISSN 0-7803-6557-7
- 134 Title of the work:** Simulation of reentry during acute myocardial ischemia: role of K(ATP) current and acidosis
Name of the conference: XXVII Computers in Cardiology Conference (CinC)
City of event: Cambridge, Estados Unidos,
Date of event: 24/09/2000
José María Ferrero De Loma-Osorio; Vicente Torres Carot; Fulgencio Montilla Meoro; Enrique Colomar Pous. "COMPUTERS IN CARDIOLOGY 2000". pp. 239 - 242. The IEEE Inc., ISSN 0-7803-6557-7
- 135 Title of the work:** Simulation study of electrical alternans in epicardial myocytes under ischemic conditions
Name of the conference: XXVII Computers in Cardiology Conference (CinC)
City of event: Cambridge, Estados Unidos,
Date of event: 24/09/2000
Vicente Torres Carot; José María Ferrero De Loma-Osorio; Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río. "COMPUTERS IN CARDIOLOGY 2000". pp. 521 - 524. The IEEE Inc., ISSN 0-7803-6557-7
- 136 Title of the work:** Simulation study of the effects of Flecainide on ventricular muscle cells
Name of the conference: XXVII Computers in Cardiology Conference (CinC)
City of event: Cambridge, Estados Unidos,
Date of event: 24/09/2000
Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; F.JAVIER CHORRO GASCÓ; Vicente Torres Carot; José María Ferrero De Loma-Osorio. "COMPUTERS IN CARDIOLOGY 2000". pp. 513 - 516. The IEEE Inc., ISSN 0-7803-6557-7
- 137 Title of the work:** Effect of sodium inward current on extracellular potassium accumulation during myocardial ischemia: a simulation study
Name of the conference: XXVI Computers in Cardiology Conference (CinC)
City of event: Hannover, Alemania,
Date of event: 26/09/1999
Blanca Rodríguez López; José María Ferrero De Loma-Osorio. "COMPUTERS IN CARDIOLOGY 99". pp. 101 - 103. THE IEEE INC., ISSN 0-7803-5614-4
- 138 Title of the work:** Effects of potassium channel openers nicorandil and pinacidil on electrical activity of cardiac cells and cardiac tissues: A simulation study.
Name of the conference: XXVI Computers in Cardiology Conference (CinC)
City of event: Hannover, Alemania,



Date of event: 26/09/1999

Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "COMPUTERS IN CARDIOLOGY 99". pp. 105 - 108. THE IEEE INC., ISSN 0-7803-5614-4

139 Title of the work: Postrepolarization refractoriness in ventricular cardiac cells: a simulation study

Name of the conference: XXVI Computers in Cardiology Conference (CinC)

City of event: Hannover, Alemania,

Date of event: 26/09/1999

José María Ferrero De Loma-Orsorio; J SAIZ; José María Ferrero Corral; NITISH V. THAKOR. "COMPUTERS IN CARDIOLOGY 99". pp. 487 - 490. THE IEEE INC., ISSN 0-7803-5614-4

140 Title of the work: Simulation study of the ionic mechanisms involved in the all-or-none repolarization observed under ischemic conditions

Name of the conference: XXVI Computers in Cardiology Conference (CinC)

City of event: Hannover, Alemania,

Date of event: 26/09/1999

Vicente Torres Carot; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; J SAIZ. "COMPUTERS IN CARDIOLOGY 99". pp. 495 - 498. THE IEEE INC., ISSN 0-7803-5614-4

141 Title of the work: Simulación de los efectos del pinacidil sobre la corriente de potasio dependiente de ATP en el tejido miocárdico

Name of the conference: XII Congreso Argentino de Bioingeniería. Primeras Jornadas de Ingeniería Clínica

City of event: Buenos Aires, Argentina,

Date of event: 03/06/1999

Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Blanca Rodríguez López. "Actas". pp. 86 - 89. ISSN 0-8303-7017-2

142 Title of the work: Ectopic activity induced by early afterdepolarizations in a Purkinje fiber model

Name of the conference: 5th Conference of the European Society for Engineering and Medicine (ESEM '99)

City of event: Barcelona, España,

Date of event: 30/05/1999

Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Vicente Torres Carot; José María Ferrero Corral. "Book of Abstracts". pp. 409 - 410. ISSN 84-95185-29-6

143 Title of the work: Modelling Cardiac Electrical Activity

Name of the conference: 5th Conference of the European Society for Engineering and Medicine (ESEM '99)

City of event: Barcelona, España,

Date of event: 30/05/1999

Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. "Book of Abstracts". pp. 59 - 59. ISSN 84-95185-29-6

144 Title of the work: Restitution of action potential duration in canine epicardium during metabolic inhibition. A computer simulation study

Name of the conference: 5th Conference of the European Society for Engineering and Medicine (ESEM '99)

City of event: Barcelona, España,

Date of event: 30/05/1999

Vicente Torres Carot; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero Corral. "Book of Abstracts". pp. 485 - 486. ISSN 84-95185-29-6

- 145 Title of the work:** Simulation study of nicorandil effects on action potential duration. Comparison with pinacidil.
Name of the conference: 5th Conference of the European Society for Engineering and Medicine (ESEM '99)
City of event: Barcelona, España,
Date of event: 30/05/1999
Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "Book of Abstracts". pp. 405 - 406. ISSN 84-95185-29-6
- 146 Title of the work:** Sodium- related mechanisms of extracellular K⁺ accumulation in myocardial ischemia: a simulation study
Name of the conference: 5th Conference of the European Society for Engineering and Medicine (ESEM '99)
City of event: Barcelona, España,
Date of event: 30/05/1999
Blanca Rodríguez López; José María Ferrero De Loma-Orsorio. "Book of Abstracts". pp. 403 - 404. ISSN 84-95185-29-6
- 147 Title of the work:** Computer Model of the Effects of Pinacidil on ATP-sensitive Potassium Current
Name of the conference: 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Hong Kong, China,
Date of event: 29/10/1998
Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Blanca Rodríguez López; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Proceedings (CD-ROM)". pp. 40 - 43. The IEEE Inc., ISSN 0-7803-5167-3
- 148 Title of the work:** Reflection and ectopic activity induced by early afterdepolarizations. A computer modeling study
Name of the conference: 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Hong Kong, China,
Date of event: 29/10/1998
Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; Julio Gomis-Tena Dolz; Vicente Torres Carot; José María Ferrero De Loma-Orsorio; José María Ferrero Corral; NITISH V. THAKOR. "Proceedings (CD-ROM)". pp. 3090 - 3093. The IEEE Inc., ISSN 0-7803-5167-3
- 149 Title of the work:** Simulation study of the contribution of the ATP- dependent potassium current to extracellular potassium accumulation during myocardial ischemia
Name of the conference: 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Hong Kong, China,
Date of event: 29/10/1998
Blanca Rodríguez López; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; José María Ferrero Corral; Francisco Javier Saiz Rodríguez; NITISH V. THAKOR. "Proceedings (CD-ROM)". pp. 44 - 47. The IEEE Inc., ISSN 0-7803-5167-3
- 150 Title of the work:** Actividad ectópica en fibras ventriculares inducida por EADs: Estudio mediante simulación por ordenador
Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB '98)
City of event: Valencia, España,

Date of event: 21/09/1998

Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; Vicente Torres Carot; José María Ferrero De Loma-Orsorio; José María Ferrero Corral. "LIBRO DE ACTAS (CASEIB'98)". pp. 49 - 52. SERVICIO DE PUBLICACIONES DE LA U.P.VALENCIA, ISSN 84-7721-664-9

151 Title of the work: Emulador de Ratón para Usuarios/as con Discapacidades Motoras

Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB'98)

City of event: Valencia, España,

Date of event: 21/09/1998

RAFAEL MONTERDE DÍAZ; José María Ferrero De Loma-Orsorio. "LIBRO DE ACTAS (CASEIB 98)". pp. 401 - 404. REPROVAL S.L., ISSN 84-7721-664-9

152 Title of the work: Estudio de la Caracterización de Corrientes Iónicas Mediante Experimentos de Fijación de Potencial

Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB'98)

City of event: Valencia, España,

Date of event: 21/09/1998

Vicente Torres Carot; José María Ferrero De Loma-Orsorio. "LIBRO DE ACTAS (CASEIB 98)". pp. 75 - 78. REPROVAL S.L., ISSN 84-7721-664-9

153 Title of the work: Estudio Mediante Simulación de las Causas de los "Alternantes Eléctricos" en la Isquemia Miocárdica

Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB'98)

City of event: Valencia, España,

Date of event: 21/09/1998

José María Ferrero De Loma-Orsorio; Blanca Rodríguez López; Beatriz Ana Trenor Gomis; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; José María Ferrero Corral. "LIBRO DE ACTAS (CASEIB 98)". pp. 45 - 48. REPROVAL S.L., ISSN 84-7721-664-9

154 Title of the work: Evaluación de Derivaciones Electrocardiográficas para la Detección de la Onda P

Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB'98)

City of event: Valencia, España,

Date of event: 21/09/1998

MARIA ISABEL AVILÉS MARTÍNEZ; José María Ferrero De Loma-Orsorio. "LIBRO DE ACTAS (CASEIB 98)". pp. 93 - 96. REPROVAL S.L., ISSN 84-7721-664-9

155 Title of the work: Modelización Matemática de los Efectos del Pinacidil sobre la Corriente de Potasio Dependiente de ATP

Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB'98)

City of event: Valencia, España,

Date of event: 21/09/1998

Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio. "LIBRO DE ACTAS (CASEIB 98)". pp. 37 - 40. REPROVAL S.L., ISSN 84-7721-664-9

156 Title of the work: Simulación de la contribución de la IK(ATP) a la acumulación extracelular de K⁺ en isquemia

Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB'98)

City of event: Valencia, España,

Date of event: 21/09/1998

Blanca Rodríguez López; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; José María Ferrero Corral; NITISH V. THAKOR. "LIBRO DE ACTAS (CASEIB 98)". pp. 67 - 69. REPROVAL S.L., ISSN 84-7721-664-9

157 Title of the work: Action potential duration inhomogeneities in acute myocardial ischemia: a simulation study

Name of the conference: XXV Computers in Cardiology Conference (CinC)

City of event: Cleveland, Estados Unidos,

Date of event: 13/09/1998

José María Ferrero De Loma-Orsorio; Blanca Rodríguez López; Beatriz Ana Trenor Gomis; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 98". pp. 577 - 580. THE IEEE INC., ISSN 0-7803-5200-9

158 Title of the work: Role of the ATP-sensitive potassium current in extracellular potassium accumulation during myocardial ischemia: a simulation study.

Name of the conference: XXV Computers in Cardiology Conference (CinC)

City of event: Cleveland, Estados Unidos,

Date of event: 13/09/1998

Blanca Rodríguez López; José María Ferrero De Loma-Orsorio; Beatriz Ana Trenor Gomis; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 98". pp. 585 - 587. THE IEEE INC., ISSN 0-7803-5200-9

159 Title of the work: Simulation of ectopic activity induced by EADs in Purkinje fibers. Influence of Purkinje-muscle coupling

Name of the conference: XXV Computers in Cardiology Conference (CinC)

City of event: Cleveland, Estados Unidos,

Date of event: 13/09/1998

Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Vicente Torres Carot; Beatriz Ana Trenor Gomis; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 98". pp. 181 - 184. THE IEEE INC., ISSN 0-7803-5200-9

160 Title of the work: Simulation Study of the Effect of Pinacidil on ATP-sensitive Potassium Current and Action Potential Duration in Myocardial Tissue

Name of the conference: XXV Computers in Cardiology Conference (CinC)

City of event: Cleveland, Estados Unidos,

Date of event: 13/09/1998

Beatriz Ana Trenor Gomis; José María Ferrero De Loma-Orsorio; Blanca Rodríguez López; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 98". pp. 581 - 584. THE IEEE INC., ISSN 0-7803-5200-9

161 Title of the work: ESTUDIO MEDIANTE SIMULACIÓN POR ORDENADOR DEL EFECTO DE LA INHIBICIÓN METABÓLICA SOBRE EL POTENCIAL DE ACCIÓN EN EL EPICARDIO

Name of the conference: XV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB '97)

City of event: Valencia, España,

Date of event: 30/10/1997

Vicente Torres Carot; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero Corral. "Actas CASEIB 97". pp. 260 - 263. Juan F. Guerrero Martinez, ISSN 84-8498-810-4

- 162** **Title of the work:** INCREMENTO DEL PERIODO REFRACTARIO EFECTIVO MEDIANTE LA UTILIZACIÓN DE TRENES DE IMPULSOS SUBUMBRALES
Name of the conference: XV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB '97)
City of event: Valencia, España,
Date of event: 30/10/1997
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; F.JAVIER CHORRO GASCÓ; Marta María Monserrat Del Río; Vicente Torres Carot; José María Ferrero Corral; NITISH V. THAKOR. "Actas CASEIB 97". pp. 272 - 275. Juan F. Guerrero Martinez, ISSN 84-8498-810-4
- 163** **Title of the work:** INFLUENCE OF PURKINJE-MUSCLE COUPLING ON EAD DEVELOPMENT: A SIMULATION STUDY
Name of the conference: XXIV Computers in Cardiology Conference (CinC)
City of event: Lund, Suecia,
Date of event: 30/10/1997
Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Vicente Torres Carot; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 97". pp. 513 - 516. IEEE, ISSN 0-7803-4445-6
- 164** **Title of the work:** Inhibitory effect of subthreshold high-frequency stimuli: a computer simulation study
Name of the conference: 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Chicago, Estados Unidos,
Date of event: 30/10/1997
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; F.JAVIER CHORRO GASCÓ; Marta María Monserrat Del Río; VICENTE LÓPEZ MERINO; José María Ferrero Corral; NITISH V. THAKOR. "Proceedings (EMBS 1997)". pp. 213 - 215. IEEE PRESS, ISSN 0-7803-4265-8
- 165** **Title of the work:** PROLONGATION OF REFRACTORINESS BY TRAINS OF SUBTHRESHOLD HIGH-FREQUENCY STIMULI. A SIMULATION STUDY
Name of the conference: XXIV Computers in Cardiology Conference (CinC)
City of event: Lund, Suecia,
Date of event: 30/10/1997
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; F.JAVIER CHORRO GASCÓ; Marta María Monserrat Del Río; Vicente Torres Carot; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 97". pp. 709 - 712. IEEE, ISSN 0-7803-4445-6
- 166** **Title of the work:** Propagation of action potentials in cardiac acute regional ischemia: a computer simulation study
Name of the conference: 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Chicago, Estados Unidos,
Date of event: 30/10/1997
José María Ferrero De Loma-Orsorio; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Proceedings (EMBS 1997)". pp. 216 - 219. IEEE PRESS, ISSN 0-7803-4265-8
- 167** **Title of the work:** Simulación de la actividad eléctrica de las células ventriculares mediante circuitos analógicos
Name of the conference: XV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB '97)
City of event: Valencia, España,
Date of event: 30/10/1997

Beatriz Ana Trenor Gomis; Blanca Rodríguez López; José María Ferrero De Loma-Orsorio; José María Ferrero Corral. "Actas CASEIB 97". pp. 203 - 205. Juan F. Guerrero Martínez, ISSN 84-8498-810-4

- 168 Title of the work:** SIMULACIÓN DE POTENCIALES DE ACCIÓN EN TEJIDO VENTRICULAR NO HOMOGÉNEO DURANTE LA FASE AGUDA DE LA ISQUEMIA MIOCÁRDICA
Name of the conference: XV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB '97)
City of event: Valencia, España,
Date of event: 30/10/1997
José María Ferrero De Loma-Orsorio; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; José María Ferrero Corral. "Actas CASEIB 97". pp. 264 - 267. Juan F. Guerrero Martínez, ISSN 84-8498-810-4

- 169 Title of the work:** SIMULACIÓN DEL EFECTO DE LA UNIÓN PURKINJE-MÚSCULO EN LA GENERACIÓN Y PROPAGACIÓN DE POST-POTENCIALES TEMPRANOS
Name of the conference: XV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB '97)
City of event: Valencia, España,
Date of event: 30/10/1997
Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Vicente Torres Carot; José María Ferrero Corral. "Actas CASEIB 97". pp. 268 - 270. Juan F. Guerrero Martínez, ISSN 84-8498-810-4

- 170 Title of the work:** Simulation study of action potentials during acute myocardial ischemia.
Name of the conference: XXIV Computers in Cardiology Conference (CinC)
City of event: Lund, Suecia,
Date of event: 30/10/1997
José María Ferrero De Loma-Orsorio; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 97". pp. 705 - 708. IEEE, ISSN 0-7803-4445-6

- 171 Title of the work:** SIMULATION STUDY OF EPICARDIAL ACTION POTENTIAL UNDER NORMAL AND ISCHEMIC CONDITIONS
Name of the conference: XXIV Computers in Cardiology Conference (CinC)
City of event: Lund, Suecia,
Date of event: 30/10/1997
Vicente Torres Carot; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Computers in Cardiology 97". pp. 501 - 504. IEEE, ISSN 0-7803-4445-6

- 172 Title of the work:** Computer simulation of action potential duration inhomogeneities in cardiac hypoxia. Role of the ATP-sensitive K current
Name of the conference: 18th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Amsterdam Holanda,
Date of event: 31/10/1996
José María Ferrero De Loma-Orsorio; Vicente Torres Carot; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; NITISH V. THAKOR. "Conference Proceedings". pp. 347 - 348. IEEE, ISSN 90-9010005-9

- 173 Title of the work:** Role of early afterdepolarizations on ectopic activity in ventricular tissue. A computer modeling study
Name of the conference: 18th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Amsterdam Holanda,



Date of event: 31/10/1996

Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; José María Ferrero De Loma-Orsorio; José María Ferrero Corral; NITISH V. THAKOR. "Conference Proceedings". pp. 748 - 749. IEEE, ISSN 90-9010005-9

- 174 Title of the work:** Effects of intracellular calcium concentration and intercellular coupling on early afterdepolarizations in ventricular myocytes

Name of the conference: XXIII International Congress on Electrocardiology

City of event: Cleveland, Estados Unidos,

Date of event: 31/07/1996

F.J. SAIZ; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; José María Ferrero Corral; NITISH V. THAKOR. "ELECTROCARDIOLOGY'96 (PROCEEDINGS)". pp. 209 - 212. CASE WESTERN RESERVE UNIVERSITY, ISSN 981-02-3109-1

- 175 Title of the work:** ROLE OF THE CARDIAC ATP-SENSITIVE K⁺ CURRENT IN SICHEMIA: A COMPUTER MODELLING STUDY

Name of the conference: XXIII International Congress on Electrocardiology

City of event: Cleveland, Estados Unidos,

Date of event: 31/07/1996

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- 176 Title of the work:** Influencia del acoplamiento intercelular sobre los postpotenciales tempranos en fibras de miocardio ventricular

Name of the conference: XIII Congreso Anual de la Agrupación Española de Bioingeniería

City of event: Barcelona, España,

Date of event: 26/10/1995

Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Marta María Monserrat Del Río; Vicente Torres Carot; NITISH V. THAKOR; José María Ferrero Corral. "Actas". pp. 117 - 118. SERVICIO DE PUBLICACIONES DE LA U.P.C., ISSN 84-89349-25-8

- 177 Title of the work:** Modelización del comportamiento eléctrico del canal de potasio sensible a ATP en células del miocardio. Aplicación a situaciones de hipoxia e isquemia

Name of the conference: XIII Congreso Anual de la Agrupación Española de Bioingeniería

City of event: Barcelona, España,

Date of event: 26/10/1995

José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; Marta María Monserrat Del Río; Vicente Torres Carot; NITISH V. THAKOR; José María Ferrero Corral. "Actas". pp. 115 - 116. SERVICIO DE PUBLICACIONES DE LA U.P.C., ISSN 84-89349-25-8

- 178 Title of the work:** Effects of cell-to-cell coupling on afterdepolarizations in ventricular myocytes: a computer modelling study

Name of the conference: 19th Annual Johns Hopkins In-House Cell Biology Day

City of event: Baltimore, Estados Unidos,

Date of event: 15/06/1995

Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; NITISH V. THAKOR. "Abstract Book". pp. 38 - 38.

- 179 Title of the work:** Role of the ATP-sensitive potassium channel during hypoxia and ischemia in myocardial cells: a computer modelling study

Name of the conference: 19th Annual Johns Hopkins In-House Cell Biology Day

City of event: Baltimore, Estados Unidos,



Date of event: 15/06/1995

José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; NITISH V. THAKOR. "Abstract Book". pp. 40 - 40.

180 Title of the work: A comparison of two real-time ECG compression algorithms

Name of the conference: V International Symposium on Biomedical Engineering

City of event: Santiago de Compostela, España,

Date of event: 13/09/1994

NURIA GONZALEZ VALERO; Antonio Mocholí Salcedo; José María Ferrero Corral; José María Ferrero De Loma-Orsorio; SERGIO GONZALEZ ANIORTE. "Proceedings". pp. 63 - 64. Facultad de Física. Univ. Santiago de Compostela, ISSN 84-600-8981-9

181 Title of the work: Analytical derivation of the internodal transfer function in myelinated fibers

Name of the conference: 15th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)

City of event: San Diego, Estados Unidos,

Date of event: 28/10/1993

José María Ferrero Corral; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. "Proceedings". pp. 1484 - 1485. IEEE Press Inc., ISSN 0-7803-1378-1

182 Title of the work: Determinación de la función de transferencia internodal en fibras mielínicas

Name of the conference: XII Reunión Anual de la Asociación Española de Bioingeniería (AEB)

City of event: Jaca, España,

Date of event: 12/04/1993

José María Ferrero Corral; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio. "Actas". pp. 23 - 26.

183 Title of the work: Sistema de medida de señales luminosas débiles para el desarrollo de biosensores basados en quimioluminiscencia y/o fluorescencia

Name of the conference: XII Reunión Anual de la Asociación Española de Bioingeniería (AEB)

City of event: Jaca, España,

Date of event: 12/04/1993

José María Ferrero Corral; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Enrique Colomar Pous; Ángel Montoya Baides; M^a Del Carmen March Iborra; Antonio Mocholí Salcedo. "Actas". pp. 75 - 78.

184 Title of the work: Electric Induced field stimulation technique using toroidal coils. An application to evoked potentials

Name of the conference: VI Mediterranean Conference on Medical and Biological Engineering (MEDICON)

City of event: Capri, Italia,

Date of event: 05/07/1992

José María Ferrero Corral; Montserrat Robles Viejo; Enrique Domingo Guijarro Estelles; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Orsorio; Antonio Mocholí Salcedo. "Proceedings". pp. 221 - 225. ISSN @

185 Title of the work: Study of the electrode-skin interface behaviour in switching transients

Name of the conference: VI Mediterranean Conference on Medical and Biological Engineering (MEDICON)

City of event: Capri, Italia,

Date of event: 05/07/1992

José María Ferrero De Loma-Orsorio; Francisco Javier Saiz Rodríguez; José María Ferrero Corral; Montserrat Robles Viejo; Enrique Domingo Guijarro Estelles; Antonio Arnau Vives. "Proceedings". pp. 373 - 376. ISSN @



- 186 Title of the work:** Multichannel Acquisition of Bioelectric Signals Using the Flying Capacitor Technique
Name of the conference: 13th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Orlando, Estados Unidos,
Date of event: 31/10/1991
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Ororio; José María Ferrero Corral; José Luís Martínez De Juan. "PROCEEDINGS". pp. 1724 - 1725. The IEEE Inc., ISSN 0-7803-0216-8
- 187 Title of the work:** Bioelectrode behaviour in switching amplifiers
Name of the conference: IV International Symposium on Biomedical Engineering
City of event: Peñíscola, España,
Date of event: 17/09/1991
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Ororio; José María Ferrero Corral; Antonio Arnau Vives; Antonio Mocholí Salcedo; Enrique Colomar Pous; Pedro Antonio Marchante Alberca. "Proceedings of IV International Symposium on Biomedical Engineering". pp. 105 - 106. Servicio de Publicaciones UPV, ISSN 84-7721-153-1
- 188 Title of the work:** Evoked Potentials Generated by the Heartbeat
Name of the conference: IV International Symposium on Biomedical Engineering
City of event: Peñíscola, España,
Date of event: 17/09/1991
Enrique Domingo Guijarro Estelles; José María Ferrero Corral; Montserrat Robles Viejo; Enrique Colomar Pous; José María Ferrero De Loma-Ororio; Antonio Arnau Vives. "Proceedings of IV International Symposium on Biomedical Engineering". pp. 78 - 79. Servicio de Publicaciones UPV, ISSN 84-7721-153-1
- 189 Title of the work:** Evoked Potentials Obtained by Longitudinal Induced Electric Field Stimulation
Name of the conference: IV International Symposium on Biomedical Engineering
City of event: Peñíscola, España,
Date of event: 17/09/1991
Montserrat Robles Viejo; José María Ferrero Corral; Enrique Domingo Guijarro Estelles; José María Ferrero De Loma-Ororio; Antonio Mocholí Salcedo; Francisco Javier Saiz Rodríguez; Antonio Arnau Vives. "Proceedings of IV International Symposium on Biomedical Engineering". pp. 89 - 90. Servicio de Publicaciones UPV, ISSN 84-7721-153-1
- 190 Title of the work:** Longitudinal Induced Electric Field Stimulation Without Contact Electrodes
Name of the conference: IV International Symposium on Biomedical Engineering
City of event: Peñíscola, España,
Date of event: 17/09/1991
Montserrat Robles Viejo; José María Ferrero Corral; José María Ferrero De Loma-Ororio; Enrique Domingo Guijarro Estelles; CARLOS ENGUIX NICOLÁS; Enrique Colomar Pous. "Proceedings of IV International Symposium on Biomedical Engineering". pp. 86 - 88. Servicio de Publicaciones UPV, ISSN 84-7721-153-1
- 191 Title of the work:** Multichannel amplifying system for acquisition of bioelectric signals
Name of the conference: IV International Symposium on Biomedical Engineering
City of event: Peñíscola, España,
Date of event: 17/09/1991
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Ororio; José María Ferrero Corral; Enrique Domingo Guijarro Estelles; Montserrat Robles Viejo; José Luís Martínez De Juan. "Proceedings of IV International Symposium on Biomedical Engineering". pp. 122 - 123. Servicio de Publicaciones UPV, ISSN 84-7721-153-1



- 192 Title of the work:** Proposal for a liquid phase microgravimetric biosensor using forced vibration crystals
Name of the conference: IV International Symposium on Biomedical Engineering
City of event: Peñíscola, España,
Date of event: 17/09/1991
José María Ferrero Corral; Antonio Arnau Vives; Ángel Montoya Baides; Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Osorio. "Proceedings of IV International Symposium on Biomedical Engineering". pp. 7 - 8. Servicio de Publicaciones UPV, ISSN 84-7721-153-1
- 193 Title of the work:** Amplificación de Señales Bioeléctricas Utilizando la Técnica del Condensador Conmutado
Name of the conference: X Reunión Anual de la Asociación Española de Bioingeniería (AEB)
City of event: Madrid, España,
Date of event: 12/09/1991
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Osorio; José María Ferrero Corral. "Actas". pp. 5 - 5.
- 194 Title of the work:** Bioelectric Signal Amplification Exploiting the switching behaviour of electrode impedance
Name of the conference: 12th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
City of event: Filadelfia, Estados Unidos,
Date of event: 01/11/1990
Francisco Javier Saiz Rodríguez; José María Ferrero De Loma-Osorio; José María Ferrero Corral; Enrique Domingo Guijarro Estelles. "Proceedings". pp. 1076 - 1078. The IEEE Inc., ISSN 0-87942-559-8

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Medical & Biological Engineering & Computing. Tipo participación: Comité de edición.
ISSN: 0140-0118
Start date: 2015
- 2 Committee title:** XXIV Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2006).
Tipo participación: Miembro del comité de programa
Start date: 2006
- 3 Committee title:** XVI CONGRESO ANUAL DE LA SOCIEDAD ESPAÑOLA DE INGENIERÍA BIOMÉDICA (CASEIB'98). Tipo participación: Miembro del comité de organización
Start date: 1998
- 4 Committee title:** IV International Symposium on Biomedical Engineering. Tipo participación: Miembro del comité de organización
Start date: 1991

R&D management

- 1** **Name of the activity:** Miembro del Comité Organizador del congreso CASEIB 2016
Start date: 23/11/2016 **Duration:** 2 days
- 2** **Name of the activity:** Member of the Journal Committee of the Int Federation of Med and Biol Eng
Start date: 04/11/2015 **Duration:** 3 years - 11 months - 29 days
- 3** **Name of the activity:** Coordinación programa de doctorado Tecnologías de la Salud y el Bienestar
Start date: 03/09/2007 **Duration:** 7 years - 9 months - 27 days
- 4** **Name of the activity:** Presidente del Comité Organizador del congreso Computers in Cardiology 2006
Start date: 17/09/2006 **Duration:** 3 days
- 5** **Name of the activity:** Miembro del Comité Organizador del congreso CASEIB 1998
Start date: 21/09/1998 **Duration:** 2 days
- 6** **Name of the activity:** Miembro del Comité Organizador del Int. Symposium on Biomedical Engineering
Start date: 02/09/1991 **Duration:** 3 days

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Politecnico di Milano
City of entity: Milán, Italy
Start date: 19/05/2017
Type of entity: University
Duration: 1 month
- 2** **Entity:** Universidad de Szeged
City of entity: Szeged, Hungary
Start date: 11/04/2014
Type of entity: University
Duration: 1 month
- 3** **Entity:** Universidad de Szeged
City of entity: Szeged, Hungary
Start date: 03/03/2010
Type of entity: University
Duration: 3 months
- 4** **Entity:** JOHNS HOPKINS UNIVERSITY
City of entity: Baltimore, United States of America
Start date: 01/02/1995
Type of entity: University
Duration: 7 months



Editorial councils

Name of the editorial council: Medical & Biological Engineering & Computing

Affiliation entity: Springer-Verlag

Professional category: Comité de edición

Start date: 2015

Duration: 12 months

Prizes, mentions and distinctions

- 1** **Description:** Premio de Excelencia Docente 2017 de la Escuela Técnica Superior de Ingenieros Industriales de la Universidad Politécnica de Valencia
Awarding entity: Escuela Técnica Superior de Ingenieros Industriales de la Universidad Politécnica de Valencia
Conferral date: 18/10/2017
- 2** **Description:** Segundo Premio al tutor de la mejor presentación de estudiante en el congreso CASEIB 2016
Awarding entity: Sociedad Española de Ingeniería Biomédica
Conferral date: 25/11/2016
- 3** **Description:** Premio BANCAJA 2010 al tutor del mejor Proyecto Final de Carrera
Awarding entity: Bancaja
Conferral date: 14/09/2010
- 4** **Description:** Premio a la mejor presentación oral en el simposium "Computational Pathophysiology of Cardiac Cells" del 12th World Multi-Conference on Systemics, Cybernetics and Informatics 2008
Awarding entity: International Institute of Informatics and Systemics
Conferral date: 19/06/2008
- 5** **Description:** Premio a la mejor presentación de póster en el congreso Computers in Cardiology 2005
Awarding entity: Computing in Cardiology Society
Conferral date: 14/09/2005
- 6** **Description:** Premio a la mejor presentación de póster en el congreso Computers in Cardiology 1999
Awarding entity: Computing in Cardiology Society
Conferral date: 21/09/1999
- 7** **Description:** Primer Premio al tutor de la mejor presentación de estudiante en el congreso CASEIB 1998
Awarding entity: Sociedad Española de Ingeniería Biomédica
Conferral date: 01/09/1998

Periods of research activity

Nº of recognized periods: 5

Certifying entity: Comisión Nacional Evaluadora de la Actividad Investigadora (CNEAI)

Obtained accreditations/recognitions

Description: Quinquenios

Nº of recognized periods: 6

Summary of other achievements

- 1 Description of the achievement:** Profesor invitado en la Universidad Rey Juan Carlos (Máster en Ingeniería Biomédica, curso 2011/12).
- 2 Description of the achievement:** Profesor invitado en la Universidad Nacional de Educación a Distancia (Máster en Tecnología e Instrumentación Biomédica, curso 2000/01).
- 3 Description of the achievement:** Profesor invitado en la Universidad de Zaragoza (curso de doctorado y máster "Modelización de la actividad eléctrica del corazón" (cursos 2008/09 - 2014/15 y 2016/17)
- 4 Description of the achievement:** Profesor invitado en la Universidad de Oviedo (curso de doctorado "Bioelectrónica y Comunicaciones" (cursos 1996/97, 1997/98, 1998/99)
- 5 Description of the achievement:** Revisor científico de la revista Medical and Biological Engineering and Computing (años 2005, 2017, 2018)
- 6 Description of the achievement:** Conferenciante invitado en la Universidad de Zaragoza (año 2005)
- 7 Description of the achievement:** Conferenciante invitado en la Universidad Nacional de San Martín (Buenos Aires, Argentina) (año 2013)
- 8 Description of the achievement:** Conferenciante invitado en la University of Leeds (Reino Unido) (año 2002)
- 9 Description of the achievement:** Conferenciante invitado en la Universidad Politécnica de Cataluña (año 2008)
- 10 Description of the achievement:** Conferenciante invitado en la Universidad de Szeged (Hungria) (año 2010)



- 11 Description of the achievement:** Conferenciante invitado en el Politecnico di Milano (Italia) (año 2017)
- 12 Description of the achievement:** Conferenciante invitado en la University of Oxford (Reino Unido) (año 2007)
- 13 Description of the achievement:** Miembro del Comité Científico del CASEIB (Congreso Anual de la Sociedad Española de Ingeniería Biomédica) (años 2002-2005, 2008-2010, 2013-2016)
- 14 Description of the achievement:** Miembro del Comité Científico del Computing in Cardiology Conference (años 2005-2016)
- 15 Description of the achievement:** Presidente de sesión (chairman) en el congreso Computing in Cardiology (años 2000-2015)
- 16 Description of the achievement:** Revisor científico de la revista IEEE Journal of Biomedical and Health Informatics (año 2015)
- 17 Description of the achievement:** Revisor científico de la revista Current Pharmaceutical Design (año 2014)
- 18 Description of the achievement:** Revisor científico de la revista Biomedical Signal Processing and Control (año 2013)
- 19 Description of the achievement:** Revisor científico de la revista EUROPACE (The European Journal of Pacing, Arrhythmias and Cardiac Electrophysiology) (año 2013)
- 20 Description of the achievement:** Revisor científico de la revista British Journal of Pharmacology (año 2011)
- 21 Description of the achievement:** Revisor científico de la revista IEEE Transactions on Biomedical Engineering (años 1999, 2000 y 2008)
- 22 Description of the achievement:** Presidente de sesión (chairman) en el 12th World Multi-Conference on Systemics, Cybernetics and Informatics 2008
- 23 Description of the achievement:** Organizador del symposium "Modelling Cardiac Electrical Activity" del "Fifth Conference of the European Society for Engineering and Medicine"
- 24 Description of the achievement:** Presidente de sesión (chairman) en el "V Conference of the European Society for Engineering and Medicine"

**C****V****n**

CURRÍCULUM VITAE NORMALIZADO

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- 25** **Description of the achievement:** Miembro de la Comisión de Evaluación de Proyectos del Programa TEC 2006 del Programa Nacional de I+D+i del Ministerio de Educación Y Ciencia. 2006