



**Pablo Salvador Fernandez  
Escamez**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Pablo S. Fernández Escámez es Catedrático de Universidad del área de Tecnología de Alimentos en la Universidad Politécnica de Cartagena desde 2009. Está adscrito a la Escuela Técnica Superior de Ingeniería Agronómica, en la que desarrolla tareas docentes e investigadoras desde 1999. También pertenece al Instituto de Biotecnología Vegetal de la misma Universidad. Su carrera investigadora se ha desarrollado en el ámbito de la seguridad microbiológica de alimentos. Sus líneas de investigación son: evaluación de riesgos microbiológicos, microbiología predictiva, fisiología de microorganismos patógenos alimentarios, tecnologías de conservación de alimentos térmicas y no térmicas.

Desde 2012 es Experto del Panel de Riesgos Biológicos de la European Food Safety Authority de la Unión Europea (EFSA). También ha sido miembro del Panel de Publicaciones de ILSI Europe (2007-2012) y del grupo de expertos en Evaluación de riesgos microbiológicos de ILSI (2003-2012). Ha colaborado como evaluador de proyectos de investigación nacionales e internacionales (UE, Latinoamérica) y como evaluador de numerosas revistas científicas del ámbito de microbiología y tecnología de alimentos, desde 1995 hasta la actualidad. Lidera la Unidad Asociada entre la Universidad Politécnica de Cartagena y el Instituto de Agroquímica de Alimentos de Valencia (CSIC) de Conservación y Seguridad Alimentaria desde 2004.

Ha realizado estancias pre-y post-doctorales en diferentes centros europeos: Institute of Food Research Norwich, University of Bristol, Central Science Laboratory Aberdeen (Reino Unido) y en Unilever R&D Vlaardingen (Países Bajos), entre 1992 y 2012. Cuenta con más de 80 publicaciones en revistas científicas de alto impacto en el ámbito de la microbiología de alimentos, en publicaciones del EFSA Journal relacionadas con la evaluación de riesgos y numerosos capítulos de libro de editoriales internacionales. Ha participado o dirigido más de 30 proyectos de investigación nacionales e internacionales, habiendo dirigido 7 tesis doctorales. Ha impartido conferencias, ponencias y cursos en el ámbito de la evaluación de riesgos alimentaria a nivel nacional e internacional, para instituciones como FAO o el Ministerio de Sanidad de Colombia. Entre 2012 y 2015 ha sido Vicerrector de Investigación e Innovación de la Universidad Politécnica de Cartagena.

Su actividad científica de estos últimos años se centra en el establecimiento de la seguridad microbiológica y su validación frente a tecnologías térmicas y no térmicas, así como la evaluación de riesgos asociada a todo tipo de alimentos y subproductos de origen animal y marino expuestos a diferentes métodos de inactivación siguiendo la metodología de la Autoridad Europea de Seguridad Alimentaria (EFSA). También pertenece a la Red Nacional de Riesgos Emergentes de la Agencia Española de Consumo, Seguridad Alimentaria y Nutrición. Actualmente coordina la Red de Excelencia sobre el Desarrollo de la estructura necesaria para llevar a cabo una priorización y evaluación de riesgos biológicos cuantitativa en España, en la que participan 10 instituciones correspondientes a Universidades, Centros públicos de investigación, Centros Tecnológicos y la AECOSAN. Actualmente es co-IP de un Proyecto de MINECO dentro de la convocatoria "Retos para la Sociedad", iniciado el 1/1/2018.



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Tramos de actividad investigadora reconocidos (Sexenios): Cuatro (último, 2010-2015).

Tesis últimos diez años: **4**.

Citas totales. 1.454 (WOS all databases).

Promedio citas/año (20010-2016). **83 citas/año** (WOK all databases); Publicaciones totales/ primer cuartil: 70 (75%).

Indice 'H': **24 ( Web of Science)**

**Pablo Salvador Fernandez Escamez**

Surname(s): **Fernandez Escamez**  
 Name: **Pablo Salvador**  
 DNI: **27469368P**  
 Date of birth: **17/09/1967**  
 Gender: **Male**  
 Land line phone: **(+34) 968325905**  
 Fax: **(+34) 968325433**  
 Email: **pablo.fernandez@upct.es**

**Current professional situation**

**Employing entity:** Universidad Politécnica de Cartagena  
**Department:** Escuela Técnica Superior de Ingeniería Agronómica  
**Professional category:** Catedrático de Universidad  
**City employing entity:** Paseo Alfonso XIII, Spain  
**Phone:** 968325706 **Fax:** 968325433 **Email:** pablo.fernandez@upct.es  
**Start date:** 17/11/2009  
**Type of contract:** Civil servant **Dedication regime:** Full time  
**Primary (UNESCO code):** 330913 - Food preservation; 330915 - Food sanitation; 330925 - Sterilisation of food; 330990 - Food Microbiology  
**Secondary (UNESCO code):** 330906 - Canning; 330993 - Canned vegetables  
**Performed tasks:** Investigación en microbiología de alimentos, evaluación de riesgos biológicos cuantitativos en alimentos, microbiología predictiva  
**Identify key words:** Agri foodstuffs; Food technology

**Previous positions and activities**

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
<b>1</b>	Universidad Universidad Politécnica de Cartagena	Profesor Titular de Universidad	03/2002
<b>2</b>	Universidad Politécnica de Cartagena	Profesor Titular E. U. Interino	10/1999
<b>3</b>	Universidad Miguel Hernández de Elche	Profesor Ayudante Doctor	10/1997
<b>4</b>	Centro de Edafología y Biología Aplicada del Segura, CSIC	Investigador Contratado CSIC	01/1996
<b>5</b>	Institute of Food Research	Becario post-doctoral Extranjero (MEC)	01/1995
<b>6</b>	Centro de Edafología y Biología Aplicada del Segura	Becario Predoctoral FPU	01/1991

**1** **Employing entity:** Universidad Universidad Politécnica de Cartagena  
**Professional category:** Profesor Titular de Universidad  
**Start-End date:** 03/2002 - 11/2009 **Duration:** 7 years - 8 months



- 2** **Employing entity:** Universidad Politécnica de Cartagena **Type of entity:** University  
**Professional category:** Profesor Titular E. U. Interino  
**Start-End date:** 10/1999 - 02/2002
- 3** **Employing entity:** Universidad Miguel Hernández **Type of entity:** University de Elche  
**Professional category:** Profesor Ayudante Doctor  
**Start-End date:** 10/1997 - 09/1999 **Duration:** 2 years
- 4** **Employing entity:** Centro de Edafología y Biología Aplicada del Segura, CSIC  
**Professional category:** Investigador Contratado CSIC  
**Start-End date:** 01/1996 - 09/1997 **Duration:** 1 year - 9 months
- 5** **Employing entity:** Institute of Food Research **Type of entity:** R&D Centre  
**Professional category:** Becario post-doctoral Extranjero (MEC)  
**Start-End date:** 01/1995 - 12/1995 **Duration:** 1 year
- 6** **Employing entity:** Centro de Edafología y Biología Aplicada del Segura  
**Professional category:** Becario Predoctoral FPU  
**Start-End date:** 01/1991 - 12/1994 **Duration:** 4 years



## Education

### University education

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

**Name of qualification:** Licenciado en Veterinaria

**Degree awarding entity:** Universidad de Murcia

**Date of qualification:** 07/1990

#### Doctorates

**Doctorate programme:** Doctor en Veterinaria

**Degree awarding entity:** Universidad de Murcia

**Date of degree:** 06/1994

## Teaching experience

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

- 1 Project title:** Mathematical modelling for the microbiological risk assessment of food following mild preservation treatments  
**Entity:** Universidad Politécnica de Cartagena **Type of entity:** University  
**Student:** Alberto Garre Pérez  
**Date of reading:** 04/05/2018
- 2 Project title:** PRESERVACIÓN DE LA SEGURIDAD ALIMENTARIA Y CALIDAD EN SMOOTHIES MORADOS MEDIANTE TRATAMIENTOS TÉRMICOS SUAVES Y ALTAS PRESIONES HIDROSTÁTICAS  
**Entity:** Universidad Politécnica de Cartagena **Type of entity:** University  
**Student:** Gerardo Anibal González Tejedor  
**Date of reading:** 23/11/2017
- 3 Project title:** Effect of relevant environmental factors for food preservation and molecular identification (HRM) of *Bacillus cereus* group.  
**Entity:** Universidad Politécnica de Cartagena  
**Student:** Vera Antolinos López  
**Obtained qualification:** Sobresaliente cum laude  
**Date of reading:** 2012
- 4 Project title:** Uso de Tecnologías Emergentes como medida de control de *Listeria monocytogenes* en alimentos vegetales a nivel de proceso.  
**Entity:** Universidad Politécnica de Cartagena  
**Student:** Leymaya Guevara Prieto



**Obtained qualification:** Sobresaliente cum laude  
**Date of reading:** 2010

- 5** **Project title:** Evaluación de tratamientos térmicos y desarrollo de modelos de inactivación por calor en bacterias esporuladas en alimentos.  
**Entity:** Universidad Politécnica de Cartagena  
**Student:** Raquel Conesa Alcaraz  
**Obtained qualification:** Sobresaliente cum laude  
**Date of reading:** 2007
- 6** **Project title:** Optimización y validación del procesado aséptico HT-ST (High Temperature Short Time) y su aplicación al cremogenado de fresa.  
**Entity:** Universidad Politécnica de Cartagena  
**Student:** Presentación García Gómez  
**Obtained qualification:** Sobresaliente cum laude  
**Date of reading:** 2006
- 7** **Project title:** Estrategias de inactivación y conservación de microorganismos de interés en alimentos con fines tecnológicos.  
**Entity:** Universidad Politécnica de Cartagena  
**Student:** M<sup>a</sup> Victoria Selma García  
**Obtained qualification:** Sobresaliente cum laude y con mención europea  
**Date of reading:** 2004
- 8** **Project title:** Evaluación de nuevas metodologías para el estudio de las cinéticas de muerte térmica de microorganismos: aplicación al Clostridium sporogenes PA3679.  
**Entity:** Universidad de Murcia  
**Student:** Rocío de Luna Martínez  
**Obtained qualification:** Sobresaliente cum laude  
**Date of reading:** 2002
- 9** **Project title:** Modelos predictivos de inactivación de Bacillus stearothermophilus y evaluación de nuevas metodologías para la obtención de datos cinéticos.  
**Entity:** Universidad de Murcia  
**Student:** Paula María Periago Bayonas  
**Obtained qualification:** Apto cum laude  
**Date of reading:** 1998





## Scientific and technological experience

### Scientific or technological activities

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

- 1** **Name of the project:** Validación de nuevas herramientas y procesos para el análisis y la mejora de la seguridad alimentaria microbiológica

**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University

**City of entity:** Cartagena, Region of Murcia, Spain

**Name principal investigator (PI, Co-PI...):** 1; Alfredo Palop Gómez; Pablo S. Fernández Escámez; Arantxa Aznar Samper; Arturo Esnoz Nicuesa; Asunción Iguaz Gaínza; Jose Alberto Egea Larrosa

**Nº of researchers:** 7

**Funding entity or bodies:** Ministerio de Economía, Industria y Competitividad **Type of entity:** University

**Code according to the funding entity:** AGL 2017-86840-C2-1-R

**Start-End date:** 01/01/2018 - 31/12/2020

**Total amount:** 121.000 €
- 2** **Name of the project:** Desarrollo de la estructura necesaria para llevar a cabo una priorización y evaluación de riesgos biológicos cuantitativa en España

**Type of project:** Research and development, including transfer **Geographical area:** National

**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University

**City of entity:** Cartagena, Region of Murcia, Spain

**Name principal investigator (PI, Co-PI...):** Pablo Fernández Escámez

**Nº of researchers:** 10

**Name of the programme:** MINECO Convocatoria Ayudas Redes de Excelencia

**Code according to the funding entity:** AGL2016-82014-REDT

**Start-End date:** 05/2017 - 04/2019
- 3** **Name of the project:** Validación de tratamientos térmicos suaves de conservación de alimentos: establecimiento de la seguridad microbiológica

**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University

**City of entity:** Cartagena, Region of Murcia, Spain

**Name principal investigator (PI, Co-PI...):** Pablo Fernández Escámez; Alfredo Palop Gómez

**Nº of researchers:** 6

**Name of the programme:** MINECO Convocatoria RETOS PARA LA SOCIEDAD

**Code according to the funding entity:** AGL 2013/48993-C2-1-R

**Start-End date:** 11/2014 - 06/2018

**Total amount:** 140.000 €





- 4** **Name of the project:** Esterilización de alimentos y desechos animales (SANDACH) mediante energía microondas con tecnología de calentamiento uniforme. (DPI2014-61857-EXP)  
**Geographical area:** National  
**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University  
**City of entity:** Cartagena, Region of Murcia, Spain  
**Name principal investigator (PI, Co-PI....):** Alejandro Díaz Morcillo; Alfredo Palop Gómez; Paula M. Periago Bayonas; Arturo Esnoz Nicuesa; Pablo S. Fernández Escámez; Asunción Iguaz Gaínza  
**N° of researchers:** 9  
**Funding entity or bodies:** Ministerio de Economía y Competitividad  
**Name of the programme:** MINECO Convocatoria EXPLORA  
**Code according to the funding entity:** DPI2014-61857-EXP  
**Start-End date:** 09/2015 - 08/2017 **Duration:** 1 year - 11 months
- 5** **Name of the project:** Aplicación conjunta de ingredientes naturales y tecnologías no térmicas en la estabilización de bebidas de origen vegetal  
**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University  
**City of entity:** Cartagena, Region of Murcia, Spain  
**Name principal investigator (PI, Co-PI....):** Pablo Fernández Escámez  
**N° of researchers:** 4  
**Name of the programme:** CICYT  
**Code according to the funding entity:** AGL2010-22206-C02-02 Investigador principal Pablo Salvador Fernández  
**Start-End date:** 01/01/2011 - 31/12/2013  
**Total amount:** 90.750 €
- 6** **Name of the project:** Optimización de las condiciones de procesado mínimo de alimentos garantizando la seguridad microbiológica  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University  
**City of entity:** Cartagena, Region of Murcia, Spain  
**Name principal investigator (PI, Co-PI....):** Paula M. Periago Bayonas  
**N° of researchers:** 4  
**Funding entity or bodies:** Fundación SENECA **Type of entity:** Foundation  
**City funding entity:** Murcia, Region of Murcia, Spain  
**Name of the programme:** Ministerio de Ciencia e Innovación  
**Code according to the funding entity:** AGL2010-22206-C02-02  
**Start-End date:** 01/01/2009 - 31/12/2011 **Duration:** 3 years
- 7** **Name of the project:** Impacto de procesos mínimos, incluyendo PEAI y APH, solas o combinados con calor sobre los mecanismos de resistencia microbiana e implicaciones en la seguridad microbiológica de alimentos líquidos  
**Entity where project took place:** Universidad Politécnica de Cartagena **Type of entity:** University  
**City of entity:** Cartagena, Region of Murcia, Spain  
**Name principal investigator (PI, Co-PI....):** Pablo Fernández Escámez  
**N° of researchers:** 4

**Funding entity or bodies:**

CICyT (Proyecto AGL 2006-13320-C03-02)

**Type of entity:** State agency**City funding entity:** Cartagena, Region of Murcia, Spain**Name of the programme:** CICYT**Code according to the funding entity:** AGL 2006-13320-C03-02**Start-End date:** 01/10/2006 - 30/09/2009**Duration:** 2 years - 11 months - 29 days

- 8 Name of the project:** Evaluación de los riesgos microbiológicos emergentes en alimentos mínimamente procesados, que contengan ingredientes de origen vegetal

**Entity where project took place:** Universidad Politécnica de Cartagena**Type of entity:** University**City of entity:** Cartagena, Region of Murcia, Spain**Name principal investigator (PI, Co-PI....):** Pablo Fernández Escámez**Nº of researchers:** 5**Funding entity or bodies:**

Fundación SENECA (Proyecto 00469/PI/04)

**Type of entity:** Foundation**Start-End date:** 01/01/2005 - 31/12/2007**Duration:** 2 years - 11 months - 30 days

- 9 Name of the project:** Establecimiento de las condiciones de procesamiento de comidas preparadas con tratamiento térmico para garantizar su inocuidad alimentaria, evaluando los límites críticos e incertidumbre asociados

**Name principal investigator (PI, Co-PI....):** Alfredo Palop Gómez INVESTIGADORES PARTICIPANTES: 3**Funding entity or bodies:**

CICyT (Proyecto AGL 2003-00996)

**Start date:** 01/12/2003**Duration:** 2 years - 11 months - 29 days

- 10 Name of the project:** Mejora del potencial saludable de alimentos vegetales frescos precortados: efecto de la adición de antioxidantes y antimicrobianos naturales.

**Name principal investigator (PI, Co-PI....):** M. Pilar Cano Dolado INVESTIGADORES PARTICIPANTES: 6**Funding entity or bodies:**

MCyT (Proyecto AGL-2002-04059-C02-02)

**Start date:** 01/01/2003**Duration:** 2 years - 11 months - 30 days

- 11 Name of the project:** Aplicación de los pulsos eléctricos de alta intensidad (PEAI) para la conservación de zumo fresco de naranja.

**Name principal investigator (PI, Co-PI....):** Alfredo Palop Gómez INVESTIGADORES PARTICIPANTES: 3**Funding entity or bodies:**

CICyT- PETRI (PTR1995-0592-OP-03-02) EMPRESA PARTICIPANTE: J. García Carrión

S.A.

**Start date:** 22/05/2002**Duration:** 1 year - 11 months - 30 days

- 12 Name of the project:** Análisis de datos de inactivación y desarrollo de microorganismos esporulados de interés en la conservación de alimentos mediante distribuciones de frecuencia.

**Name principal investigator (PI, Co-PI....):** Pablo Salvador Fernández Escámez INVESTIGADORES PARTICIPANTES: 3**Funding entity or bodies:**

Fundación SENECA (Proyecto PI-23/00859/FS/01)

**Start date:** 01/01/2002**Duration:** 1 year - 11 months - 30 days



- 13 Name of the project:** Estudios para desarrollar un modelo de valoración a la exposición a nivel de proceso en un alimento mínimamente procesado: huevo líquido.  
**Name principal investigator (PI, Co-PI....):** Martínez López; Antonio INVESTIGADORES  
PARTICIPANTES: 4  
**Funding entity or bodies:**  
Barcelona.  
FEDER-Ministerio de Ciencia y Tecnología EMPRESA PARTICIPANTE: INDUOVO  
S.L.  
**Start date:** 01/2001 **Duration:** 2 years - 11 months
- 14 Name of the project:** Desarrollo de un modelo basado en la aplicación de redes neuronales para predecir la supervivencia y crecimiento de Alicyclobacillus acidoterrestres, Listeria monocytogenes, Yersinia enterocolitica y Escherichia coli en alimentos.  
**Name principal investigator (PI, Co-PI....):** Alfredo Palop Gómez INVESTIGADORES PARTICIPANTES: 4  
**Funding entity or bodies:**  
FEDER-CICyT (Proyecto AGL 2000-0494)  
**Start date:** 2001 **Duration:** 2 years
- 15 Name of the project:** Aplicación de un integrador tiempo-temperatura en la evaluación de condiciones de esterilización para alimentos infantiles.  
**Name principal investigator (PI, Co-PI....):** Pablo Salvador Fernández Escámez INVESTIGADORES PARTICIPANTES: 3  
**Funding entity or bodies:**  
PETRI-CICyT (Proyecto PTR1995-0448-OP-02-02)  
**Start date:** 01/11/2000 **Duration:** 2 years
- 16 Name of the project:** Aplicación de la ionización con electrones acelerados al control microbiológico y parasitológico de alimentos.  
**Name principal investigator (PI, Co-PI....):** Salmerón Menárguez; Cruz INVESTIGADORES PARTICIPANTES: 3  
**Funding entity or bodies:**  
FEDER-CICyT  
**Start date:** 04/1999 **Duration:** 2 years - 8 months
- 17 Name of the project:** Determinación de la seguridad microbiológica de productos refrigerados, mínimamente procesados  
**Name principal investigator (PI, Co-PI....):** Pablo Salvador Fernández Escámez INVESTIGADORES PARTICIPANTES: 3  
**Funding entity or bodies:**  
Generalitat Valenciana  
**Start date:** 1999 **Duration:** 1 year
- 18 Name of the project:** Estudio de las condiciones óptimas del tratamiento con pulsos eléctricos de alta intensidad para la conservación de derivados de frutas y hortalizas.  
**Name principal investigator (PI, Co-PI....):** Cruz Salmerón Menárguez INVESTIGADORES PARTICIPANTES: 3  
**Funding entity or bodies:**  
FEDER-CICyT



**Start date:** 1999

**Duration:** 2 years

**19 Name of the project:** Innovation in Horticultural Products

**Funding entity or bodies:**

European Thematic Network

Programa FAIR de la Comisión Europea (Agro-Industrial Research).

Unión Europea

**Start date:** 06/1998

**Duration:** 2 years - 11 months

**20 Name of the project:** Research on factors allowing a risk assessment of spore-forming pathogenic bacteria in cooked chilled foods containing vegetables.

**Name principal investigator (PI, Co-PI....):** Antonio Martínez López INVESTIGADORES

PARTICIPANTES: 3

**Funding entity or bodies:**

FAIR-CT97-3159

Unión Europea

**Start date:** 1997

**Duration:** 3 years

**21 Name of the project:** Desarrollo de un Plan de Análisis de Riesgos y Control de Puntos Críticos y establecimiento de condiciones óptimas de esterilización para conservas en champiñón y pimiento.

**Name principal investigator (PI, Co-PI....):** Antonio Martínez López

**Funding entity or bodies:**

Comisión Interministerial de Ciencia y Tecnología (CICYT) (PETRI)

**Start date:** 1996

**Duration:** 2 years

**22 Name of the project:** Process Optimization and Minimal Processing of Foods

**Funding entity or bodies:**

Programa Copernicus

Unión Europea

**Start date:** 1995

**Duration:** 2 years

**23 Name of the project:** APLICACION CONJUNTA DE INGREDIENTES NATURALES Y TECNOLOGIAS NO TERMICAS EN LA ESTABILIZACION DE BEBIDAS DE ORIGEN VEGETAL.

**Name principal investigator (PI, Co-PI....):** Pablo S. Fernández Escámez

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Total amount:** 90.750 €

**24 Name of the project:** FINANCIADOS

**25 Name of the project:** VALIDACION DE TRATAMIENTOS TERMICOS SUAVES DE CONSERVACION DE ALIMENTOS: ESTABLECIMIENTO DE LA SEGURIDAD MICROBIOLÓGICA.

**Name principal investigator (PI, Co-PI....):** Pablo S. Fernández Escámez

**Funding entity or bodies:**

Ministerio de Competitividad



**Total amount:** 140.000 €

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

- 1** **Name of the project:** Aplicación de evaluación de riesgos industrial a línea de procesado de sopas frías  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Nº of researchers:** 4  
**Funding entity or bodies:**  
TROPICANA-ALVALLE **Type of entity:** Business  
**City funding entity:** Murcia, Spain  
**Start date:** 07/2017 **Duration:** 6 months
- 2** **Name of the project:** Optimization of sterilization processes  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
Unilever Research and Development  
**City funding entity:** Vlaardingen, Holland  
**Start date:** 01/2010 **Duration:** 2 years

## Results

### Industrial and intellectual property

**Title registered industrial property:** Termorresistómetro para la medida de la resistencia al calor de microorganismos en condiciones controladas de temperatura, capaz de simular condiciones de tratamiento isotérmico y no isotérmico  
**Inventors/authors/obtainers:** Arturo Esnoz Nicuesa; Alfredo Palop Gómez; Pablo Fernández Escámez; Fermín Moreno Clares  
**Entity holder of rights:** Universidad Politécnica de Cartagena  
**Nº of application:** 200302529  
**Country of inscription:** Spain  
**Date of register:** 10/2004



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Alberto Garre; Marta Clemente-Carazo; Pablo S Fernandez; Roland Lindqvist; Jose A. Egea. Bioinactivation FE: A free web application for modelling isothermal and dynamic microbial inactivation. Food Research International. 112, pp. 353 - 360. Elsevier, 01/10/2018.  
**Type of production:** Scientific paper **Format:** Journal
- 2** Alberto Garre; Gerardo González Tejedor; Jose Lucas Peñalver Soto; Pablo S. Fernández; Jose A. Egea. Optimal characterization of thermal microbial inactivation simulating nonisothermal processes. Food Research International. 107, pp. 267 - 274. Elsevier, 16/02/2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 3** Alberto Garre; Juan Pablo Huertas; Gerardo González-Tejedor; Pablo S. Fernández; Jose A. Egea; Alfredo Palop; Arturo Esnoz. Mathematical quantification of the induced stress resistance of microbial populations during non-isothermal stresses. International Journal of Food Microbiology. 266, pp. 133 - 141. Elsevier, 02/02/2018.  
**Type of production:** Scientific paper **Format:** Journal
- 4** Gerardo A. González Tejedor; Alberto Garre; Francisco Artés Hernández; Pablo S Fernandez. Effect of storage conditions in the response of *Listeria monocytogenes* in a fresh purple vegetable Smoothie compared with an acidified TSB medium. Food Microbiology. In press, Elsevier, 10/11/2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 5** 1; Gerardo González Tejedor; Ginés Benito Martínez Hernández; Alberto Garre; Jose A. Egea; Pablo S. Fernández; Francisco Artés Hernández. Quality Changes and Shelf-Life Prediction of a Fresh Fruit and Vegetable Purple Smoothie. Food and Bioprocess Technology. 10, pp. 1892 - 1904. Springer, 01/10/2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 6** W. Messens; P. S. Fernandez Escamez; D. Lees; R Lindqvist; M. O'Mahony; E. Suffredini; J. Cortiñas Abrahantes; E. Chantzis; K. Koutsoumanis. Thermal processing of live bivalve molluscs for controlling viruses: on the need for a risk-based design. Critical Reviews in Food Science and Nutrition. pp. <https://doi.org/10.1080/10408398.2017.1338246>. 30/06/2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 7** J. D. Reverte Orts; J.L. Pedreño Molina; P. S. Fernandez; A.J. Lozano Guerrero; P.M. Periago; A. Diaz Morcillo. A Novel Technique for Sterilization Using a Power Self-Regulated Single-Mode Microwave Cavity. Sensors. 17 - 1309, 07/06/2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes





- 8** Garre, Alberto; Fernandez, Pablo S.; Lindqvist, Roland; Egea, Jose A. Bioinactivation: Software for modelling dynamic microbial inactivation. FOOD RESEARCH INTERNATIONAL. 93, pp. 66 - 74. ELSEVIER SCIENCE BV, 01/03/2017. ISSN 0963-9969, ISSN 1873-7145  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 1
- 9** Cattani, F.; Dolan, K. D.; Oliveira, S. D.; Mishra, D. K.; Ferreira, C. A. S.; Periago, P. M.; Aznar, A.; Fernandez, P. S.; Valdramidis, V. P. One-step global parameter estimation of kinetic inactivation parameters for Bacillus sporothermodurans spores under static and dynamic thermal processes. FOOD RESEARCH INTERNATIONAL. 89, pp. 614 - 619. ELSEVIER SCIENCE BV, 01/11/2016. ISSN 0963-9969, ISSN 1873-7145  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Impact index in year of publication:** 3.086 **Journal in the top 25%:** Yes  
**Position of publication:** 21 **No. of journals in the cat.:** 129  
**Source of citations:** WOS **Citations:** 1
- 10** Huertas, Juan-Pablo; Aznar, Arantxa; Esnoz, Arturo; Fernandez, Pablo S.; Iguaz, Asuncion; Periago, Paula M.; Palop, Alfredo. High Heating Rates Affect Greatly the Inactivation Rate of Escherichia coli. Frontiers in Microbiology. 7, FRONTIERS MEDIA SA, 11/08/2016. ISSN 1664-302X  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MICROBIOLOGY  
**Impact index in year of publication:** 4.076 **Journal in the top 25%:** Yes  
**Position of publication:** 25 **No. of journals in the cat.:** 124  
**Source of citations:** WOS **Citations:** 2
- 11** Aznar, Arantxa; Fernandez, Pablo S.; Periago, Paula M.; Palop, Alfredo. Antimicrobial activity of nisin, thymol, carvacrol and cymene against growth of Candida lusitanae. FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. 21 - 1, pp. 72 - 79. SAGE PUBLICATIONS LTD, 01/01/2015. ISSN 1082-0132, ISSN 1532-1738  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, APPLIED  
**Impact index in year of publication:** 0.991 **Journal in the top 25%:** No  
**Position of publication:** 49 **No. of journals in the cat.:** 72  
**Impact source:** ISI **Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Impact index in year of publication:** 0.991 **Journal in the top 25%:** No  
**Position of publication:** 75 **No. of journals in the cat.:** 125  
**Source of citations:** WOS **Citations:** 4
- 12** Antolinos, Vera; Esteban, Maria-Dolores; Ros-Chumillas, Maria; Huertas, Juan-Pablo; Periago, Paula M.; Palop, Alfredo; Fernandez, Pablo S. Assessment of the of acid shock effect on viability of Bacillus cereus and Bacillus weihenstephanensis using flow cytometry. FOOD RESEARCH INTERNATIONAL. 66, pp. 306 - 312. ELSEVIER SCIENCE BV, 01/12/2014. ISSN 0963-9969, ISSN 1873-7145  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Impact index in year of publication:** 2.818 **Journal in the top 25%:** Yes



**Position of publication:** 15**No. of journals in the cat.:** 123**Source of citations:** WOS**Citations:** 3

- 13** Esteban, Maria-Dolores; Aznar, Arantxa; Fernandez, Pablo S.; Palop, Alfredo. Combined effect of nisin, carvacrol and a previous thermal treatment on the growth of Salmonella enteritidis and Salmonella senftenberg. FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. 19 - 4, pp. 357 - 364. SAGE PUBLICATIONS LTD, 01/08/2013. ISSN 1082-0132

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - CHEMISTRY, APPLIED**Impact index in year of publication:** 0.981**Journal in the top 25%:** No**Position of publication:** 48**No. of journals in the cat.:** 71**Impact source:** ISI**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Impact index in year of publication:** 0.981**Journal in the top 25%:** No**Position of publication:** 71**No. of journals in the cat.:** 123**Source of citations:** WOS**Citations:** 6

- 14** Esteban, Maria-Dolores; Huertas, Juan-Pablo; Fernandez, Pablo S.; Palop, Alfredo. Effect of the medium characteristics and the heating and cooling rates on the nonisothermal heat resistance of Bacillus sporothermodurans IC4 spores. FOOD MICROBIOLOGY. 34 - 1, pp. 158 - 163. ACADEMIC PRESS LTD-ELSEVIER SCIENCE LTD, 01/05/2013. ISSN 0740-0020

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - MICROBIOLOGY**Impact index in year of publication:** 3.374**Journal in the top 25%:** No**Position of publication:** 32**No. of journals in the cat.:** 119**Impact source:** ISI**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY**Impact index in year of publication:** 3.374**Journal in the top 25%:** No**Position of publication:** 42**No. of journals in the cat.:** 165**Impact source:** ISI**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Impact index in year of publication:** 3.374**Journal in the top 25%:** Yes**Position of publication:** 8**No. of journals in the cat.:** 123**Source of citations:** WOS**Citations:** 18

- 15** Munoz-Cuevas, Marina; Guevara, Leymaya; Aznar, Arantxa; Martinez, Antonio; Periago, Paula M.; Fernandez, Pablo S. Characterisation of the resistance and the growth variability of Listeria monocytogenes after high hydrostatic pressure treatments. FOOD CONTROL. 29 - 2, pp. 409 - 415. ELSEVIER SCI LTD, 01/02/2013. ISSN 0956-7135

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Impact index in year of publication:** 2.819**Journal in the top 25%:** Yes**Position of publication:** 17**No. of journals in the cat.:** 123**Source of citations:** WOS**Citations:** 9

- 16** Antolinos, Vera; Fernandez, Pablo S.; Ros-Chumillas, Maria; Periago, Paula M.; Weiss, Julia. Development of a High-Resolution Melting-Based Approach for Efficient Differentiation Among Bacillus cereus Group Isolates. *FOODBORNE PATHOGENS AND DISEASE*. 9 - 9, pp. 777 - 785. MARY ANN LIEBERT INC, 01/09/2012. ISSN 1535-3141
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.283  
**Position of publication:** 28  
**Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 124  
**Citations:** 2
- 17** Antolinos, V.; Munoz-Cuevas, M.; Ros-Chumillas, M.; Periago, P. M.; Fernandez, P. S.; Le Marc, Y. Modelling the effects of temperature and osmotic shifts on the growth kinetics of Bacillus weihenstephanensis in broth and food products. *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. 158 - 1, pp. 36 - 41. ELSEVIER SCIENCE BV, 01/08/2012. ISSN 0168-1605
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.425  
**Position of publication:** 34  
**Impact source:** ISI  
**Impact index in year of publication:** 3.425  
**Position of publication:** 8  
**Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 116  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 124  
**Citations:** 3
- 18** Lopez, Maria-Dolores; Garcia, Presentacion; Munoz-Cuevas, Marina; Fernandez, Pablo S.; Palop, Alfredo. Thermal inactivation of Alicyclobacillus acidoterrestris spores under conditions simulating industrial heating processes of tangerine vesicles and its use in time temperature integrators. *EUROPEAN FOOD RESEARCH AND TECHNOLOGY*. 232 - 5, pp. 821 - 827. SPRINGER, 01/05/2011. ISSN 1438-2377
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.566  
**Position of publication:** 47  
**Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 128  
**Citations:** 6
- 19** Antolinos, Vera; Munoz, Marina; Ros-Chumillas, Maria; Aznar, Arantxa; Periago, Paula M.; Fernandez, Pablo S. Combined effect of lysozyme and nisin at different incubation temperature and mild heat treatment on the probability of time to growth of Bacillus cereus. *FOOD MICROBIOLOGY*. 28 - 2, pp. 305 - 310. ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD, 01/04/2011. ISSN 0740-0020
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.283  
**Position of publication:** 10  
**Impact source:** ISI  
**Impact index in year of publication:** 3.283  
**Position of publication:** 37
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 128  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 114



**Impact source:** ISI

**Impact index in year of publication:** 3.283

**Position of publication:** 42

**Source of citations:** WOS

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

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

**No. of journals in the cat.:** 158

**Citations:** 5

- 20** Guevara, Leymaya; Martinez, Antonio; Fernandez, Pablo S.; Munoz-Cuevas, Marina. Comparison of Probabilistic and Deterministic Predictions of Time to Growth of *Listeria monocytogenes* as Affected by pH and Temperature in Food. *FOODBORNE PATHOGENS AND DISEASE*. 8 - 1, pp. 141 - 148. MARY ANN LIEBERT INC, 01/01/2011. ISSN 1535-3141

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.26

**Position of publication:** 27

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

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

**No. of journals in the cat.:** 128

**Citations:** 1

- 21** van Zuijlen, Andre; Periago, Paula M.; Amezquita, Alejandro; Palop, Alfredo; Brul, Stanley; Fernandez, Pablo S. Characterization of *Bacillus sporothermodurans* IC4 spores; putative indicator microorganism for optimisation of thermal processes in food sterilisation. *FOOD RESEARCH INTERNATIONAL*. 43 - 7, pp. 1895 - 1901. ELSEVIER SCIENCE BV, 01/08/2010. ISSN 0963-9969

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.416

**Position of publication:** 20

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

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

**No. of journals in the cat.:** 128

**Citations:** 17

- 22** Munoz, Marina; Guevara, Leymaya; Palop, Alfredo; Fernandez, Pablo S. Prediction of time to growth of *Listeria monocytogenes* using Monte Carlo simulation or regression analysis, influenced by sublethal heat and recovery conditions. *FOOD MICROBIOLOGY*. 27 - 4, pp. 468 - 475. ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD, 01/06/2010. ISSN 0740-0020

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.32

**Position of publication:** 30

**Impact source:** ISI

**Impact index in year of publication:** 3.32

**Position of publication:** 40

**Impact source:** ISI

**Impact index in year of publication:** 3.32

**Position of publication:** 6

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - MICROBIOLOGY

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

**No. of journals in the cat.:** 107

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

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

**No. of journals in the cat.:** 160

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

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

**No. of journals in the cat.:** 128

**Citations:** 7



- 23** Munoz-Cuevas, Marina; Fernandez, Pablo S.; George, Susan; Pin, Carmen. Modeling the Lag Period and Exponential Growth of *Listeria monocytogenes* under Conditions of Fluctuating Temperature and Water Activity Values. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. 76 - 9, pp. 2908 - 2915. AMER SOC MICROBIOLOGY, 01/05/2010. ISSN 0099-2240
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.778  
**Position of publication:** 24
- Format:** Journal  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 107
- Impact source:** ISI  
**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY  
**Impact index in year of publication:** 3.778  
**Journal in the top 25%:** Yes  
**Position of publication:** 32  
**No. of journals in the cat.:** 160
- Source of citations:** WOS  
**Citations:** 16
- 24** Conesa, R.; Andreu, S.; Fernandez, P. S.; Esnoz, A.; Palop, A. Nonisothermal heat resistance determinations with the thermoresistometer Mastia. *JOURNAL OF APPLIED MICROBIOLOGY*. 107 - 2, pp. 506 - 513. WILEY-BLACKWELL PUBLISHING, INC, 01/08/2009. ISSN 1364-5072
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.098  
**Position of publication:** 58
- Format:** Journal  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 95
- Impact source:** ISI  
**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY  
**Impact index in year of publication:** 2.098  
**Journal in the top 25%:** No  
**Position of publication:** 70  
**No. of journals in the cat.:** 152
- Source of citations:** WOS  
**Citations:** 26
- 25** Lopez-Gomez, A.; Fernandez, P. S.; Palop, A.; Periago, P. M.; Martinez-Lopez, A.; Marin-Iniesta, F.; Barbosa-Canovas, G. V. Food Safety Engineering: An Emergent Perspective. *FOOD ENGINEERING REVIEWS*. 1 - 1, pp. 84 - 104. SPRINGER, 01/06/2009. ISSN 1866-7910, ISSN 1866-7929
- Type of production:** Scientific paper  
**Source of citations:** WOS
- Format:** Journal  
**Citations:** 18
- 26** Munoz, M.; Guevara, L.; Palop, A.; Tabera, J.; Fernandez, P. S. Determination of the effect of plant essential oils obtained by supercritical fluid extraction on the growth and viability of *Listeria monocytogenes* in broth and food systems using flow cytometry. *LWT-FOOD SCIENCE AND TECHNOLOGY*. 42 - 1, pp. 220 - 227. ELSEVIER SCIENCE BV, 01/01/2009. ISSN 0023-6438
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.114  
**Position of publication:** 22
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 118
- Source of citations:** WOS  
**Citations:** 19
- 27** Selma, MV; Salmeron, MC; Valero, M; Fernandez, PS. Efficacy of pulsed electric fields for *Listeria monocytogenes* inactivation and control in horchata. *JOURNAL OF FOOD SAFETY*. 26 - 2, pp. 137 - 149. BLACKWELL PUBLISHING, 01/05/2006. ISSN 0149-6085
- Type of production:** Scientific paper  
**Format:** Journal

**Impact source:** ISI**Impact index in year of publication:** 0.565**Position of publication:** 117**Impact source:** ISI**Impact index in year of publication:** 0.565**Position of publication:** 63**Source of citations:** WOS**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 140**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 96**Citations:** 9

- 28** Periago, PM; Conesa, R; Delgado, B; Fernandez, PS; Palop, A. Bacillus megaterium spore germination and growth inhibition by a treatment combining heat with natural antimicrobials. FOOD TECHNOLOGY AND BIOTECHNOLOGY. 44 - 1, pp. 17 - 23. FACULTY FOOD TECHNOLOGY BIOTECHNOLOGY, 01/01/2006. ISSN 1330-9862

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 0.789**Position of publication:** 111**Impact source:** ISI**Impact index in year of publication:** 0.789**Position of publication:** 52**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 140**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 96**Citations:** 19

- 29** Martinez, A; Rodrigo, D; Fernandez, PS; Ocio, MJ. Time-temperature integrators for thermal process evaluation. THERMAL FOOD PROCESSING: NEW TECHNOLOGIES AND QUALITY ISSUES. 150, pp. 597 - 620. CRC PRESS-TAYLOR & FRANCIS GROUP, 01/01/2006. ISSN 0950-9623

**Type of production:** Scientific paper**Source of citations:** WOS**Format:** Journal**Citations:** 0

- 30** Selma, MV; Salmeron, MC; Valero, M; Fernandez, PS. Control of Lactobacillus plantarum and Escherichia coli by pulsed electric fields in MRS Broth, Nutrient Broth and orange-carrot juice. FOOD MICROBIOLOGY. 21 - 5, pp. 519 - 525. ACADEMIC PRESS LTD ELSEVIER SCIENCE LTD, 01/10/2004. ISSN 0740-0020

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 1.105**Position of publication:** 27**Impact source:** ISI**Impact index in year of publication:** 1.105**Position of publication:** 64**Impact source:** ISI**Impact index in year of publication:** 1.105**Position of publication:** 78**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 94**Category:** Science Edition - MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 84**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 133**Citations:** 26



- 31** Periago, PM; van Zuijlen, A; Fernandez, PS; Klapwijk, PM; ter Steeg, PF; Corradini, MG; Peleg, M. Estimation of the non-isothermal inactivation patterns of *Bacillus sporothermodurans* IC4 spores in soups from their isothermal survival data. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 95 - 2, pp. 205 - 218. ELSEVIER SCIENCE BV, 01/09/2004. ISSN 0168-1605
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.49  
**Position of publication:** 29
- Format:** Journal  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 84
- Impact source:** ISI  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Impact index in year of publication:** 2.49  
**Journal in the top 25%:** Yes  
**Position of publication:** 4  
**No. of journals in the cat.:** 94
- Source of citations:** WOS  
**Citations:** 38
- 32** Periago, PM; Delgado, B; Fernandez, PS; Palop, A. Use of carvacrol and cymene to control growth and viability of *Listeria monocytogenes* cells and predictions of survivors using frequency distribution functions. JOURNAL OF FOOD PROTECTION. 67 - 7, pp. 1408 - 1416. INT ASSOC FOOD PROTECTION, 01/07/2004. ISSN 0362-028X
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Format:** Journal  
**Impact index in year of publication:** 1.874  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Position of publication:** 10  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 94
- Impact source:** ISI  
**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY  
**Impact index in year of publication:** 1.874  
**Journal in the top 25%:** No  
**Position of publication:** 50  
**No. of journals in the cat.:** 133
- Source of citations:** WOS  
**Citations:** 29
- 33** Delgado, B; Fernandez, PS; Palop, A; Periago, PM. Effect of thymol and cymene on *Bacillus cereus* vegetative cells evaluated through the use of frequency distributions. FOOD MICROBIOLOGY. 21 - 3, pp. 327 - 334. ACADEMIC PRESS LTD ELSEVIER SCIENCE LTD, 01/06/2004. ISSN 0740-0020
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Format:** Journal  
**Impact index in year of publication:** 1.105  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Position of publication:** 27  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 94
- Impact source:** ISI  
**Category:** Science Edition - MICROBIOLOGY  
**Impact index in year of publication:** 1.105  
**Journal in the top 25%:** No  
**Position of publication:** 64  
**No. of journals in the cat.:** 84
- Impact source:** ISI  
**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY  
**Impact index in year of publication:** 1.105  
**Journal in the top 25%:** No  
**Position of publication:** 78  
**No. of journals in the cat.:** 133
- Source of citations:** WOS  
**Citations:** 40

- 34** Delgado, B; Palop, A; Fernandez, PS; Periago, PM. Combined effect of thymol and cymene to control the growth of *Bacillus cereus* vegetative cells. EUROPEAN FOOD RESEARCH AND TECHNOLOGY. 218 - 2, pp. 188 - 193. SPRINGER-VERLAG, 01/01/2004. ISSN 1438-2377
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.084  
**Position of publication:** 28  
**Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 94  
**Citations:** 22
- 35** Valero, M; Fernandez, PS; Salmeron, MC. Influence of pH and temperature on growth of *Bacillus cereus* in vegetable substrates. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 82 - 1, pp. 71 - 79. ELSEVIER SCIENCE BV, 15/04/2003. ISSN 0168-1605
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.261  
**Position of publication:** 2  
**Impact source:** ISI  
**Impact index in year of publication:** 2.261  
**Position of publication:** 30  
**Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 94  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 84  
**Citations:** 40
- 36** Selma, MV; Fernandez, PS; Valero, M; Salmeron, MC. Control of *Enterobacter aerogenes* by high-intensity, pulsed electric fields in horchata, a Spanish low-acid vegetable beverage. FOOD MICROBIOLOGY. 20 - 1, pp. 105 - 110. ACADEMIC PRESS LTD ELSEVIER SCIENCE LTD, 01/02/2003. ISSN 0740-0020
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.049  
**Position of publication:** 26  
**Impact source:** ISI  
**Impact index in year of publication:** 1.049  
**Position of publication:** 63  
**Impact source:** ISI  
**Impact index in year of publication:** 1.049  
**Position of publication:** 76  
**Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 94  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 84  
**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 132  
**Citations:** 24
- 37** Valero, M; Hernandez-Herrero, LA; Fernandez, PS; Salmeron, MC. Characterization of *Bacillus cereus* isolates from fresh vegetables and refrigerated minimally processed foods by biochemical and physiological tests. FOOD MICROBIOLOGY. 19 - 5, pp. 491 - 499. ACADEMIC PRESS LTD ELSEVIER SCIENCE LTD, 01/10/2002. ISSN 0740-0020
- Type of production:** Scientific paper  
**Impact source:** ISI
- Format:** Journal  
**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY





**Impact index in year of publication:** 0.953  
**Position of publication:** 31

**Impact source:** ISI  
**Impact index in year of publication:** 0.953  
**Position of publication:** 62

**Impact source:** ISI

**Impact index in year of publication:** 0.953  
**Position of publication:** 75

**Source of citations:** WOS

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 92

**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 82

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 131

**Citations:** 52

- 38** Periago, PM; Palop, A; Fernandez, PS. Combined effect of nisin, carvacrol and thymol on the viability of *Bacillus cereus* heat-treated vegetative cells. FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. 7 - 6, pp. 487 - 492. SAGE PUBLICATIONS LTD, 01/12/2001. ISSN 1082-0132

**Type of production:** Scientific paper

**Impact source:** ISI  
**Impact index in year of publication:** 0.324  
**Position of publication:** 44

**Impact source:** ISI

**Impact index in year of publication:** 0.324  
**Position of publication:** 76

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, APPLIED  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 58

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 94

**Citations:** 40

- 39** Fernandez, PS; Baranyi, J; Peck, MW. A predictive model of growth from spores of non-proteolytic *Clostridium botulinum* in the presence of different CO<sub>2</sub> concentrations as influenced by chill temperature, pH and NaCl. FOOD MICROBIOLOGY. 18 - 4, pp. 453 - 461. ACADEMIC PRESS LTD, 01/08/2001. ISSN 0740-0020

**Type of production:** Scientific paper

**Impact source:** ISI  
**Impact index in year of publication:** 1.135  
**Position of publication:** 24

**Impact source:** ISI  
**Impact index in year of publication:** 1.135  
**Position of publication:** 55

**Impact source:** ISI

**Impact index in year of publication:** 1.135  
**Position of publication:** 63

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 94

**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 81

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 131

**Citations:** 18

- 40** Fernandez, A; Ocio, MJ; Fernandez, PS; Martinez, A. Effect of heat activation and inactivation conditions on germination and thermal resistance parameters of *Bacillus cereus* spores. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 63 - 3, pp. 257 - 264. ELSEVIER SCIENCE BV, 15/02/2001. ISSN 0168-1605

**Type of production:** Scientific paper

**Impact source:** ISI

**Format:** Journal

**Category:** Science Edition - MICROBIOLOGY



**Impact index in year of publication:** 1.579  
**Position of publication:** 42

**Impact source:** ISI

**Impact index in year of publication:** 1.579  
**Position of publication:** 8

**Source of citations:** WOS

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 81

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 94

**Citations:** 25

- 41** Valero, M; Leontidis, S; Fernandez, PS; Martinez, A; Salmeron, MC. Growth of Bacillus cereus in natural and acidified carrot substrates over the temperature range 5-30 degrees C. FOOD MICROBIOLOGY. 17 - 6, pp. 605 - 612. ACADEMIC PRESS LTD, 01/12/2000. ISSN 0740-0020

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.272  
**Position of publication:** 16

**Impact source:** ISI

**Impact index in year of publication:** 1.272  
**Position of publication:** 47

**Impact source:** ISI

**Impact index in year of publication:** 1.272  
**Position of publication:** 56

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 95

**Category:** Science Edition - MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 83

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 134

**Citations:** 36

- 42** Fernandez, A; Ocio, MJ; Fernandez, PS; Rodrigo, M; Martinez, A. Application of nonlinear regression analysis to the estimation of kinetic parameters for two enterotoxigenic strains of Bacillus cereus spores. FOOD MICROBIOLOGY. 16 - 6, pp. 607 - 613. ACADEMIC PRESS LTD, 01/12/1999. ISSN 0740-0020

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.188  
**Position of publication:** 17

**Impact source:** ISI

**Impact index in year of publication:** 1.188  
**Position of publication:** 44

**Impact source:** ISI

**Impact index in year of publication:** 1.188  
**Position of publication:** 50

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 91

**Category:** Science Edition - MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 79

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 124

**Citations:** 33

- 43** Rodrigo, F; Rodrigo, C; Fernandez, PS; Rodrigo, M; Martinez, A. Effect of acidification and oil on the thermal resistance of Bacillus stearothermophilus spores heated in food substrate. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 52 - 3, pp. 197 - 201. ELSEVIER SCIENCE BV, 15/11/1999. ISSN 0168-1605

**Type of production:** Scientific paper

**Format:** Journal



**Impact source:** ISI  
**Impact index in year of publication:** 1.673  
**Position of publication:** 30

**Impact source:** ISI  
**Impact index in year of publication:** 1.673  
**Position of publication:** 6

**Source of citations:** WOS

**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 79

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 91

**Citations:** 13

- 44** Fernandez, PS; Peck, MW. A predictive model that describes the effect of prolonged heating at 70 to 90 degrees C and subsequent incubation at refrigeration temperatures on growth from spores and toxigenesis by nonproteolytic *Clostridium botulinum* in the presence of lysozyme. APPLIED AND ENVIRONMENTAL MICROBIOLOGY. 65 - 8, pp. 3449 - 3457. AMER SOC MICROBIOLOGY, 01/08/1999. ISSN 0099-2240

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.541  
**Position of publication:** 11

**Impact source:** ISI  
**Impact index in year of publication:** 3.541  
**Position of publication:** 11

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 124

**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 79

**Citations:** 33

- 45** Leontidis, S; Fernandez, A; Rodrigo, C; Fernandez, PS; Magraner, L; Martinez, A. Thermal inactivation kinetics of *Bacillus stearothermophilus* spores using a linear temperature program. JOURNAL OF FOOD PROTECTION. 62 - 8, pp. 958 - 961. INT ASSOC MILK FOOD ENVIRONMENTAL SANITARIANS, INC, 01/08/1999. ISSN 0362-028X

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.415  
**Position of publication:** 10

**Impact source:** ISI  
**Impact index in year of publication:** 1.415  
**Position of publication:** 44

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 91

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 124

**Citations:** 6

- 46** Fernandez, A; Salmeron, C; Fernandez, PS; Martinez, A. Application of a frequency distribution model to describe the thermal inactivation of two strains of *Bacillus cereus*. TRENDS IN FOOD SCIENCE & TECHNOLOGY. 10 - 4-5, pp. 158 - 162. ELSEVIER SCIENCE LONDON, 01/04/1999. ISSN 0924-2244

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.09  
**Position of publication:** 3

**Source of citations:** WOS

**Format:** Journal

**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 91

**Citations:** 83



- 47** Akterian, SG; Fernandez, PS; Hendrickx, ME; Tobback, PP; Periago, PM; Martinez, A. Risk analysis of the thermal sterilization process. Analysis of factors affecting the thermal resistance of microorganisms. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 47 - 1-2, pp. 51 - 57. ELSEVIER SCIENCE BV, 01/03/1999. ISSN 0168-1605
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.673  
**Position of publication:** 30
- Impact source:** ISI  
**Impact index in year of publication:** 1.673  
**Position of publication:** 6
- Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 79
- Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 91  
**Citations:** 9
- 48** Periago, PM; Leontidis, S; Fernandez, PS; Rodrigo, C; Martinez, A. Note. Kinetic parameters of Bacillus stearothermophilus spores under isothermal and non-isothermal heating conditions. FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. 4 - 6, pp. 443 - 447. ASPEN PUBL INC, 01/12/1998. ISSN 1082-0132
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.024  
**Position of publication:** 15
- Impact source:** ISI  
**Impact index in year of publication:** 1.024  
**Position of publication:** 24
- Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - CHEMISTRY, APPLIED  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 47
- Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 90  
**Citations:** 12
- 49** Periago, PM; Fernandez, PS; Salmeron, MC; Martinez, A. Predictive model to describe the combined effect of pH and NaCl on apparent heat resistance of Bacillus stearothermophilus. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 44 - 1-2, pp. 21 - 30. ELSEVIER SCIENCE BV, 20/10/1998. ISSN 0168-1605
- Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.593  
**Position of publication:** 32
- Impact source:** ISI  
**Impact index in year of publication:** 1.593  
**Position of publication:** 5
- Source of citations:** WOS
- Format:** Journal  
**Category:** Science Edition - MICROBIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 81
- Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 90  
**Citations:** 16
- 50** Periago, PM; Fernandez, PS; Ocio, MJ; Martinez, A. A predictive model to describe sensitization of heat-treated Bacillus stearothermophilus spores to NaCl. ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG A-FOOD RESEARCH AND TECHNOLOGY. 206 - 1, pp. 58 - 62. SPRINGER VERLAG, 01/01/1998. ISSN 1431-4630
- Type of production:** Scientific paper  
**Impact source:** ISI
- Format:** Journal

**Impact index in year of publication:** 0.793**Position of publication:** 36**Source of citations:** WOS**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 90**Citations:** 5

- 51** Periago, PM; Fernandez, PS; Ocio, MJ; Martinez, A. Apparent thermal resistance of *Bacillus stearothermophilus* spores recovered under anaerobic conditions. ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG A-FOOD RESEARCH AND TECHNOLOGY. 206 - 1, pp. 63 - 67. SPRINGER VERLAG, 01/01/1998. ISSN 1431-4630

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 0.793**Position of publication:** 36**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 90**Citations:** 13

- 52** Pretel, MT; Fernandez, PS; Martinez, A; Romojaro, F. Modelling design of cuts for enzymatic peeling of mandarin and optimization of different parameters of the process. ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG A-FOOD RESEARCH AND TECHNOLOGY. 207 - 4, pp. 322 - 327. SPRINGER VERLAG, 01/01/1998. ISSN 1431-4630

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 0.793**Position of publication:** 36**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 90**Citations:** 8

- 53** Pretel, MT; Fernandez, PS; Romojaro, F; Martinez, A. The effect of modified atmosphere packaging on 'ready-to-eat' oranges. FOOD SCIENCE AND TECHNOLOGY-LEBENSMITTEL-WISSENSCHAFT & TECHNOLOGIE. 31 - 4, pp. 322 - 328. ACADEMIC PRESS LTD, 01/01/1998. ISSN 0023-6438

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 0.563**Position of publication:** 48**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 90**Citations:** 40

- 54** Fernandez, PS; Peck, MW. Predictive model describing the effect of prolonged heating at 70 to 80 degrees C and incubation at refrigeration temperatures on growth and toxigenesis by nonproteolytic *Clostridium botulinum*. JOURNAL OF FOOD PROTECTION. 60 - 9, pp. 1064 - 1071. INT ASSOC MILK FOOD ENVIRONMENTAL SANITARIANS, INC, 01/09/1997. ISSN 0362-028X

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 1.288**Position of publication:** 10**Impact source:** ISI**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 87



**Impact index in year of publication:** 1.288**Position of publication:** 41**Source of citations:** WOS**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 94**Citations:** 33

- 55** Fernandez, PS; George, SM; Sills, CC; Peck, MW. Predictive model of the effect of CO<sub>2</sub>, pH, temperature and NaCl on the growth of *Listeria monocytogenes*. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 37 - 1, pp. 37 - 45. ELSEVIER SCIENCE BV, 17/06/1997. ISSN 0168-1605

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 1.16**Position of publication:** 16**Impact source:** ISI**Impact index in year of publication:** 1.16**Position of publication:** 39**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 87**Category:** Science Edition - MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 73**Citations:** 88

- 56** Rodrigo, F; Fernandez, PS; Rodrigo, M; Ocio, MJ; Martinez, A. Thermal resistance of *Bacillus stearothermophilus* heated at high temperatures in different substrates. JOURNAL OF FOOD PROTECTION. 60 - 2, pp. 144 - 147. INT ASSOC MILK FOOD ENVIRONMENTAL SANITARIANS, INC, 01/02/1997. ISSN 0362-028X

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 1.288**Position of publication:** 10**Impact source:** ISI**Impact index in year of publication:** 1.288**Position of publication:** 41**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 87**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 94**Citations:** 9

- 57** Ocio, MJ; Fernandez, PS; Rodrigo, M; Periago, P; Martinez, A. A time temperature integrator for particulated foods: thermal process evaluation. ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG A-FOOD RESEARCH AND TECHNOLOGY. 205 - 4, pp. 325 - 328. SPRINGER VERLAG, 01/01/1997. ISSN 1431-4630

**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 0.967**Position of publication:** 24**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - FOOD SCIENCE & TECHNOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 87**Citations:** 10



- 58** Fernandez, PS; Ocio, MJ; Rodrigo, F; Rodrigo, M; Martinez, A. Mathematical model for the combined effect of temperature and pH on the thermal resistance of *Bacillus stearothermophilus* and *Clostridium sporogenes* spores. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 32 - 1-2, pp. 225 - 233. ELSEVIER SCIENCE BV, 01/09/1996. ISSN 0168-1605  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 25
- 59** Patchett, RA; Watson, N; Fernandez, PS; Kroll, RG. The effect of temperature and growth rate on the susceptibility of *Listeria monocytogenes* to environmental stress conditions. LETTERS IN APPLIED MICROBIOLOGY. 22 - 2, pp. 121 - 124. BLACKWELL SCIENCE LTD, 01/02/1996. ISSN 0266-8254  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 27
- 60** PECK, MW; FERNANDEZ, PS. EFFECT OF LYSOZYME CONCENTRATION, HEATING AT 90-DEGREES-C, AND THEN INCUBATION AT CHILLED TEMPERATURES ON GROWTH FROM SPORES OF NONPROTEOLYTIC CLOSTRIDIUM-BOTULINUM. LETTERS IN APPLIED MICROBIOLOGY. 21 - 1, pp. 50 - 54. WILEY-BLACKWELL, 01/07/1995. ISSN 0266-8254  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 29
- 61** FERNANDEZ, PS; GOMEZ, FJ; OCIO, MJ; RODRIGO, M; SANCHEZ, T; MARTINEZ, A. D VALUES OF BACILLUS-STEARTHERMOPHILUS SPORES AS A FUNCTION OF PH AND RECOVERY MEDIUM ACIDULANT. JOURNAL OF FOOD PROTECTION. 58 - 6, pp. 628 - 632. INT ASSOC MILK FOOD ENVIRONMENTAL SANITARIANS, INC, 01/06/1995. ISSN 0362-028X  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 14
- 62** FERNANDEZ, PS; GOMEZ, FJ; OCIO, MJ; SANCHEZ, T; RODRIGO, M; MARTINEZ, A. INFLUENCE OF ACIDIFICATION AND TYPE OF ACIDULANT OF THE RECOVERY MEDIUM ON BACILLUS-STEARTHERMOPHILUS SPORE COUNTS. LETTERS IN APPLIED MICROBIOLOGY. 19 - 3, pp. 146 - 148. BLACKWELL SCIENCE LTD, 01/09/1994. ISSN 0266-8254  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 9
- 63** OCIO, MJ; FERNANDEZ, PS; ALVARRUIZ, A; MARTINEZ, A. COMPARISON OF TDT AND ARRHENIUS MODELS FOR RATE-CONSTANT INACTIVATION PREDICTIONS OF BACILLUS-STEARTHERMOPHILUS HEATED IN MUSHROOM-ALGINATE SUBSTRATE. LETTERS IN APPLIED MICROBIOLOGY. 19 - 2, pp. 114 - 117. BLACKWELL SCIENCE LTD, 01/08/1994. ISSN 0266-8254  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 4
- 64** FERNANDEZ, PS; OCIO, MJ; MARTINEZ, A. RELATION BETWEEN THERMAL-RESISTANCE AND DPA CONTENT IN VARIANTS OF THE SAME STRAINS OF BACILLUS-STEARTHERMOPHILUS SPORES. LETTERS IN APPLIED MICROBIOLOGY. 19 - 2, pp. 118 - 120. BLACKWELL SCIENCE LTD, 01/08/1994. ISSN 0266-8254  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 2





- 65** OCIO, MJ; SANCHEZ, T; FERNANDEZ, PS; RODRIGO, M; MARTINEZ, A. THERMAL-RESISTANCE CHARACTERISTICS OF PA-3679 IN THE TEMPERATURE-RANGE OF 110-121-DEGREES-C AS AFFECTED BY PH, TYPE OF ACIDULANT AND SUBSTRATE. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 22 - 4, pp. 239 - 247. ELSEVIER SCIENCE BV, 01/06/1994. ISSN 0168-1605  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 39
- 66** FERNANDEZ, PS; OCIO, MJ; SANCHEZ, T; MARTINEZ, A. THERMAL-RESISTANCE OF BACILLUS-STEAROTHERMOPHILUS SPORES HEATED IN ACIDIFIED MUSHROOM EXTRACT. JOURNAL OF FOOD PROTECTION. 57 - 1, pp. 37 - 41. INT ASSOC MILK FOOD ENVIRONMENTAL SANITARIANS, INC, 01/01/1994. ISSN 0362-028X  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** WOS **Citations:** 39

### Works submitted to national or international conferences

- 1** **Title of the work:** Aplicación de la microbiología predictiva en la evaluación de riesgos biológicos en EFSA  
**Name of the conference:** XXI Congreso Nacional de Microbiología de Alimentos  
**Corresponding author:** Yes  
**City of event:** Tarragona, Spain  
**Date of event:** 19/09/2018  
**Organising entity:** SOCIEDAD ESPAÑOLA DE MICROBIOLOGIA  
Pablo S Fernandez; Alberto Garre; Antonio Martínez.
- 2** **Title of the work:** Aplicación del análisis de riesgos en la Unión Europea.  
**Name of the conference:** Taller Internacional de Análisis de Riesgos  
**Corresponding author:** Yes  
**City of event:** Buenos Aires, Argentina  
**Date of event:** 06/06/2018  
**Organising entity:** Consejo Nacional de Investigaciones Científicas y Técnicas  
Pablo S. Fernandez. **Type of entity:** Consejo de Investigación
- 3** **Title of the work:** El papel de EFSA en el control de peligros en alimentos y su influencia en el Comercio Internacional.  
**Name of the conference:** XX Seminario Latinoamericano y del Caribe de Ciencias y Tecnología de Alimentos  
**Corresponding author:** Yes  
**City of event:** Panama, Panama  
**Date of event:** 07/03/2018  
**Organising entity:** ALACCTA  
Fernandez.
- 4** **Title of the work:** Use of frequency distribution functions to establish safe conditions in relation to the foodborne pathogen Bacillus cereus  
**Name of the conference:** 19th International Symposium on Food Micro 2004  
**City of event:** Portoroz,  
**Type of contribution:** Scientific paper  
Delgado, B; Periago, PM; Conesa, R; Palop, A; Fernandez, PS. "FOOD TECHNOLOGY AND BIOTECHNOLOGY". 43 - 2, pp. 195 - 200. 01/04/2005. ISSN 1330-9862



## Other achievements

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

- 1** **Entity:** Quadram Institute  
**City of entity:** Norwich, United Kingdom  
**Start-End date:** 01/07/2016 - 30/09/2016  
**Goals of the stay:** Guest  
**Provable tasks:** Translational microbiome  
**Type of entity:** R&D Centre  
**Duration:** 3 months
- 2** **Entity:** INSTITUTE OF FOOD RESEARCH  
**City of entity:** Norwich, United Kingdom  
**Start date:** 2012
- 3** **Entity:** INSTITUTE OF FOOD RESEARCH  
**City of entity:** Norwich, United Kingdom  
**Start date:** 2010
- 4** **Entity:** UNILEVER RESEARCH VLAARDINGEN  
**City of entity:** Vlaardingen,  
**Start date:** 2000
- 5** **Entity:** Institute of Food Research  
**City of entity:** Norwich,  
**Start date:** 1994
- 6** **Entity:** Torry Research Station  
**City of entity:** Aberdeen,  
**Start date:** 1993  
**Name of programme:** Estudio del efecto de diferentes factores medio ambientales (pH, estrés oxidativo y tratamiento térmico) en la supervivencia de *Listeria monocytogenes*
- 7** **Entity:** Universidad de Bristol  
**City of entity:** Bristol,  
**Start date:** 1992  
**Name of programme:** Realización de experiencias de calorimetría diferencial de barrido en esporas bacterianas y células vegetativas de interés en tecnología de alimentos.